





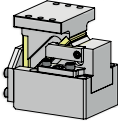
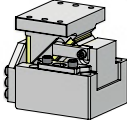
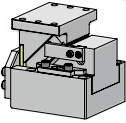
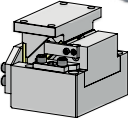
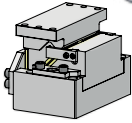
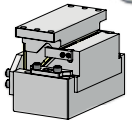
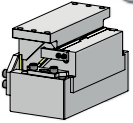
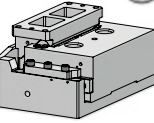






2016.00



OMCR®
STANDARD DIE COMPONENTS

<p>STANDARD DIE COMPONENTS</p>	<p>C11.09</p> <p>FCA - VW/AUDI</p> <p>Locating cone Kegeldistanz Cono di centraggio</p> <p>32</p>	<p>C11.11</p> <p>FCA - VW/AUDI</p> <p>Locating cone Kegeldistanz Cono di centraggio</p> <p>34</p>	<p>C11.40</p> <p>FCA-PSA-RENAULT</p> <p>Stamp retainer Halteplatte Portatimbrì</p> <p>38</p>	<p>C11.45</p> <p>FCA-PSA-RENAULT</p> <p>Backing plate Druckplatte Reazione</p> <p>39</p>	
	<p>C11.50</p> <p>FCA-PSA-RENAULT</p> <p>Stamp Buchstabenstempel Punzone marchio</p> <p>40</p>	<p>C11.51</p> <p>FCA - PSA - RENAULT</p> <p>Stamp Buchstabenstempel Punzone marchio</p> <p>41</p>	<p>C12.26</p> <p>VW/AUDI</p> <p>Balance block Distanzstück Distanziale</p> <p>50</p>	<p>C12.27</p> <p>VW/AUDI</p> <p>Balance block Distanzstück Distanziale</p> <p>54</p>	<p>C18.05</p> <p>VW/AUDI</p> <p>Anti-rebound slide stop Arretierung gegen Rückfederung Arresto anti rimbalzo</p> <p>94</p>
	<p>FORD WDX13-65 04040-04152-1</p> <p>Stop block Abstandsblock Distanziale</p> <p>261</p>	<p>MERCEDES-BENZ B8 0301 231 108 801</p> <p>Bush for lifting pin Buchse für Tragbolzen Boccola per perno di sollevamento</p> <p>310</p>	<p>OPEL F33040084÷0164</p> <p>Cam positive return follower Gleitstück Reazione ganci</p> <p>360</p>	<p>OPEL F33040305÷0320</p> <p>Wear plate Gleitplatte Piastra guida</p> <p>367</p>	<p>PSA E24.52.504.G</p> <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>409</p>
	<p>PSA E24.52.504.G</p> <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>410</p>	<p>PSA E24.56.200.G</p> <p>Gage for sensor Einweiser für Teilagekontrolle Riferimento per sensore</p> <p>418</p>	<p>RENAULT EM24.59.500/J</p> <p>Stamp Buchstabenstempel Punzone marchio</p> <p>446</p>	<p>RENAULT EM24.59.500/J</p> <p>Stamp Buchstabenstempel Punzone marchio</p> <p>447</p>	<p>VW-AUDI 39D 630</p> <p>Slide stop block Schieberranschlag Arresto slitta</p> <p>464</p>

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 <p>STANDARD DIE COMPONENTS</p>	DHC052	DHC065	DHC100	DHC150
				
	<p>Work Angle 0° Work Force 38 kN</p> <p>834</p>	<p>Work Angle 0°±20° Work Force 44÷48 kN</p> <p>838</p>	<p>Work Angle 0°±20° Work Force 75÷82 kN</p> <p>842</p>	<p>Work Angle 0°±20° Work Force 120÷127 kN</p> <p>846</p>
	DHC200	DHC250	DHC300	DHC400
				
<p>Work Angle 0° Work Force 176 kN</p> <p>850</p>	<p>Work Angle 0° Work Force 232 kN</p> <p>854</p>	<p>Work Angle 0° Work Force 272 kN</p> <p>858</p>	<p>Work Angle 0° Work Force 480 kN</p> <p>862</p>	
 <p>STANDARD DIE COMPONENTS</p>	E40.42	E50.06	E50.12	
				
	<p>VW-AUDI</p> <p>Wear plate Schieberführung Piastra guida</p> <p>996</p>	<p>VDI 3357</p> <p>Sintered steel wear plate Gleitplatte Stahl mit sintergleitfläche Piastra guida in acciaio sinterizzato</p> <p>1064</p>	<p>VDI 3357</p> <p>Sintered steel wear plate Gleitplatte Stahl mit sintergleitfläche Piastra guida in acciaio sinterizzato</p> <p>1066</p>	

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THE COMPANY - UNTERNEHMEN - L'AZIENDA

Ⓞ Almost 40 years ago **OMCR** started its activity on precision machining and since the origin “**the satisfaction of the customers**” is at the center of its attention. During those years, after several experiences in many fields of mechanics, **OMCR** specialized in the production of standard die components for automotive sector, becoming step by step, a point of reference for all the most important die builders. The quality is the leading thread of all **OMCR** activities: competence, engineering, flexible production systems, careful organization, responsibility are the hinges of the offered service. Our greatest strength is the passion that we put at disposal of our customers and with whom we dedicate ourselves daily to solve their problems and fulfill their needs. **OMCR, a partner that makes you competitive.**

Ⓞ Vor fast 40 Jahren wurde die Firma **OMCR** als Werkstatt für mechanische Bearbeitungen und Präzisionsarbeiten aller Art gegründet. Von Anfang an steht die **Zufriedenheit der Kunden** im Mittelpunkt. Nach umfangreichen Erfahrungen in diversen Bereichen der Mechanik spezialisiert sich die Firma OMCR im Laufe der Zeit auf die Herstellung von Normalien für Großwerkzeuge nach Automobilherstellernorm und wird nach und nach zu einem Referenzpunkt für alle wichtigen Werkzeugbauer. Die Qualität steht im Zentrum aller Aktivitäten von OMCR: Kompetenz, Engineering, flexible Herstellungssysteme, akkurate Organisation und Verantwortung sind die Basis der Serviceleistungen von **OMCR**. Unsere größte Stärke ist das Engagement, mit dem wir unseren Kunden zur Verfügung stehen und mit dem wir uns täglich der Lösung der Probleme unserer Kunden widmen, um all Ihre Bedürfnisse abzudecken. **OMCR, ein Partner der Sie wettbewerbsfähig macht.**

Ⓞ Quasi 40 anni fa **OMCR** iniziò la sua attività di lavorazioni meccaniche di precisione e fin dalle origini pose al centro delle sue attenzioni “**la soddisfazione del cliente**”. Dopo aver maturato innumerevoli esperienze in svariati settori della meccanica nel corso degli anni la **OMCR** si specializza nella produzione di normalizzati per stampi in lamiera per l'automotive, diventando progressivamente un punto di riferimento per tutti i più importanti costruttori di stampi. La qualità è il filo conduttore di tutte le attività **OMCR**: competenza, engineering, sistemi di produzione flessibili, organizzazione accurata e responsabilità, sono i cardini del servizio offerto. La nostra forza maggiore è la passione che mettiamo a disposizione dei nostri clienti e con la quale ci dedichiamo quotidianamente a risolvere i loro problemi ed adempiere alle loro necessità. **OMCR, un partner che Vi rende competitivi.**

“Your partner”



Domenico Zentilin
OMCR General Manager



THE COMPANY - UNTERNEHMEN - L'AZIENDA

CAD Design
 CAD Konstruktion
 Progettazione CAD



Flexible manufacturing systems
 Flexibles Fertigungssystem
 Isole di lavoro automatizzate



Leading edge 5-axis machining center
 5-Achs-Bearbeitungsmaschinen
 der neuesten Generation
 Macchine a 5 assi di ultima generazione



Measurement room
 Messraum
 Sala metrologica



Warehouse and shipping
 Lager und Versand
 Magazzino e spedizione



GUIDE PRINCIPLES - LEITPRINZIPIEN - PRINCIPI GUIDA



SERVICE - SERVICE - SERVIZIO

1. Care about customer needs - Augenmerk auf die Anforderungen des Kunden - Attenzione alle necessità del cliente
2. Product customization - Personalisierung der Produkte - Personalizzazione dei prodotti
3. Flexibility in action and production - Flexibilität bei der Ausführung bzw. der Herstellung - Flessibilità d'azione e di produzione
4. Reliability in supplying - Zuverlässigkeit bei der Lieferung - Affidabilità delle forniture nel tempo



COMPETENCE - KOMPETENZ - COMPETENZA

1. Employees competence - Professionalität der Mitarbeiter - Professionalità dei dipendenti
2. Technical and design analysis - Projektanalyse - Analisi del progetto
3. Product analysis - Produktanalyse - Analisi del prodotto
4. Production experience - Erfahrung in der Produktion - Esperienza produttiva



QUALITY - QUALITÄT - QUALITÀ

1. Company organisation - Firmenorganisation - Organizzazione aziendale
2. Continuous improvement - ständige Verbesserung - Miglioramento continuo
3. Accurate inspection - genaue Prüfung - Ispezione accurata



INNOVATION - INNOVATIONEN - INNOVAZIONE

1. Research and product development - kontinuierliche Forschung und Entwicklung der Produkte - Costante ricerca e sviluppo del prodotto
2. Widespread use of IT tools - Einsatz neuester EDV-Systeme - Diffuso utilizzo di strumenti informatici
3. Use of advanced machines and production systems - Einsatz hochmoderner Produktionsmaschinen und -systeme - Utilizzo di macchine e sistemi di produzione all'avanguardia



ETHICS - ETHIK - ETICA

1. Responsibility to customers, internal and external partners and territory - Verantwortung gegenüber Kunden, Mitarbeiter und Umwelt - Responsabilità verso clienti, collaboratori e territorio
2. Environmental care - Umweltbewusstsein - Attenzione all'ambiente
3. Social commitment - soziales Engagement - Impegno sociale



PAGE ORGANIZATION LEGENDE ORGANIZZAZIONE PAGINE

Article Nr./reference of specification
 Artikelnummer oder Referenznorm
 Codice articolo o norma di riferimento

01

Order example
 Bestellbeispiel
 Esempio d'ordine

02

Material information
 Materialinformationen
 Informazioni sui materiali

03

Informations
 Informationen
 Informazioni

04

Application example
 Einbaubeispiele
 Esempio di applicazione

05

Item description
 Artikelbeschreibung
 Descrizione articolo

06

Warning/technical information
 Technische Hinweise oder Informationen
 Avvertenze o informazioni tecniche

07

Technical - dimension table
 Tabelle techn. Angaben und Maße
 Tabella tecnico - dimensionale

08

SYMBOLGY SYMBOLIK SIMBOLOGIA

Product available on stock
 Produkt auf Lager
 Prodotto disponibile a magazzino



Prices and delivery time on request
 Preis und Lieferzeit auf Anfrage
 Prezzi e tempi di consegna a richiesta



Delivery time in working days from ordering date
 Lieferzeit in Werktagen ab Bestelldatum
 Giorni lavorativi per spedizione dalla data d'ordine



Item supplied with shown parts
 Artikel setzt sich aus den angegebenen
 Teilen zusammen
 Articolo fornito con i particolari indicati



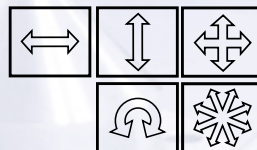
Ordering code
 Bestellnummer
 Codice d'ordine



Pay attention to this point!
 Wir weisen besonders auf diesen Punkt hin
 Attenzione a questa nota



Sliding direction
 Gleitrichtung
 Senso di scorrimento



Obtained from press-forged
 Geschmiedet
 Particolare ricavato da stampato



CAD files available on our website
 CAD-Datei auf unserer Webseite
 File CAD disponibili sul nostro sito web



Technical infos available on our website
 Technische Informationen auf unserer Webseite
 Info disponibili sul nostro sito web



CE manual available on our website
 CE Betriebsanleitungen auf unserer
 Internetseite verfügbar
 Manuali CE disponibili sul nostro sito web



01

05

C10.11

www.omcr.it

06

07

03

Notes

- 1** Material: CK60
HRC: 50-55
- 2** Material: S137

Application example

04

02

ORDER CODE	Art.	L=180
C10.11.	180	

OMCR CODE	A	L	L1	L2
C10.11.120	120	120	56	70
C10.11.150	120	150	56	70
C10.11.180	124	180	107	120
C10.11.250	124	250	107	120

08

24

GB DOWNLOAD CAM DATA

On www.omcr.it you can find, besides **CAD 3D** (IGES, STEP, CATIA V5, UNIGRAPHICS) data, technical specific informations, **use and maintenance manuals** of Lifting Elements complete of **EC conformity declaration** and the **catalogue in PDF format**.

D DOWNLOAD SCHIEBERDATEN

Auf www.omcr.it finden Sie abgesehen von den **3D CAD Daten** (IGES, STEP, CATIA V5, UNIGRAPHICS) auch spezifische technische Informationen, die **Betriebs- und Instandhaltungsanleitung** der **Tragelemente mit CE Konformitätserklärung**, unseren **Katalog als pdf-Datei** und Eine Suchmaschine.

I DOWNLOAD DATI CAMME

Su www.omcr.it è possibile trovare, oltre ai **dati CAD 3D** (IGES, STEP, CATIA V5, UNIGRAPHICS), informazioni tecniche specifiche, i **manuali di uso e manutenzione** degli Elementi di Sollevamento completi di **dichiarazione di conformità CE** e il **catalogo digitale in formato PDF**.



Catalog - CAD files - Technical infos - CE Manual

Katalog - CAD Daten - Technische Informationen - Manuali CE

Cataloghi - Dati CAD - Info tecniche - Manuali CE



Download from our web-site all the information about OMCR Cam Units.

Alle Informationen über Schieber von OMCR können Sie von unserer Internetseite downloaden.

Scarica dal nostro sito web tutte le informazioni sulle Unità a Camme OMCR.

GB CAM SEARCH

By consulting the search engine on our website, you can choose the most suitable cam units for any type of project through information about **forces, price** and **delivery times**.

D SCHIEBERSUCHE

Über die Suchmaschine auf unserer Internetseite können Sie den für das jeweilige Projekt am besten geeigneten Schieber anhand von Informationen zu **Kraft, Preis** und **Lieferzeit** auswählen.

I RICERCA CAMME

Consultando il motore di ricerca sul nostro sito, puoi scegliere l'unità a camma più adatta ad ogni tipo di progetto attraverso informazioni di **forza, prezzo** e **tempi di consegna**.



Visit the Cam Search page on our website.

Bitte gehen Sie auf unsere Internetseite und klicken Sie auf „Schiebersuche“.

Visita la pagina Ricerca Camme sul nostro sito web.

- Ⓒ **PDF catalog** for online consultation, always up to date.
- Ⓓ Den **Katalog als PDF-Datei** zum herunterladen oder online konsultieren.
- Ⓘ Il **catalogo in versione PDF** consultabile online e periodicamente aggiornato.



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OMCR®

STANDARD DIE COMPONENTS



**DIE COMPONENTS
NORMALIEN
COMPONENTI PER STAMPI**

Die components

Ⓞ **OMCR** die components line offers an extraordinary variety of items according to the norms of the main automotive firms. Thanks to the widespread use of computerized management systems, to the flexible productions systems and to the wide availability of items in our stock, this range of products faces exhaustively customers needs and it ensures quality, reliability and quick delivery.

In this **Die Components** range we propose **OMCR Standard** series, result of a selection that has allowed us to identify the ideal standard items for an efficient design of sheet metal dies.

Ⓞ Die Linie der **Werkzeugkomponenten** bietet eine außergewöhnliche Vielfalt an Artikeln, die den Normen der europäischen Automobilhersteller entsprechen. Dank der EDV-gestützten Steuerung des Unternehmens, flexibler Produktionssysteme und durch einen großen Bestand an fertigen Produkten im Lager deckt diese Produktreihe den Bedarf der Kunden in vollem Umfang ab und gewährleistet Qualität, Zuverlässigkeit und schnelle Lieferung.

Unsere **Werkzeugkomponenten** beinhalten auch die Serie **Standard OMCR**, eine Auswahl an Normalien zur effizienten Konstruktion von Stanzwerkzeugen.

Ⓞ La linea **Componenti per Stampi** offre una straordinaria varietà di articoli, conformi alle normative delle principali case automobilistiche. Grazie al diffuso utilizzo di sistemi informatici di gestione, di sistemi di produzione flessibili e all'ampia disponibilità di prodotti pronti a magazzino, questa gamma di prodotti risponde in modo esauriente alle necessità dei clienti e garantisce qualità, affidabilità e rapidità nelle consegne.

All'interno della linea **Componenti per Stampi**, proponiamo la serie **Standard OMCR**, frutto di una selezione che ha permesso di individuare i normalizzati ideali per un'efficiente progettazione di stampi lavorazione lamiera.





Norms: BMW - MERCEDES BENZ - FCA
FORD - OPEL - PSA - RENAULT - VW/AUDI - VOLVO

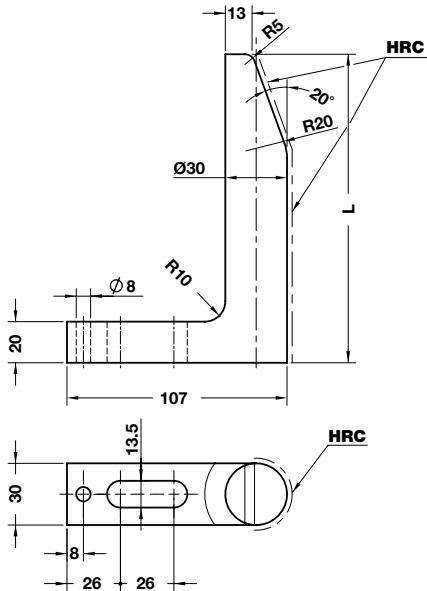
<p>C10.09</p> 	<p>C10.10</p> 	<p>C10.11</p> 	<p>C10.12</p> 	<p>C10.13</p> 
<p>BMW-MERCEDES-BENZ- FCA-FORD-OPEL-VW/AUDI</p>	<p>BMW-MERCEDES-BENZ- FCA-FORD-OPEL-VW/AUDI</p>			<p>MERCEDES-BENZ</p>
<p>Gage hardened Einweiser gehärtet Riferimento indurito</p>	<p>Gage Einweiser Riferimento</p>	<p>Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore</p>	<p>Gage Einweiser Riferimento</p>	<p>Gage hardened Einweiser gehärtet Riferimento indurito</p>
<p>20</p>	<p>21</p>	<p>22</p>	<p>23</p>	<p>24</p>
<p>C10.14</p> 	<p>C10.15</p> 	<p>C10.16</p> 	<p>C10.20</p> 	<p>C10.25</p> 
<p>MERCEDES-BENZ</p>	<p>BMW - FCA</p>	<p>VW/AUDI</p>	<p>FCA - OPEL</p>	<p>VW/AUDI</p>
<p>Gage Einweiser Riferimento</p>	<p>Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore</p>	<p>Gage Feineinweiser Riferimento di precisione</p>	<p>Front gage Einlaufanschlag Portasensore</p>	<p>Support for sensor Lagekontrolle für Platinen Supporto sensore</p>
<p>24</p>	<p>25</p>	<p>26</p>	<p>27</p>	<p>28</p>
<p>C10.90</p> 	<p>C10.91</p> 	<p>C11.09</p> 	<p>C11.11</p> 	<p>C11.12</p> 
<p>Sensor Induktive sensor Sensore</p>	<p>Connector Steckverbinder Connettore</p>	<p>FCA - VW/AUDI</p>	<p>FCA - VW/AUDI</p>	<p>FCA</p>
<p>29</p>	<p>30</p>	<p>Locating cone Kegeldistanz Cono di centraggio</p>	<p>Locating cone Kegeldistanz Cono di centraggio</p>	<p>Locating pin Zentrierbolzen Perno di centraggio</p>
<p>29</p>	<p>30</p>	<p>32</p>	<p>34</p>	<p>36</p>
<p>C11.20</p> 	<p>C11.30</p> 	<p>C11.40</p> 	<p>C11.45</p> 	<p>C11.50</p> 
<p>BMW - VW/AUDI</p>	<p>VW/AUDI</p>	<p>FCA-PSA-RENAULT</p>	<p>FCA-PSA-RENAULT</p>	<p>FCA-PSA-RENAULT</p>
<p>Locating pin Zentrierbolzen Perno di centraggio</p>	<p>Visual locator setting punch Endkontrollstempel Punzone di visualizzazione</p>	<p>Stamp retainer Halteplatte Portatimbri</p>	<p>Backing plate Druckplatte Reazione</p>	<p>Stamp Buchstabenstempel Punzone marchio</p>
<p>36</p>	<p>37</p>	<p>38</p>	<p>39</p>	<p>40</p>

<p>C11.51</p> 	<p>C12.10.?</p> 	<p>C12.11.?</p> 	<p>C12.12.?</p> 	<p>C12.16</p> 
<p>FCA - PSA - RENAULT</p>	<p>BMW - FORD - OPEL</p>	<p>VW/AUDI</p>	<p>BMW - MERCEDES BENZ</p>	<p>BMW VW/AUDI</p>
<p>Stamp Buchstabenstempel Punzone marchio</p>	<p>Air pin Druckbolzen Candela</p>	<p>Air pin Unterluftbolzen Candela</p>	<p>Air pin Unterluftbolzen Candela</p>	<p>Spacer plate toothed Distanzplatte gezahnt Tassello di compensazione</p>
<p>41</p>	<p>42</p>	<p>43</p>	<p>44</p>	<p>45</p>
<p>C12.20</p> 	<p>C12.21</p> 	<p>C12.22</p> 	<p>C12.23</p> 	<p>C12.25</p> 
<p>FCA</p>		<p>OPEL</p>		<p>FORD</p>
<p>Compensation block Abstandsblok Tassello di compensazione</p>	<p>Shim Ausgleichs Scheib Spessore</p>	<p>Pressure plate Druckplatte Piastra di reazione</p>	<p>Pressure plate Druckplatte Piastra di reazione</p>	<p>Balance block Distanzstück Distanziale</p>
<p>46</p>	<p>46</p>	<p>47</p>	<p>47</p>	<p>48</p>
<p>C12.26</p> 	<p>C12.26.?</p> 	<p>C12.27</p> 	<p>C12.27.?</p> 	<p>C12.30.?</p> 
<p>VW/AUDI</p>	<p>VW/AUDI</p>	<p>VW/AUDI</p>	<p>VW/AUDI</p>	<p>VW/AUDI</p>
<p>Balance block Distanzstück Distanziale</p>	<p>Balance block Distanzstück Distanziale</p>	<p>Balance block Distanzstück Distanziale</p>	<p>Balance block Distanzstück Distanziale</p>	<p>Spacing bar Abstellbolzen Distanziale</p>
<p>50</p>	<p>52</p>	<p>54</p>	<p>56</p>	<p>58</p>
<p>C13.10</p> 	<p>C13.11</p> 	<p>C13.20.?</p> 	<p>C13.24</p> 	<p>C13.25.?</p> 
<p>VW/AUDI</p>	<p>VW/AUDI</p>	<p>FCA - FORD</p>		
<p>Pad retainer pin VDI 3365 Steckbolzen VDI 3365 Perno di arresto VDI 3365</p>	<p>Pad retainer pin VDI 3365 Steckbolzen VDI 3365 Perno di arresto VDI 3365</p>	<p>Retainer bolt Zugbolzensatz Gruppo tirante</p>	<p>Ground collar screw Schraube mit Distanzrohr Vite con colletto</p>	<p>Pad retainer Zugbolzensatz Gruppo tirante</p>
<p>59</p>	<p>60</p>	<p>61</p>	<p>62</p>	<p>64</p>

C13.26.?	C13.30	C14.09	C14.10	C14.11
FORD		VW/AUDI	FCA	FORD
Pad retainer Zugbolzensatz Gruppo tirante	Collar screw Schulter-passschraube Vite con colletto	Key Passfeder Chiavetta di reazione	Key Passfeder Chiavetta di reazione	Retainer Haltestück Ritegno per matrice
64	65	66	67	67
C14.20	C15.10	C15.11	C15.12	C15.13
	FCA	FCA	FCA	VW/AUDI
Key Passfeder Chiavetta di reazione	Clamp Befestigungselement Morsetto	Sleeve Führungseinheit Canotto guida	Guide post Führungssaule Colonna	Union nut Befestigungselemen Dado di unione
68	69	69	70	71
C15.14	C15.15	C16.19	C16.20	C16.21
			VW/AUDI	FCA
Air coupling bracket Luftanschlussbock Supporto innesti rapidi	Flux control Verteilerblock Regolatore di flusso	Roller Rolle Rotella	Roller stock lifter Federnde laufrolle Rullino sollevamento nastro	Roller group Förderrolle Gruppo rullini
72	73	74	75	76
C16.25	C16.26	C16.27	C16.30	C16.31
	FCA	BMW - MERCEDES-BENZ		
Coil support Abstreifer Sollevatore nastro	Ball caster Kugelrollensystem Sfera portante	Coil guide roller Führungsrulle Guida nastro	Flange lifter Abstreifer Sflangiatore	Flange lifter Abstreifer Sflangiatore
77	78	79	80	81

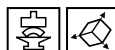
<p>C16.40</p> 	<p>C16.45</p> 	<p>C16.50</p> 	<p>C17.10</p> 	<p>C17.20</p> 
<p>FCA</p>		<p>VW/AUDI</p>	<p>FCA</p>	<p>FCA</p>
<p>Spring plunger Federne druckstücke Espulsore a molla</p>	<p>Spring plunger Federne druckstücke Espulsore a molla</p>	<p>Spring rams Federbolzen Sollevatore</p>	<p>Elastomer spring Elastomerfeder Molla in elastomero</p>	<p>Elastomer cap Elastomerdruckstück Puntalino in elastomero</p>
<p>82</p>	<p>83</p>	<p>84</p>	<p>85</p>	<p>88</p>
<p>C17.21</p> 	<p>C17.30</p> 	<p>C17.31</p> 	<p>C17.32</p> 	<p>C17.40</p> 
<p>OPEL</p>	<p>FCA</p>			<p>FCA - VW/AUDI</p>
<p>Shock absorber Halteelement Ammortizzatore</p>	<p>Elastomer spring pin Aufnahmebolzen Perno per molle</p>	<p>Washer for elastomer spring Federscheibe Rondella per molle in elastomero</p>	<p>Column DIN 9835 Führungsbolzen DIN 9835 Colonna di guida DIN 9835</p>	<p>Stripper for blanking dies Abstreifer für Platinenschnitte Estrattore per stampi</p>
<p>88</p>	<p>89</p>	<p>90</p>	<p>91</p>	<p>92</p>
<p>C18.05</p> 	<p>C18.10</p> 	<p>C18.11</p> 	<p>C18.20.?</p> 	<p>C18.21</p> 
<p>VW/AUDI</p>	<p>FCA</p>	<p>VW/AUDI</p>	<p>FCA</p>	
<p>Anti-rebound slide stop Arretierung gegen Rückfederung Arresto anti rimbalzo</p>	<p>Slide stop block Schieberanschlag Arresto slitta</p>	<p>Slide stop block Schieberanschlag Arresto slitta</p>	<p>Positive return plate Zwangsrückholer Gancio di sicurezza</p>	<p>Key Passfeder Chiavetta</p>
<p>94</p>	<p>95</p>	<p>95</p>	<p>96</p>	<p>97</p>
<p>C18.25</p> 	<p>C18.30</p> 	<p>C18.31</p> 		
	<p>FORD</p>	<p>FCA</p>		
<p>Cam blank-holder guide Gleitplatte für Schieber Guida per premilamiera</p>	<p>Coupling plate Befestigungsplatte Staffa di reazione</p>	<p>Coupling nut Kupplungsmutter Aggancio staffa</p>		
<p>98</p>	<p>99</p>	<p>99</p>		

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO

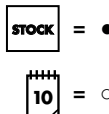


Notes

Material: CK60 - HRC: 56÷60



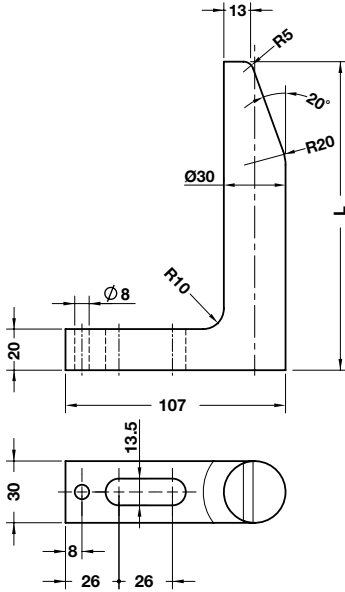
Delivery time
Lieferzeit in Werktagen
Tempi di spedizione



Art.	L=70
C10.09.	070

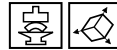
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C10.09.065	65	●	C10.09.145	145	○	C10.09.225	225	○
C10.09.070	70	○	C10.09.150	150	●	C10.09.230	230	○
C10.09.075	75	○	C10.09.155	155	○	C10.09.235	235	○
C10.09.080	80	○	C10.09.160	160	○	C10.09.240	240	○
C10.09.085	85	○	C10.09.165	165	○	C10.09.245	245	○
C10.09.090	90	●	C10.09.170	170	○	C10.09.250	250	●
C10.09.095	95	○	C10.09.175	175	○	C10.09.260	260	○
C10.09.100	100	○	C10.09.180	180	●	C10.09.270	270	○
C10.09.105	105	○	C10.09.185	185	○	C10.09.280	280	○
C10.09.110	110	○	C10.09.190	190	○	C10.09.290	290	○
C10.09.115	115	○	C10.09.195	195	○	C10.09.300	300	●
C10.09.120	120	●	C10.09.200	200	○	C10.09.310	310	○
C10.09.125	125	○	C10.09.205	205	○	C10.09.320	320	○
C10.09.130	130	○	C10.09.210	210	○	C10.09.330	330	○
C10.09.135	135	○	C10.09.215	215	○	C10.09.340	340	○
C10.09.140	140	○	C10.09.220	220	○	C10.09.350	350	●

GAGE - EINWEISER - RIFERIMENTO



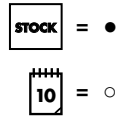
Notes

Material: CK60



Standard OMCR

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione



Art.	L=70
C10.10.	070

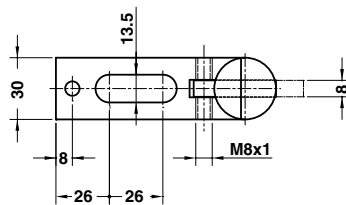
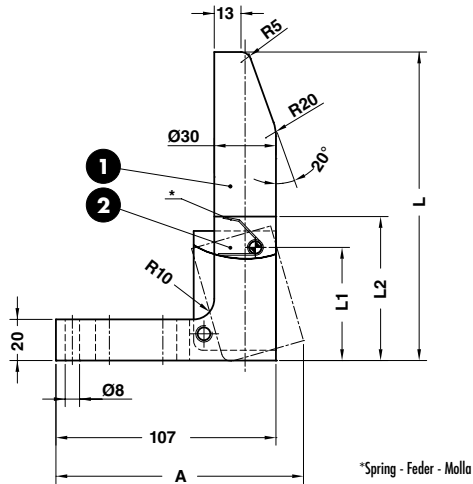
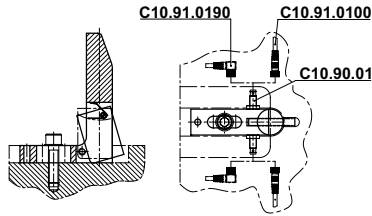
OMCR CODE	L	Delivery Time	OMCR CODE	L	Delivery Time	OMCR CODE	L	Delivery Time
C10.10.065	65	●	C10.10.145	145	○	C10.10.225	225	○
C10.10.070	70	○	C10.10.150	150	●	C10.10.230	230	○
C10.10.075	75	○	C10.10.155	155	○	C10.10.235	235	○
C10.10.080	80	○	C10.10.160	160	○	C10.10.240	240	○
C10.10.085	85	○	C10.10.165	165	○	C10.10.245	245	○
C10.10.090	90	●	C10.10.170	170	○	C10.10.250	250	●
C10.10.095	95	○	C10.10.175	175	○	C10.10.260	260	○
C10.10.100	100	○	C10.10.180	180	●	C10.10.270	270	○
C10.10.105	105	○	C10.10.185	185	○	C10.10.280	280	○
C10.10.110	110	○	C10.10.190	190	○	C10.10.290	290	○
C10.10.115	115	○	C10.10.195	195	○	C10.10.300	300	●
C10.10.120	120	●	C10.10.200	200	○	C10.10.310	310	○
C10.10.125	125	○	C10.10.205	205	○	C10.10.320	320	○
C10.10.130	130	○	C10.10.210	210	○	C10.10.330	330	○
C10.10.135	135	○	C10.10.215	215	○	C10.10.340	340	○
C10.10.140	140	○	C10.10.220	220	○	C10.10.350	350	●

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

Notes

- 1** Material: CK60
HRC: 50÷55
- 2** Material: Si37

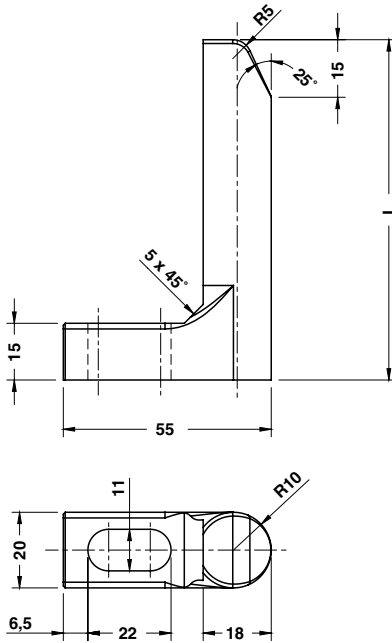
Application example



	Art.	L=180
	C10.11.	180

OMCR CODE	A	L	L1	L2
C10.11.120	120	120	56	70
C10.11.150	120	150	56	70
C10.11.180	124	180	107	120
C10.11.250	124	250	107	120

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK45

ORDER EXAMPLE	Art.	L=90
	C10.12.	090

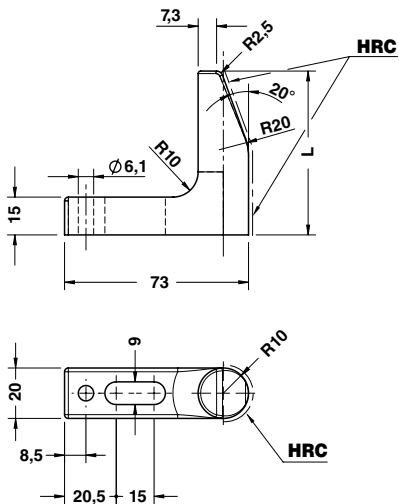
OMCR CODE	L
C10.12.055	55
C10.12.065	65
C10.12.090	90
C10.12.095	95
C10.12.120	120

Standard OMCR

C10.13



GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - HRC: 58÷60



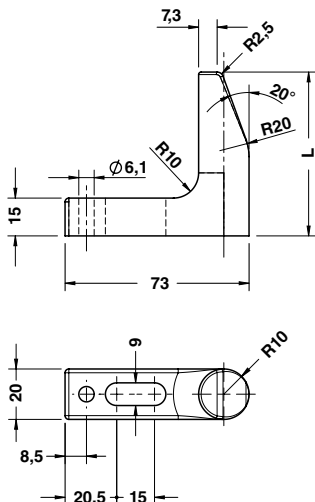
Art.	L=65
C10.13.	065

OMCR CODE	L
C10.13.065	65
C10.13.090	90

C10.14



GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60



Art.	L=65
C10.14.	065

OMCR CODE	L
C10.14.065	65
C10.14.090	90

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

Notes

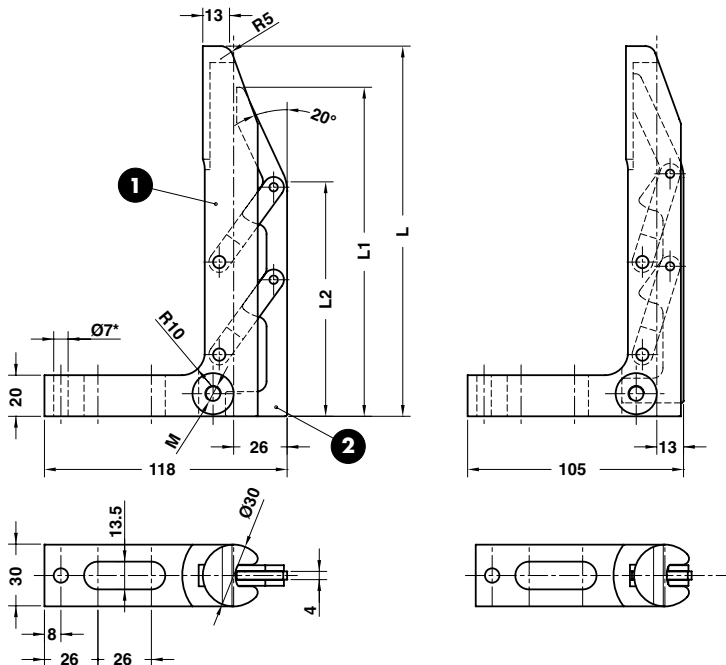
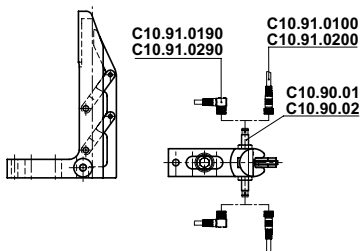
1

Material: CK60

2

Material: Si37 - HRC: 58÷60

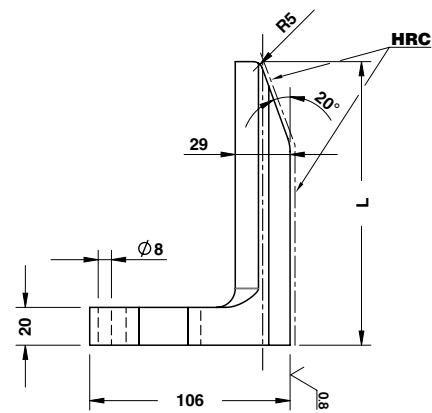
Application example



Art.	L=120	L1=113	M=8x1
C10.15.	120	113	8

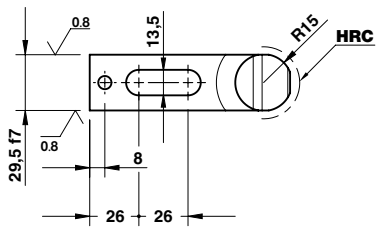
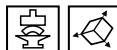
OMCR CODE	L	L1	L2	M
C10.15.12011308	120	113	78	8x1
C10.15.12011312	120	113	78	12x1
C10.15.15013008	150	130	90	8x1
C10.15.15013012	150	130	90	12x1
C10.15.18016008	180	160	114	8x1
C10.15.18016012	180	160	114	12x1
C10.15.25016008	250	160	114	8x1
C10.15.25016012	250	160	114	12x1
C10.15.25023008	250	230	184	8x1
C10.15.25023012	250	230	184	12x1

PRECISION GAGE - FEINENWEISER - RIFERIMENTO DI PRECISIONE

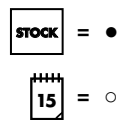


Notes

Material: CK60 - HRC: 58÷60



Delivery time
Lieferzeit in Werktagen
Tempi di spedizione



Art.	L=70
C10.16.	070

OMCR CODE	L	Delivery Time	OMCR CODE	L	Delivery Time	OMCR CODE	L	Delivery Time
C10.16.065	65	●	C10.16.145	145	○	C10.16.225	225	○
C10.16.070	70	○	C10.16.150	150	●	C10.16.230	230	○
C10.16.075	75	○	C10.16.155	155	○	C10.16.235	235	○
C10.16.080	80	○	C10.16.160	160	○	C10.16.240	240	○
C10.16.085	85	○	C10.16.165	165	○	C10.16.245	245	○
C10.16.090	90	●	C10.16.170	170	○	C10.16.250	250	●
C10.16.095	95	○	C10.16.175	175	○	C10.16.260	260	○
C10.16.100	100	○	C10.16.180	180	●	C10.16.270	270	○
C10.16.105	105	○	C10.16.185	185	○	C10.16.280	280	○
C10.16.110	110	○	C10.16.190	190	○	C10.16.290	290	○
C10.16.115	115	○	C10.16.195	195	○	C10.16.300	300	●
C10.16.120	120	●	C10.16.200	200	○	C10.16.310	310	○
C10.16.125	125	○	C10.16.205	205	○	C10.16.320	320	○
C10.16.130	130	○	C10.16.210	210	○	C10.16.330	330	○
C10.16.135	135	○	C10.16.215	215	○	C10.16.340	340	○
C10.16.140	140	○	C10.16.220	220	○	C10.16.350	350	●

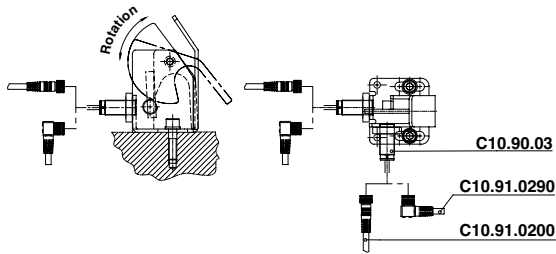


FRONT GAGE - EINLAUFANSLAG - PORTASENSORE

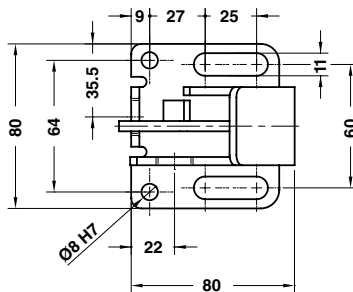
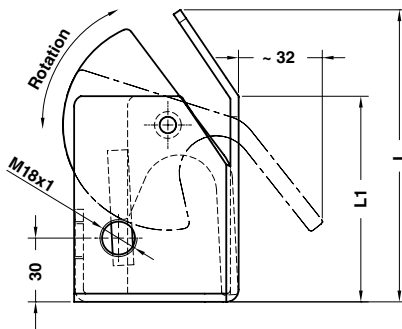
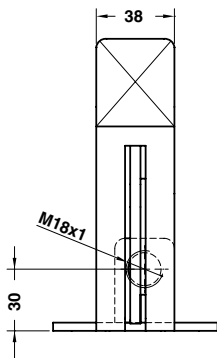
Notes

Material: St37

Application example




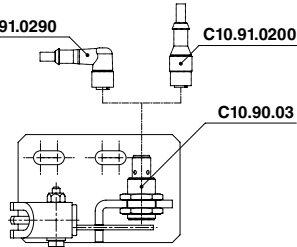
Standard OMCR

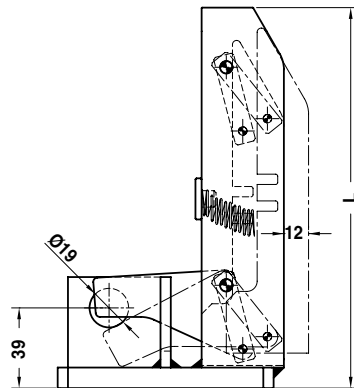
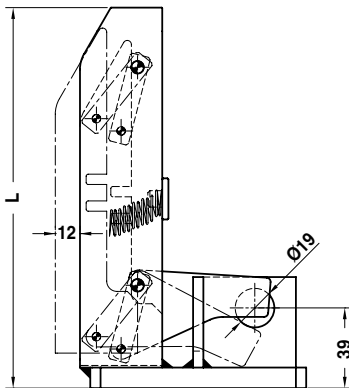


Art.	L=142
C10.20.	142

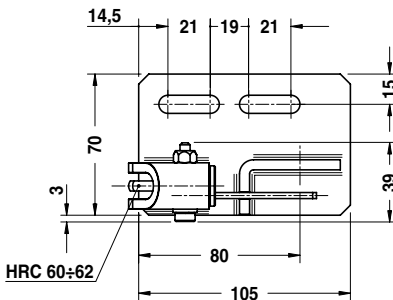
OMCR CODE	L	L1
C10.20.117	117	75
C10.20.142	142	100
C10.20.192	192	150

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE

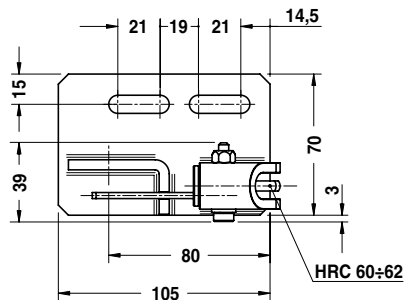
Notes	Application example	
Material: Steel		



"FORM A"



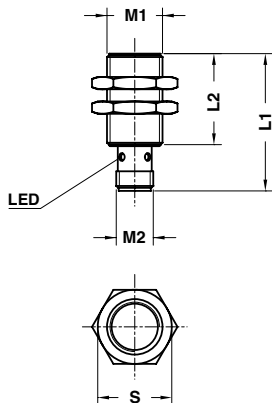
"FORM B"



Art.	TYPE
C10.25.	01

OMCR CODE	TYPE	L	FORM
C10.25.01	01	145	A
C10.25.02	02	145	B
C10.25.03	03	185	A
C10.25.04	04	185	B
C10.25.25	25	225	A
C10.25.26	26	225	B

SENSOR - INDUKTIVE SENSOR - SENSORE



Notes

Manufactured by
 Hersteller - Costruttore: **BALLUFF**

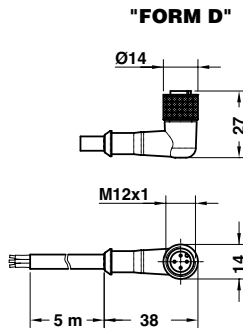
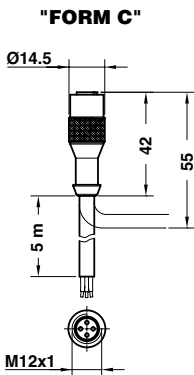
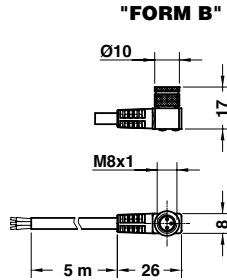
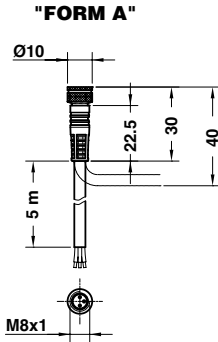
Standard OMCR

ORDER EXAMPLE	Art.
	C10.90.01

OMCR CODE	L1	L2	M1	M2	S
C10.90.01	30	23,5	M8x1	M8x1	13
C10.90.02	45	30	M12x1	M12x1	17
C10.90.03	44,5	29,5	M18x1	M12x1	24

TECHNICAL DATA	C10.90.01	C10.90.02	C10.90.03
1 Rated operational voltage (Ue)	24 V DC	24 V DC	24 V DC
2 Supply voltage (Ub)	10...30 V DC	10...30 V DC	10...30 V DC
3 No load supply current (I _{o max.})	≤ 8 mA	≤ 10 mA	≤ 8 mA
4 Off state current (I _r)	≤ 10 μA	≤ 50 μA	≤ 50 μA
5 Repeat accuracy (R)	≤ 5 %	≤ 5 %	≤ 5 %
6 Ambient temperature range (T _a)	-25...+70° C	-25...+85° C	-25...+70° C
7 Frequency of operating cycles (f)	3000 Hz	2000 Hz	1000 Hz
8 Degree of protection per IEC 60529	IP 67	IP 68	IP 67
9 Housing material	Stainless Steel	Stainless Steel	CuZn, Nickel plated
10 Connection	Connector	Connector	Connector
11 Approval	UL	UL	UL

CONNECTOR - STECKVERBINDER - CONNETTORE



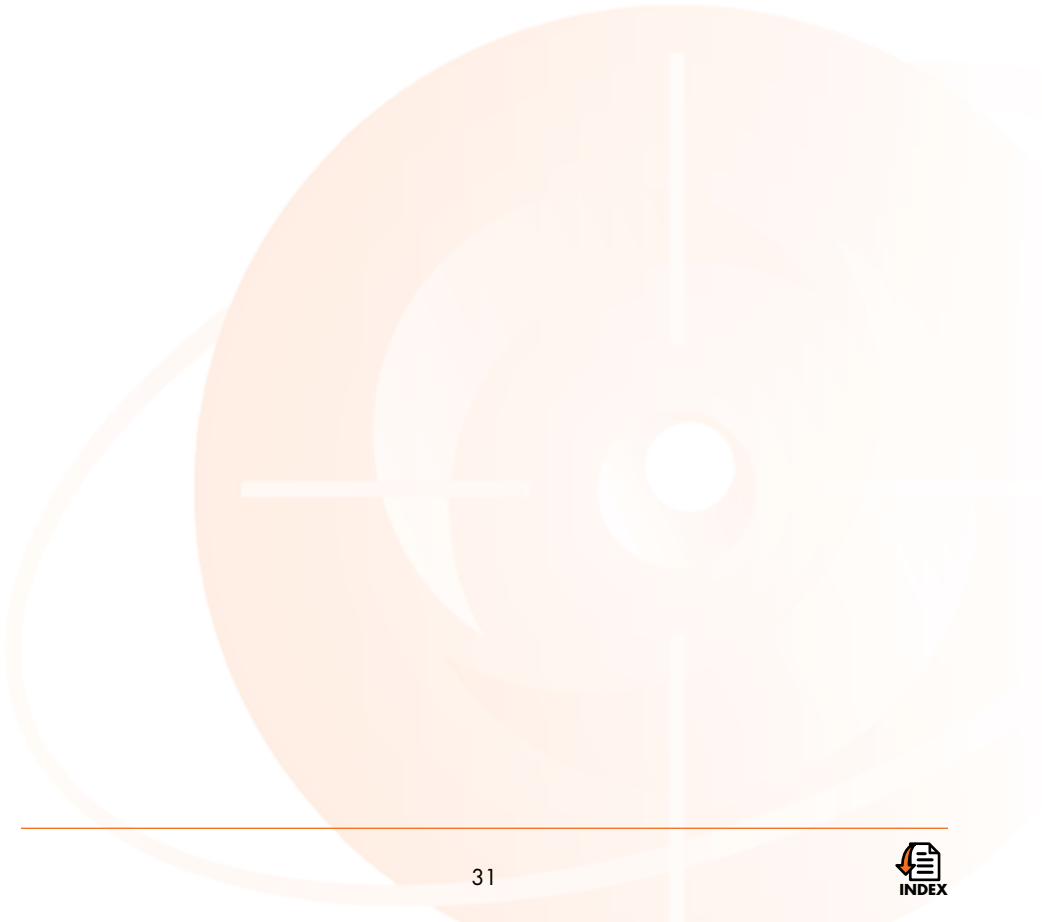
Notes

Manufactured by
 Hersteller - Costruttore: **BALLUFF**

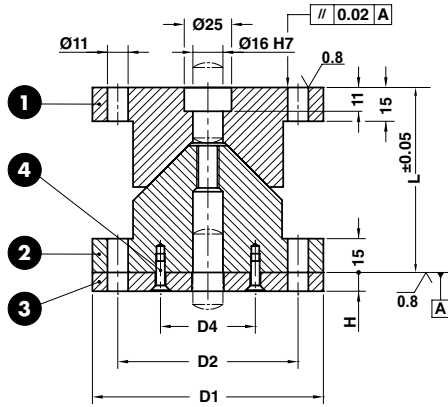


Art.
C10.91.0190

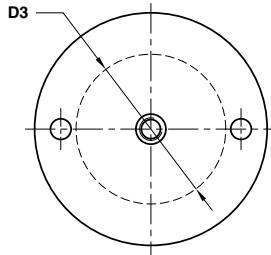
OMCR CODE	FORM
C10.91.0100	A
C10.91.0190	B
C10.91.0200	C
C10.91.0290	D



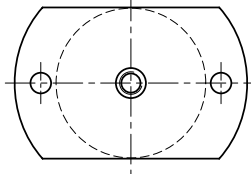
LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



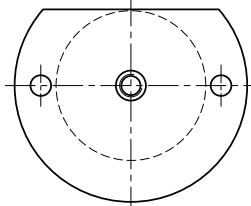
FORM A



FORM B



FORM C



LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO

Notes

- 1 2** Material: 16MnCr5 - HRC: 60÷62
- 3** Material: CK45
- 4** M5x16 DIN 7991

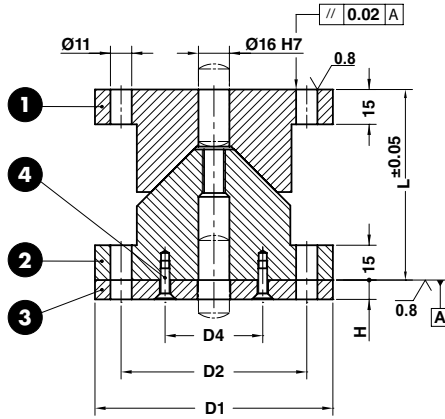


Standard OMCR

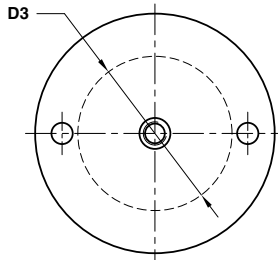
ORDER EXAMPLE	Art.	D1=100	L=80	FORM	TYPE
		C11.09.	100	80	B

OMCR CODE	D1	D2	D3	D4	L	H	FORM	TYPE
C11.09.10080A00	100	76	58	40,5	80	10,5	A	00
C11.09.10080A01	100	76	58	40,5	80	10	A	01
C11.09.10080B00	100	76	58	40,5	80	10,5	B	00
C11.09.10080B01	100	76	58	40,5	80	10	B	01
C11.09.10080C00	100	76	58	40,5	80	10,5	C	00
C11.09.10080C01	100	76	58	40,5	80	10	C	01
C11.09.12090A00	120	96	78	50,5	90	10,5	A	00
C11.09.12090A01	120	96	78	50,5	90	10	A	01
C11.09.12090B00	120	96	78	50,5	90	10,5	B	00
C11.09.12090B01	120	96	78	50,5	90	10	B	01
C11.09.12090C00	120	96	78	50,5	90	10,5	C	00
C11.09.12090C01	120	96	78	50,5	90	10	C	01

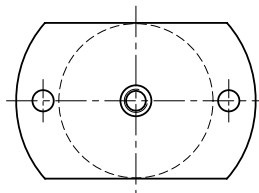
LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



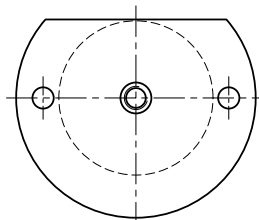
"FORM A"



"FORM B"



"FORM C"



LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO

Notes

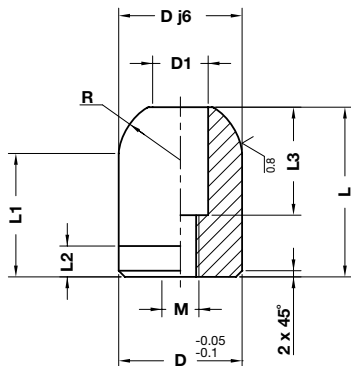
- 1 2 **Material:** 16MnCr5 - HRC: 60÷62
- 3 **Material:** CK45
- 4 M5x16 DIN 7991



Art.	D1=100	L=80	FORM	TYPE
C11.11.	100	80	B	01

OMCR CODE	D1	D2	D3	D4	L	H	FORM	TYPE
C11.11.10080A00	100	76	58	40,5	80	10,5	A	00
C11.11.10080A01	100	76	58	40,5	80	10	A	01
C11.11.10080A02	100	76	58	40,5	80	5,5	A	02
C11.11.10080A03	100	76	58	40,5	80	5	A	03
C11.11.10080B00	100	76	58	40,5	80	10,5	B	00
C11.11.10080B01	100	76	58	40,5	80	10	B	01
C11.11.10080B02	100	76	58	40,5	80	5,5	B	02
C11.11.10080B03	100	76	58	40,5	80	5	B	03
C11.11.10080C00	100	76	58	40,5	80	10,5	C	00
C11.11.10080C01	100	76	58	40,5	80	10	C	01
C11.11.10080C02	100	76	58	40,5	80	5,5	C	02
C11.11.10080C03	100	76	58	40,5	80	5	C	03
C11.11.12090A00	120	96	78	50,5	90	10,5	A	00
C11.11.12090A01	120	96	78	50,5	90	10	A	01
C11.11.12090A02	120	96	78	50,5	90	5,5	A	02
C11.11.12090A03	120	96	78	50,5	90	5	A	03
C11.11.12090B00	120	96	78	50,5	90	10,5	B	00
C11.11.12090B01	120	96	78	50,5	90	10	B	01
C11.11.12090B02	120	96	78	50,5	90	5,5	B	02
C11.11.12090B03	120	96	78	50,5	90	5	B	03
C11.11.12090C00	120	96	78	50,5	90	10,5	C	00
C11.11.12090C01	120	96	78	50,5	90	10	C	01
C11.11.12090C02	120	96	78	50,5	90	5,5	C	02
C11.11.12090C03	120	96	78	50,5	90	5	C	03

LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO



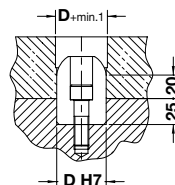
STOCK



Notes

Material: 16MnCr5 - HRC: 58÷60

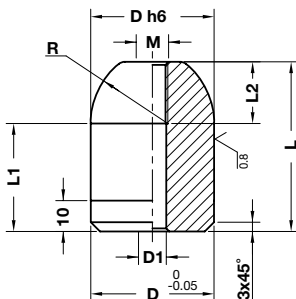
Application example



Art.	D=22	L=45
C11.12.	22	45

OMCR CODE	D	D1	L	L1	L2	L3	M	R
C11.12.2245	22	14	45	37,5	8	25	10	12,5
C11.12.3250	32	18	50	40	10	35	12	20
C11.12.4055	40	18	55	40	10	35	12	20
C11.12.5055	50	18	55	40	10	35	12	20

LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO



STOCK



Notes

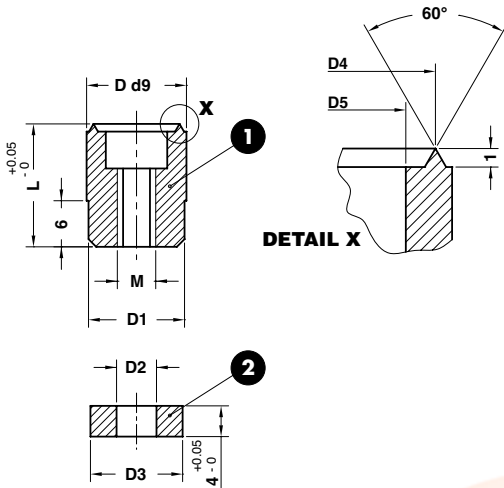
Material: 16MnCr5 - HRC: 58÷60



Art.	D=22	L=45
C11.20.	22	45

OMCR CODE	D	D1	L	L1	L2	M	R
C11.20.2245	22	7	45	35	16	M8	15
C11.20.2255	22	7	55	45	16	M8	15
C11.20.3250	32	9	50	37,5	20	M10	20
C11.20.4055	40	9	55	35	20	M10	25
C11.20.4065	40	9	65	45	20	M10	25
C11.20.4085	40	9	85	65	20	M10	25
C11.20.5055	50	9	55	41,25	20	M10	25
C11.20.5680	56	9	80	60	20	M10	30

VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



Notes

- 1** Material: X205Cr12KU
HRC: 60÷62
- 2** Material: X205Cr12KU

Standard OMCR



Art.	D=10	L=16
C11.30.	10	16

OMCR CODE	D	D1	D2	D3	D4	D5	L	M
C11.30.1016	10	9,5	4,2	9,7	8	6	16	M4
C11.30.1316	13	12,5	5,2	12	11,2	8	16	M5

STAMP RETAINER - HALTEPLATTE - PORTATIMBRI

Notes

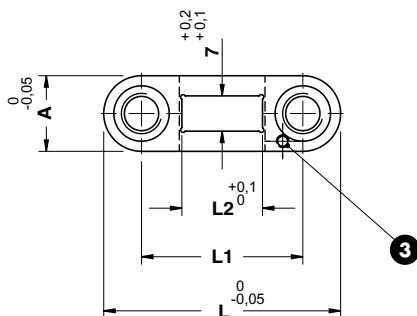
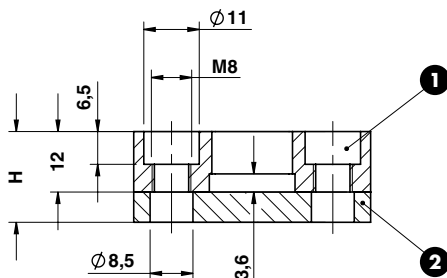
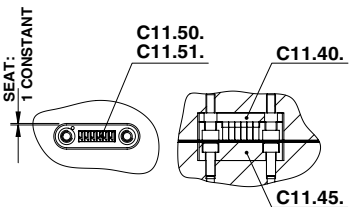
1 2

Material: CK45

3

ELASTIC PIN $\varnothing 2.5 \times 14$ DIN 1481

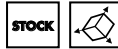
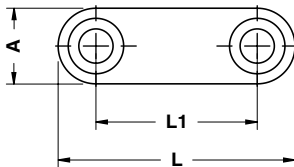
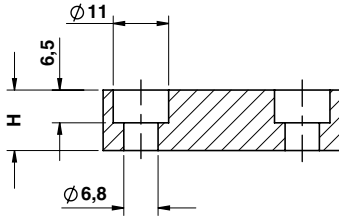
Application example



Art.	A=15	H=18	L=47
C11.40.	15	18	047

OMCR CODE	A	H	L	L1	L2	Nr. of stamps C11.50.	Nr. of stamps C11.51.
C11.40.1518045	15	18	45	30	12	3	6
C11.40.1518047	15	18	47	32	16	4	8
C11.40.1518055	15	18	55	40	24	6	12
C11.40.1518063	15	18	63	48	32	8	16
C11.40.1518071	15	18	71	56	40	10	20

BACKING PLATE - DRUCKPLATTE - REAZIONE



Notes

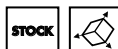
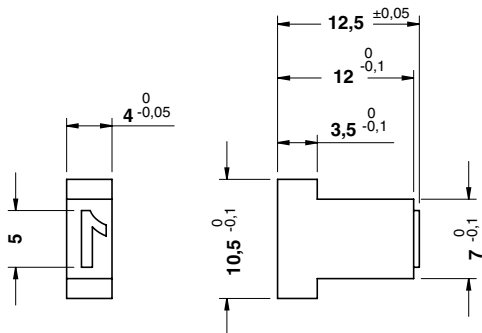
Material: CK45

Standard OMCR

Art.	A=15	H=12	L=47
C11.45.	15	12	047

OMCR CODE	A	H	L	L1	Used with Stamp Retainer
C11.45.1512045	15	12	45	30	C11.40.1518045
C11.45.1512047	15	12	47	32	C11.40.1518047
C11.45.1512055	15	12	55	40	C11.40.1518055
C11.45.1512063	15	12	63	48	C11.40.1518063
C11.45.1512071	15	12	71	56	C11.40.1518071

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



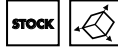
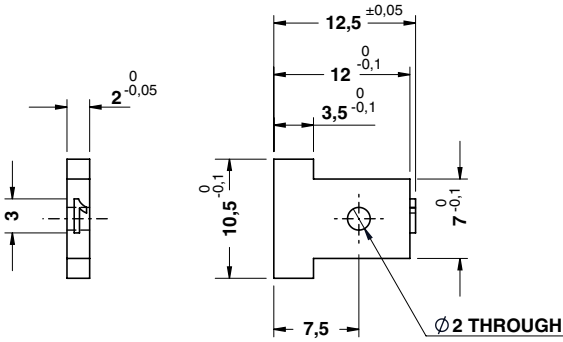
Notes

Material: X153CrMoV12
HRC: 54÷56

	Art.
	C11.50.01

OMCR CODE	Stamp	OMCR CODE	Stamp	OMCR CODE	Stamp	OMCR CODE	Stamp
C11.50.00	0	C11.50.10	B	C11.50.20	L	C11.50.30	V
C11.50.01	1	C11.50.11	C	C11.50.21	M	C11.50.31	W
C11.50.02	2	C11.50.12	D	C11.50.22	N	C11.50.32	X
C11.50.03	3	C11.50.13	E	C11.50.23	O	C11.50.33	Y
C11.50.04	4	C11.50.14	F	C11.50.24	P	C11.50.34	Z
C11.50.05	5	C11.50.15	G	C11.50.25	Q	C11.50.35	SPACE
C11.50.06	6 or 9	C11.50.16	H	C11.50.26	R	C11.50.36	-
C11.50.07	7	C11.50.17	I	C11.50.27	S	C11.50.37	-
C11.50.08	8	C11.50.18	J	C11.50.28	T		
C11.50.09	A	C11.50.19	K	C11.50.29	U		

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



Notes

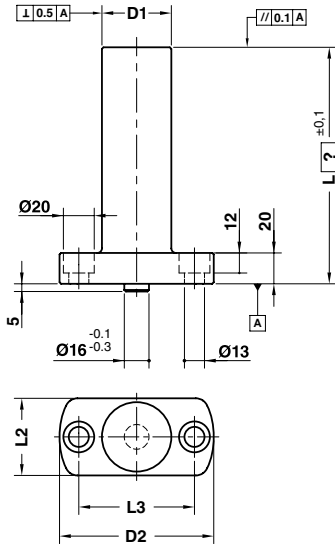
Material: X153CrMoV12
HRC: 54÷56

Standard OMCR

ORDER EXAMPLE	Art.
	C11.51.01

OMCR CODE	Stamp	OMCR CODE	Stamp	OMCR CODE	Stamp	OMCR CODE	Stamp
C11.51.00	0	C11.51.10	B	C11.51.20	L	C11.51.30	V
C11.51.01	1	C11.51.11	C	C11.51.21	M	C11.51.31	W
C11.51.02	2	C11.51.12	D	C11.51.22	N	C11.51.32	X
C11.51.03	3	C11.51.13	E	C11.51.23	O	C11.51.33	Y
C11.51.04	4	C11.51.14	F	C11.51.24	P	C11.51.34	Z
C11.51.05	5	C11.51.15	G	C11.51.25	Q	C11.51.35	SPACE
C11.51.06	6 or 9	C11.51.16	H	C11.51.26	R	C11.51.36	-
C11.51.07	7	C11.51.17	I	C11.51.27	S	C11.51.37	-
C11.51.08	8	C11.51.18	J	C11.51.28	T		
C11.51.09	A	C11.51.19	K	C11.51.29	U		

AIR PIN - DRUCKBOLZEN - CANDELA



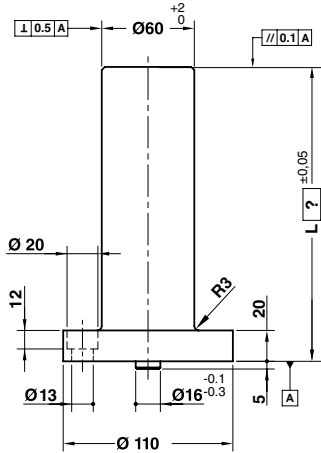
L_{max} = 360 mm
 Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes
Material: CK45 - 800÷1000 N/mm²

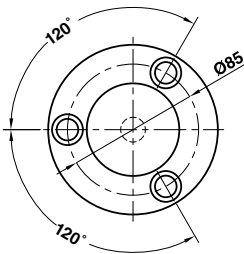
ORDER EXAMPLE	Art.	D1=36	L=230
	C12.10.	36	230

OMCR CODE	D1	D2	L2	L3	Max load (kN)
C12.10.	36	90	40	65	50
C12.10.	45	100	50	75	70

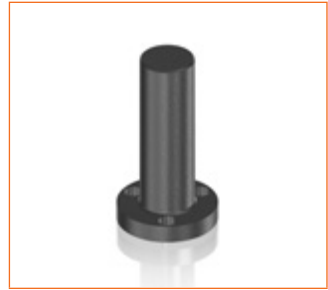
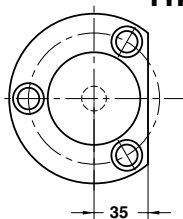
AIR PIN - UNTERLUFTBOLZEN - CANDELA



TYPE 01



TYPE 02



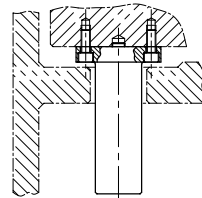
Lmax = 440 mm

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

Material: CK45 - 800÷1000 N/mm²

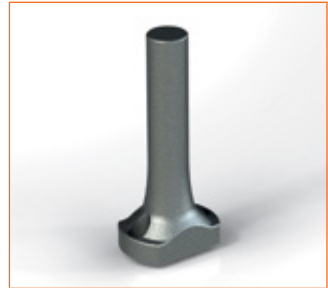
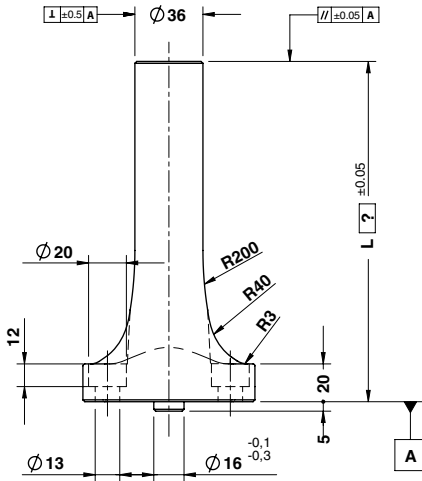
Application example



Art.	TYPE	L=220
C12.11.	01	220

OMCR CODE	TYPE	Max Load (kN)
C12.11.	01	80
C12.11.	02	80

AIR PIN VDI 3002 - DRUCKBOLZEN VDI 3002 - CANDELA VDI 3002



Lmax = 360 mm

Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

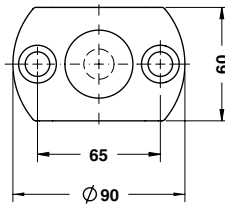
Notes

Material: 42CrMo4
 800÷1000 N/mm²

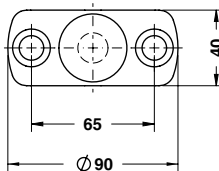
ORDER EXAMPLE	Art.	TYPE	L=220
	C12.12.	10	220

OMCR CODE	TYPE	Max Load (kN)
C12.12.	10	50
C12.12.	11	50
C12.12.	12	50

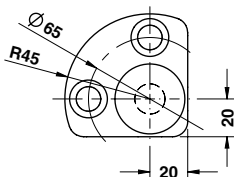
TYPE 10



TYPE 11



TYPE 12



SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE

Notes

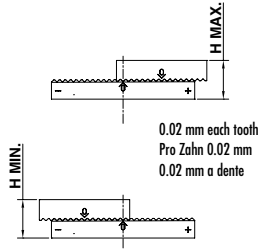
1 2 3

Material: 90MnCrV8
HRC: 58±60

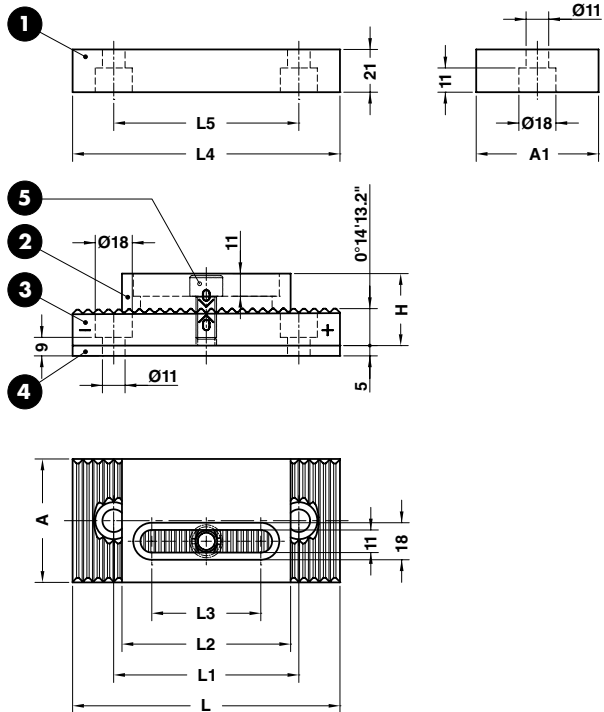
4 Material: X155CrVMo12

5 DIN 912

Application example



Standard OMCR

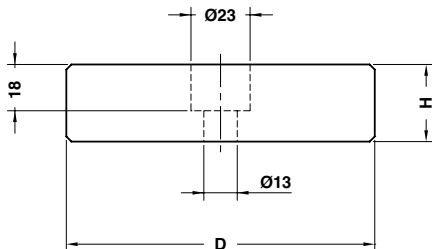


ORDER EXAMPLE	Art.	A=60	H=35	L=130
	C12.16.	060	35	130

OMCR CODE	A	A1	H	H min.	H max.	L	L1	L2	L3	L4	L5
C12.16.06035130	60	60	35	34,88	35,12	130	90	90	61	130	90
C12.16.08035160	80	80	35	34,86	35,14	160	120	110	71	160	120

COMPENSATION BLOCK - ABSTANDSBLOCK - TASSELLO DI COMPENSAZIONE

STOCK



Notes

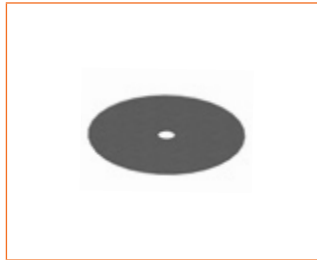
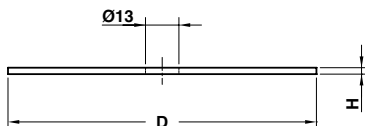
Material: 42CrMo4 - HRC: 46÷48

ORDER EXAMPLE	Art.	D=80	H=25
	C12.20.	080	25

OMCR CODE	D	H
C12.20.08025	80	25
C12.20.08030	80	30
C12.20.10025	100	25
C12.20.10030	100	30
C12.20.12025	120	25
C12.20.12030	120	30

SHIM - AUSGLEICHSCHEIB - SPESSORE

STOCK



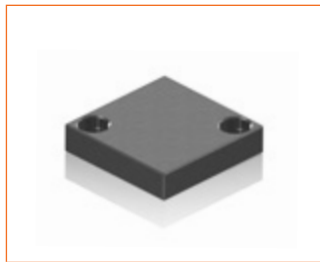
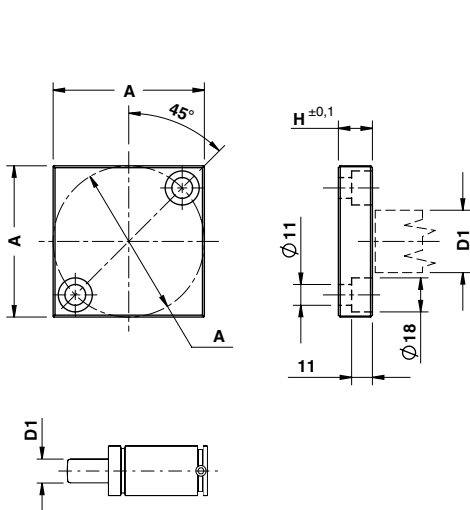
Notes

Material: CK45

ORDER EXAMPLE	Art.	D=80	H=0,5
	C12.21.	080	05

OMCR CODE	D	H	Material
C12.21.08001	80	0,1	BRASS
C12.21.08005	80	0,5	STEEL
C12.21.10001	100	0,1	BRASS
C12.21.10005	100	0,5	STEEL
C12.21.12001	120	0,1	BRASS
C12.21.12005	120	0,5	STEEL

PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE



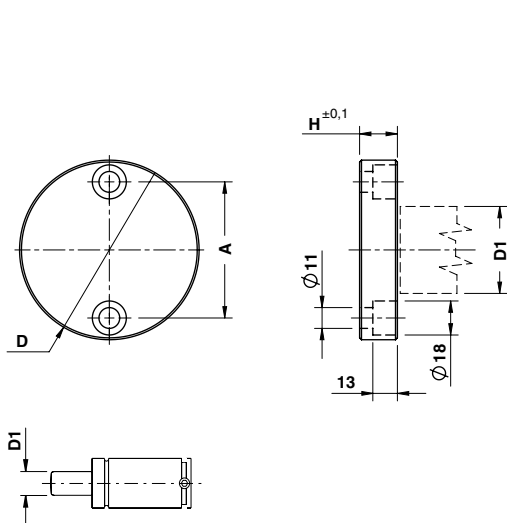
Notes

Material: 16MnCr5
HRC: 58÷60

ORDER EXAMPLE	Art.	A=80	H=18
	C12.22.	80	18
OMCR CODE			
	A	D1	H
C12.22.8018	80	≤ 65	18

Standard OMCR

PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE

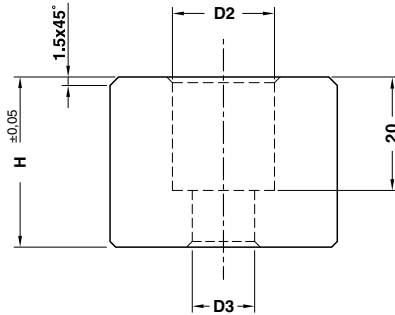


Notes

Material: 16MnCr5
HRC: 58÷60

ORDER EXAMPLE	Art.	D=95	H=20	
	C12.23.	95	20	
OMCR CODE				
	A	D	D1	H
C12.23.6520	42	65	≤ 25	20
C12.23.9520	72	95	≤ 50	20

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE

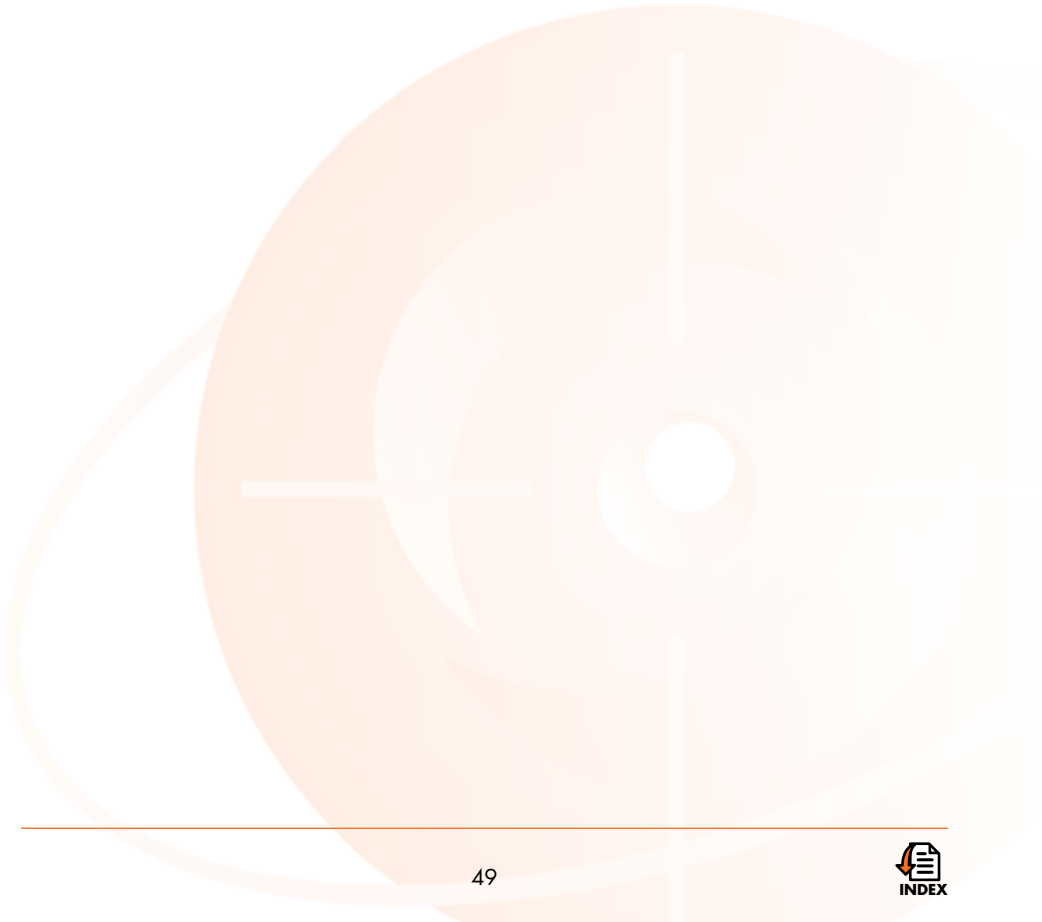


Notes

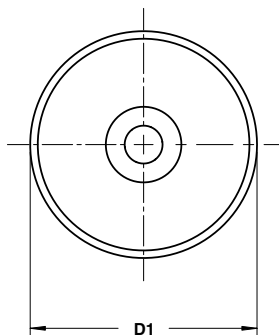
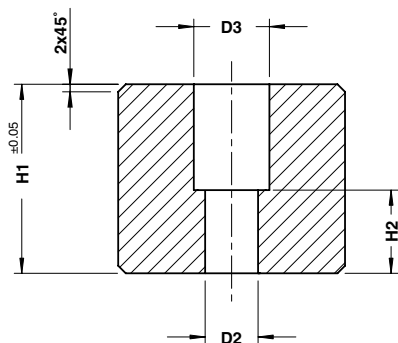
Material: CK45

ORDER EXAMPLE	Art.	D1=40	H=30
	C12.25.	040	30

OMCR CODE	D1	D2	D3	H
C12.25.04030	40	18	11	30
C12.25.06050	60	20	13,5	50
C12.25.10050	100	20	13,5	50



BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

Material: CK45
 Screws not included



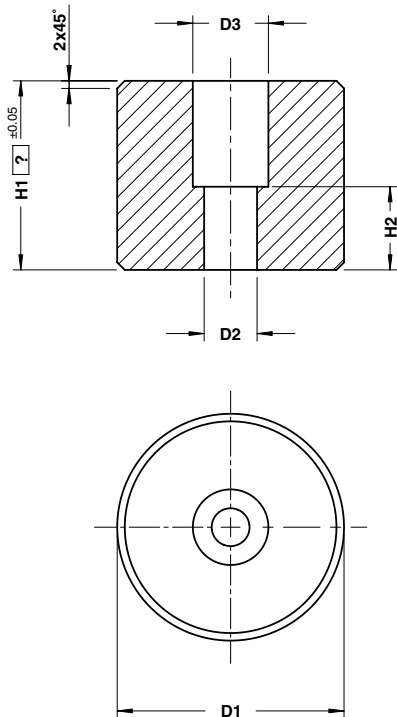
Art.	D1=60	H1=40,50
C12.26.	060	04050

OMCR CODE	D1	D2	D3	H1	H2	Screw DIN EN ISO 4762	Max load (t)
C12.26.02502000	25	9	15	20	10	M8x25	3,5
C12.26.02502500	25	9	15	25	10	M8x25	3,5
C12.26.02503000	25	9	15	30	10	M8x25	3,5
C12.26.02503500	25	9	15	35	10	M8x25	3,5
C12.26.02504000	25	9	15	40	10	M8x25	3,5
C12.26.02504050	25	9	15	40,5	28	M8x40	3,5
C12.26.03002000	30	9	15	20	10	M8x25	8
C12.26.03002500	30	9	15	25	10	M8x25	8
C12.26.03003000	30	9	15	30	10	M8x25	8
C12.26.03003500	30	9	15	35	10	M8x25	8
C12.26.03004000	30	9	15	40	10	M8x25	8
C12.26.03004050	30	9	15	40,5	28	M8x40	8
C12.26.03005000	30	9	15	50	28	M8x40	8
C12.26.03005050	30	9	15	50,5	28	M8x40	8

OMCR CODE	D1	D2	D3	H1	H2	Screw DIN EN ISO 4762	Max load (t)
C12.26.04002000	40	9	15	20	10	M8x25	20
C12.26.04002500	40	9	15	25	10	M8x25	20
C12.26.04003000	40	9	15	30	10	M8x25	20
C12.26.04003500	40	9	15	35	10	M8x25	20
C12.26.04004000	40	9	15	40	10	M8x25	20
C12.26.04004050	40	9	15	40,5	28	M8x40	20
C12.26.04005000	40	9	15	50	28	M8x40	20
C12.26.04005050	40	9	15	50,5	28	M8x40	20
C12.26.04006000	40	9	15	60	28	M8x40	20
C12.26.04006050	40	9	15	60,5	28	M8x40	20
C12.26.05002000	50	9	15	20	10	M8x25	35
C12.26.05002500	50	9	15	25	10	M8x25	35
C12.26.05003000	50	9	15	30	10	M8x25	35
C12.26.05003500	50	9	15	35	10	M8x25	35
C12.26.05004000	50	9	15	40	10	M8x25	35
C12.26.05004050	50	9	15	40,5	28	M8x40	35
C12.26.05005000	50	9	15	50	28	M8x40	35
C12.26.05005050	50	9	15	50,5	28	M8x40	35
C12.26.05006000	50	9	15	60	28	M8x40	35
C12.26.05006050	50	9	15	60,5	28	M8x40	35
C12.26.06003000	60	14	20	30	12	M12x30	55
C12.26.06003050	60	14	20	30,5	12	M12x30	55
C12.26.06004000	60	14	20	40	22	M12x40	55
C12.26.06004050	60	14	20	40,5	22	M12x40	55
C12.26.06005000	60	14	20	50	22	M12x40	55
C12.26.06005050	60	14	20	50,5	22	M12x40	55
C12.26.06006000	60	14	20	60	22	M12x40	55
C12.26.06006050	60	14	20	60,5	42	M12x60	55
C12.26.08004000	80	18	26	40	20	M12x40	100
C12.26.08004050	80	18	26	40,5	20	M12x40	100
C12.26.08005000	80	18	26	50	20	M12x40	100
C12.26.08005050	80	18	26	50,5	20	M12x40	100
C12.26.08006000	80	18	26	60	20	M12x40	100
C12.26.08006050	80	18	26	60,5	36	M12x60	100
C12.26.10006000	100	18	26	60	20	M16x40	170
C12.26.10006050	100	18	26	60,5	36	M16x60	170
C12.26.12006000	120	22	33	60	15	M20x50	250
C12.26.12006050	120	22	33	60,5	30	M20x60	250
C12.26.15006000	150	22	33	60	15	M20x50	400
C12.26.15006050	150	22	33	60,5	30	M20x60	400

Standard OMCR

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



⚠
 Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

Material: CK45
 Screws not included

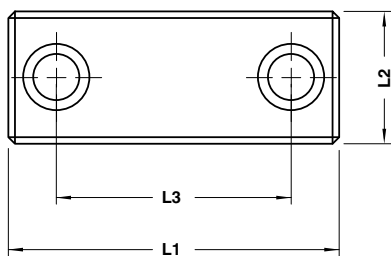
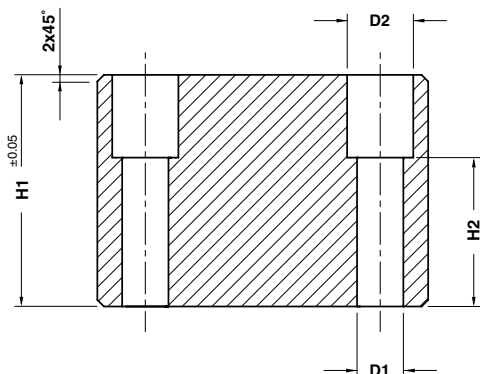
ORDER EXAMPLE	Art.	D1=80	H1=45
	C12.26.	080	04500

OMCR CODE	D1	D2	D3	H1	H2	Screw DIN EN ISO 4762	Max load (t)
C12.26.	25	9	15	$\geq 20 - 40$	10	M8x25	3,5
C12.26.	25	9	15	$> 40 - 60$	28	M8x40	3,5
C12.26.	30	9	15	$\geq 20 - 40$	10	M8x25	8
C12.26.	30	9	15	$> 40 - 60$	28	M8x40	8
C12.26.	40	9	15	$\geq 20 - 40$	10	M8x25	20
C12.26.	40	9	15	$> 40 - 60$	28	M8x40	20
C12.26.	50	9	15	$\geq 20 - 40$	10	M8x25	35
C12.26.	50	9	15	$> 40 - 60$	28	M8x40	35

OMCR CODE	D1	D2	D3	H1	H2	Screw DIN EN ISO 4762	Max load (t)
C12.26.	60	14	20	≥ 25 - 40	12	M12x30	55
C12.26.	60	14	20	> 40 - 60	22	M12x40	55
C12.26.	60	14	20	> 60 - 80	42	M12x60	55
C12.26.	60	14	20	> 80 - 100	62	M12x80	55
C12.26.	60	14	20	> 100 - 120	82	M12x100	55
C12.26.	60	14	20	> 120 - 140	102	M12x120	55
C12.26.	60	14	20	> 140 - 160	122	M12x140	55
C12.26.	80	18	26	≥ 25 - 40	12	M16x30	100
C12.26.	80	18	26	> 40 - 60	20	M16x40	100
C12.26.	80	18	26	> 60 - 80	36	M16x60	100
C12.26.	80	18	26	> 80 - 100	56	M16x80	100
C12.26.	80	18	26	> 100 - 120	76	M16x100	100
C12.26.	80	18	26	> 120 - 140	96	M16x120	100
C12.26.	80	18	26	> 140 - 160	116	M16x140	100
C12.26.	100	18	26	≥ 40 - 60	20	M16x40	170
C12.26.	100	18	26	> 60 - 80	36	M16x60	170
C12.26.	100	18	26	> 80 - 100	56	M16x80	170
C12.26.	100	18	26	> 100 - 120	76	M16x100	170
C12.26.	100	18	26	> 120 - 140	96	M16x120	170
C12.26.	100	18	26	> 140 - 160	116	M16x140	170
C12.26.	120	22	33	≥ 40 - 60	15	M20x40	250
C12.26.	120	22	33	> 60 - 80	30	M20x60	250
C12.26.	120	22	33	> 80 - 100	50	M20x80	250
C12.26.	120	22	33	> 100 - 120	70	M20x100	250
C12.26.	120	22	33	> 120 - 140	90	M20x120	250
C12.26.	120	22	33	> 140 - 160	110	M20x140	250
C12.26.	150	22	33	≥ 40 - 60	15	M20x40	400
C12.26.	150	22	33	> 60 - 80	30	M20x60	400
C12.26.	150	22	33	> 80 - 100	50	M20x80	400
C12.26.	150	22	33	> 100 - 120	70	M20x100	400
C12.26.	150	22	33	> 120 - 140	90	M20x120	400
C12.26.	150	22	33	> 140 - 160	110	M20x140	400

Standard OMCR

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



STOCK

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

Material: CK45
Screws not included

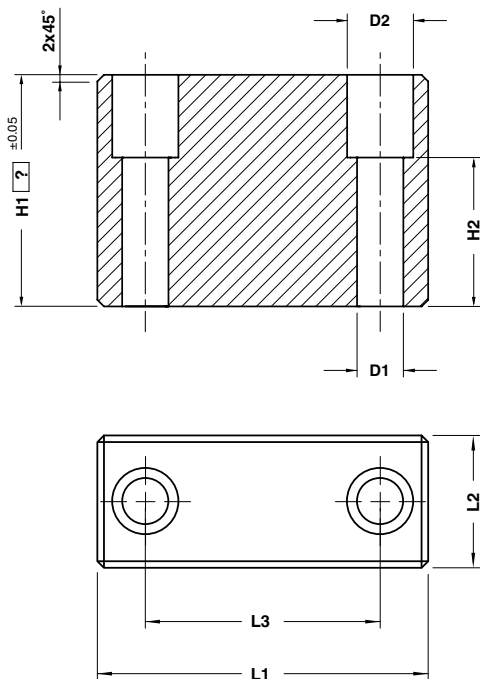


Art.	L1=60	L2=40	H1=60,5
C12.27.	060	040	06050

OMCR CODE	D1	D2	H1	H2	L1	L2	L3	Screw DIN EN ISO 4762	Max load (t)
C12.27.06004004000	9	15	40	10	60	40	40	M8x25	50
C12.27.06004004050	9	15	40,5	28	60	40	40	M8x40	50
C12.27.06004005000	9	15	50	28	60	40	40	M8x40	50
C12.27.06004005050	9	15	50,5	28	60	40	40	M8x40	50
C12.27.06004006000	9	15	60	28	60	40	40	M8x40	50
C12.27.06004006050	9	15	60,5	48	60	40	40	M8x60	50
C12.27.08004004000	11	18	40	8	80	40	56	M10x25	65
C12.27.08004004050	11	18	40,5	25	80	40	56	M10x40	65
C12.27.08004005000	11	18	50	25	80	40	56	M10x40	65
C12.27.08004005050	11	18	50,5	25	80	40	56	M10x40	65
C12.27.08004006000	11	18	60	25	80	40	56	M10x40	65
C12.27.08004006050	11	18	60,5	45	80	40	56	M10x60	65

OMCR CODE	D1	D2	H1	H2	L1	L2	L3	Screw DIN EN ISO 4762	Max load (t)
C12.27.10004004000	14	20	40	6	100	40	71	M12x25	85
C12.27.10004004050	14	20	40,5	22	100	40	71	M12x40	85
C12.27.10004005000	14	20	50	22	100	40	71	M12x40	85
C12.27.10004005050	14	20	50,5	22	100	40	71	M12x40	85
C12.27.10004006000	14	20	60	22	100	40	71	M12x40	85
C12.27.10004006050	14	20	60,5	42	100	40	71	M12x60	85
C12.27.10005004000	14	20	40	6	100	50	76	M12x25	110
C12.27.10005004050	14	20	40,5	22	100	50	76	M12x40	110
C12.27.10005005000	14	20	50	22	100	50	76	M12x40	110
C12.27.10005005050	14	20	50,5	22	100	50	76	M12x40	110
C12.27.10005006000	14	20	60	22	100	50	76	M12x40	110
C12.27.10005006050	14	20	60,5	42	100	50	76	M12x60	110
C12.27.12006004000	14	20	40	6	120	60	93	M12x25	160
C12.27.12006004050	14	20	40,5	22	120	60	93	M12x40	160
C12.27.12006005000	14	20	50	22	120	60	93	M12x40	160
C12.27.12006005050	14	20	50,5	22	120	60	93	M12x40	160
C12.27.12006006000	14	20	60	22	120	60	93	M12x40	160
C12.27.12006006050	14	20	60,5	42	120	60	93	M12x60	160
C12.27.15008005000	18	26	50	18	150	80	120	M16x40	270
C12.27.15008005050	18	26	50,5	18	150	80	120	M16x40	270
C12.27.15008006000	18	26	60	18	150	80	120	M16x40	270
C12.27.15008006050	18	26	60,5	38	150	80	120	M16x60	270
C12.27.16010006000	18	26	60	18	160	100	130	M16x40	380
C12.27.16010006050	18	26	60,5	38	160	100	130	M16x60	380

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

Material: CK45
Screws not included



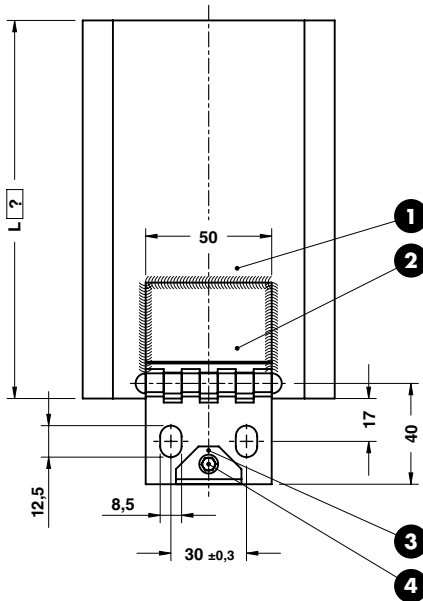
Art.	L1=150	L2=80	H1=85
C12.27.	150	080	08500

OMCR CODE	D1	D2	H1	H2	L1	L2	L3	Screw DIN EN ISO 4762	Max load (t)
C12.27.	9	15	≥ 20 - 40	10	60	40	40	M8x25	50
C12.27.	9	15	> 40 - 60	28	60	40	40	M8x40	50
C12.27.	9	15	> 60 - 80	48	60	40	40	M8x60	50
C12.27.	9	15	> 80 - 100	68	60	40	40	M8x80	50
C12.27.	9	15	> 100 - 120	68	60	40	40	M8x80	50
C12.27.	9	15	> 120 - 140	68	60	40	40	M8x80	50
C12.27.	9	15	> 140 - 160	68	60	40	40	M8x80	50
C12.27.	11	18	≥ 20 - 40	8	80	40	56	M10x25	65
C12.27.	11	18	> 40 - 60	25	80	40	56	M10x40	65
C12.27.	11	18	> 60 - 80	45	80	40	56	M10x60	65
C12.27.	11	18	> 80 - 100	65	80	40	56	M10x80	65
C12.27.	11	18	> 100 - 120	85	80	40	56	M10x100	65
C12.27.	11	18	> 120 - 140	105	80	40	56	M10x120	65
C12.27.	11	18	> 140 - 160	105	80	40	56	M10x120	65
C12.27.	14	20	≥ 20 - 40	6	100	40	71	M12x25	85
C12.27.	14	20	> 40 - 60	22	100	40	71	M12x40	85
C12.27.	14	20	> 60 - 80	42	100	40	71	M12x60	85
C12.27.	14	20	> 80 - 100	62	100	40	71	M12x80	85
C12.27.	14	20	> 100 - 120	82	100	40	71	M12x100	85
C12.27.	14	20	> 120 - 140	102	100	40	71	M12x120	85

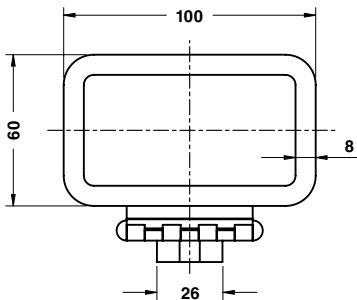
OMCR CODE	D1	D2	H1	H2	L1	L2	L3	Screw DIN EN ISO 4762	Max load (t)
C12.27.	14	20	> 140 - 160	122	100	40	71	M12x140	85
C12.27.	14	20	≥ 20 - 40	6	100	50	76	M12x25	110
C12.27.	14	20	> 40 - 60	22	100	50	76	M12x40	110
C12.27.	14	20	> 60 - 80	42	100	50	76	M12x60	110
C12.27.	14	20	> 80 - 100	62	100	50	76	M12x80	110
C12.27.	14	20	> 100 - 120	82	100	50	76	M12x100	110
C12.27.	14	20	> 120 - 140	102	100	50	76	M12x120	110
C12.27.	14	20	> 140 - 160	122	100	50	76	M12x140	110
C12.27.	14	20	≥ 20 - 40	6	120	60	93	M12x25	160
C12.27.	14	20	> 40 - 60	22	120	60	93	M12x40	160
C12.27.	14	20	> 60 - 80	42	120	60	93	M12x60	160
C12.27.	14	20	> 80 - 100	62	120	60	93	M12x80	160
C12.27.	14	20	> 100 - 120	82	120	60	93	M12x100	160
C12.27.	14	20	> 120 - 140	102	120	60	93	M12x120	160
C12.27.	14	20	> 140 - 160	122	120	60	93	M12x140	160
C12.27.	18	26	> 40 - 60	18	150	80	120	M16x40	270
C12.27.	18	26	> 60 - 80	38	150	80	120	M16x60	270
C12.27.	18	26	> 80 - 100	58	150	80	120	M16x80	270
C12.27.	18	26	> 100 - 120	78	150	80	120	M16x100	270
C12.27.	18	26	> 120 - 140	98	150	80	120	M16x120	270
C12.27.	18	26	> 140 - 160	118	150	80	120	M16x140	270
C12.27.	18	26	> 40 - 60	18	160	100	130	M16x40	380
C12.27.	18	26	> 60 - 80	38	160	100	130	M16x60	380
C12.27.	18	26	> 80 - 100	58	160	100	130	M16x80	380
C12.27.	18	26	> 100 - 120	78	160	100	130	M16x100	380
C12.27.	18	26	> 120 - 140	98	160	100	130	M16x120	380
C12.27.	18	26	> 140 - 160	118	160	100	130	M16x140	380

Standard OMCR

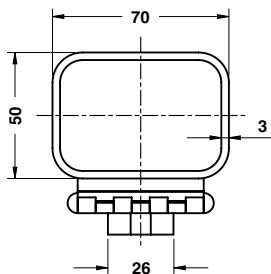
SPACING BAR - ABSTELLBOLZEN - DISTANZIALE



TYPE 01



TYPE 02



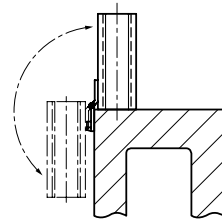
L max. = 400

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

- 1 **Material:** St37
- 2 AHA Hinge
- 3 **Material:** Elastomer 68SH
- 4 Screw M4x8 - DIN912

Application example



OMCR CODE	TYPE	Max load (kN)
C12.30.	01	300
C12.30.	02	100

PAD RETAINER PIN VDI 3365 - STECKBOLZEN VDI 3365 - PERNO DI ARRESTO VDI 3365

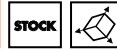
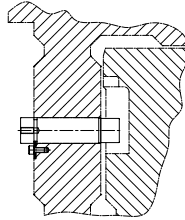


Respect the dynamic load
 Dynamische Last berücksichtigen
 Rispettare il carico dinamico

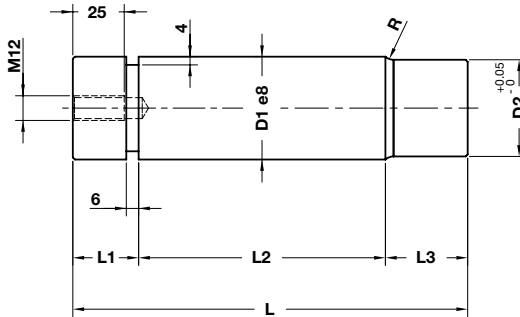
Notes

Material: 42CrMo4
 800÷1000 N/mm²

Application example



Standard OMCR



Art.	D1=32	L=105
C13.10.	32	105

OMCR CODE	D1	D2	L	L1	L2	L3	R	Dynamic load (kN)
C13.10.32105	32	29	105	22	58	25	4	3
C13.10.32122	32	29	122	22	75	25	4	3
C13.10.40139	40	37	139	32	75	32	5	5
C13.10.40159	40	37	159	32	95	32	5	5
C13.10.50167	50	47	167	32	95	40	6	7,5
C13.10.50192	50	47	192	32	120	40	6	7,5
C13.10.63202	63	60	202	32	120	50	6	12,5
C13.10.63237	63	60	237	32	155	50	6	12,5

PAD RETAINER PIN VDI 3365 - STECKBOLZEN VDI 3365 - PERNO DI ARRESTO VDI 3365

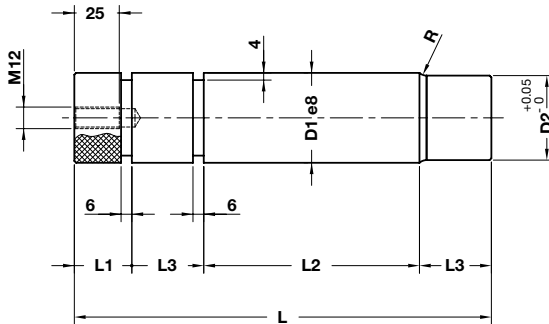
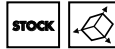
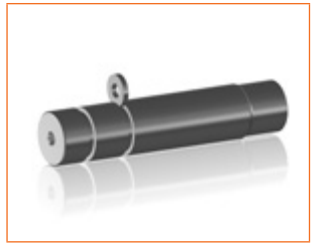
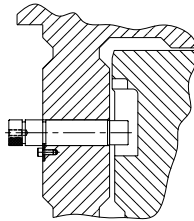


Respect the dynamic load
 Dynamische Last berücksichtigen
 Rispettare il carico dinamico

Notes

Material: 42CrMo4
 800÷1000 N/mm²

Application example

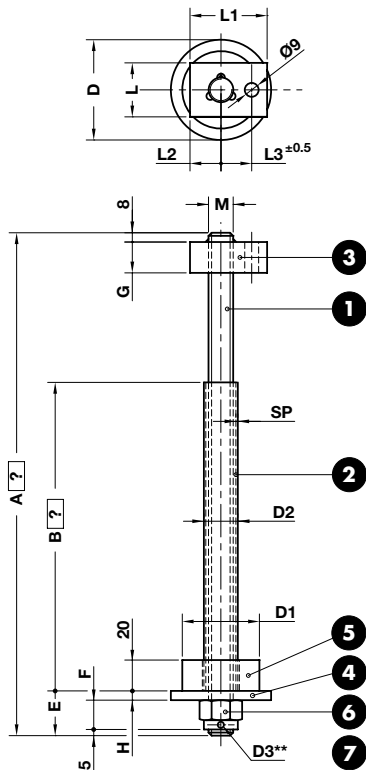


Art.	D1=32	L=130
C13.11.	32	130

OMCR CODE	D1	D2	L	L1	L2	L3	R	Dynamic load (kN)
C13.11.32130	32	29	130	22	58	25	4	3
C13.11.32147	32	29	147	22	75	25	4	3
C13.11.40171	40	37	171	32	75	32	5	5
C13.11.40191	40	37	191	32	95	32	5	5
C13.11.50207	50	47	207	32	95	40	6	7,5
C13.11.50232	50	47	232	32	120	40	6	7,5
C13.11.63252	63	60	252	32	120	50	6	12,5
C13.11.63287	63	60	287	32	155	50	6	12,5

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

Standard OMCR

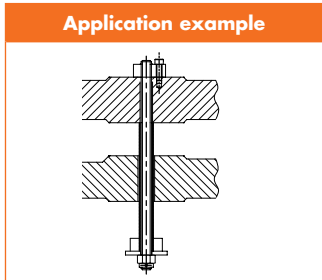


** Drill hole in rod for copper pin at assembly
 Bohrung für Splint durchzuführen bei der montage
 Foro per copiglia da eseguire al montaggio



⚠
 Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

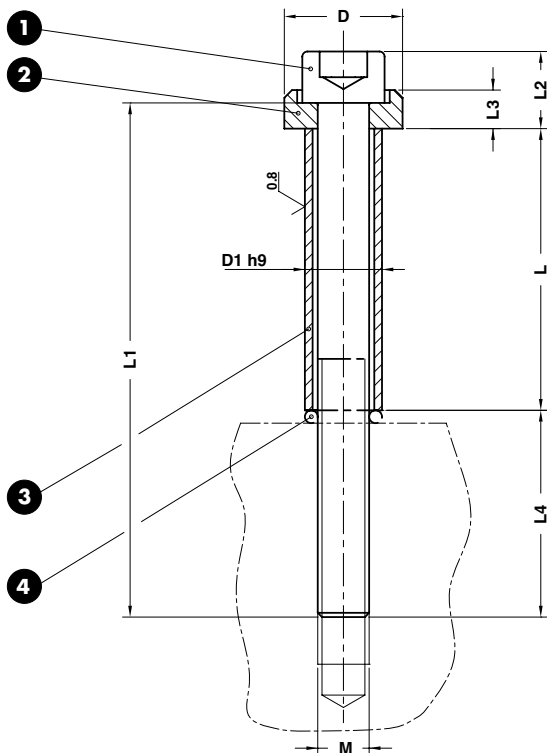
- Notes**
- 1** Material: 36NiCrMo4
 - 2** **3** Material: Si37
 - 4** Material: CK45
 - 5** Elastomer 92SH
 - 6** DIN 935 cl. 8.8
 - 7** DIN 94



ORDER EXAMPLE	Art.	M=M30	A=100	B=60
	C13.20.	M30	100	60

OMCR CODE	D	D1	D2	D3	SP	E	F	G	H	L	L1	L2	L3	M	Max load (kN)
C13.20.	65	50	22	4	2,5	30	19	20	6	35	50	20	20	M16	2,5
C13.20.	82	63	25	4	2	35	22	20	8	40	50	20	20	M20	4,5
C13.20.	105	80	30	5	2,5	42	27	20	10	45	50	20	20	M24	7,5
C13.20.	130	100	38	6,3	3,5	50	33	25	12	50	63	28	26	M30	12,5

GROUND COLLAR SCREW - SCHRAUBE MIT DISTANZROHR - VITE CON COLLETO



Notes

- 1 DIN 912 cl. 12.9
- 2 **Material:** Steel 1000 N/mm²
- 3 **Material:** Steel 1200÷1400 N/mm²
- 4 O-Ring*

* Remove before assembly
 Vor Einbau entfernen
 Da rimuovere prima del montaggio

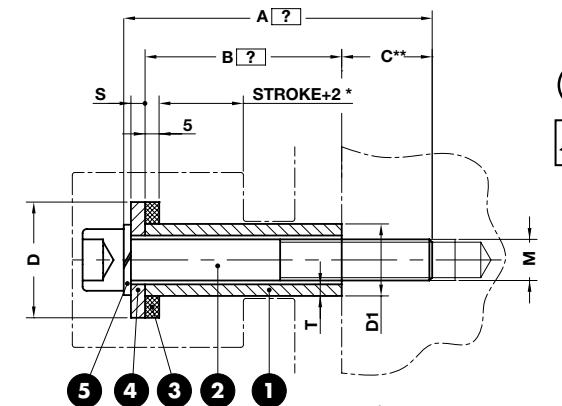
ORDER EXAMPLE	Art.	M=M6	L=70
	C13.24.	M06	070

OMCR CODE	D	D1	L	L1	L2	L3	L4	M
C13.24.M06020	15	10	20	35	10	5,5	11	M6
C13.24.M06025	15	10	25	40	10	5,5	11	M6
C13.24.M06030	15	10	30	45	10	5,5	11	M6
C13.24.M06035	15	10	35	50	10	5,5	11	M6
C13.24.M06040	15	10	40	55	10	5,5	11	M6
C13.24.M06045	15	10	45	60	10	5,5	11	M6
C13.24.M06050	15	10	50	65	10	5,5	11	M6
C13.24.M06055	15	10	55	70	10	5,5	11	M6
C13.24.M06060	15	10	60	80	10	5,5	16	M6
C13.24.M06070	15	10	70	90	10	5,5	16	M6
C13.24.M06080	15	10	80	100	10	5,5	16	M6
C13.24.M06090	15	10	90	110	10	5,5	16	M6
C13.24.M06100	15	10	100	120	10	5,5	16	M6
C13.24.M08030	19	12,5	30	45	13	6,5	10	M8
C13.24.M08035	19	12,5	35	50	13	6,5	10	M8
C13.24.M08040	19	12,5	40	55	13	6,5	10	M8
C13.24.M08045	19	12,5	45	60	13	6,5	10	M8

OMCR CODE	D	D1	L	L1	L2	L3	L4	M
C13.24.M08050	19	12,5	50	65	13	6,5	10	M8
C13.24.M08055	19	12,5	55	70	13	6,5	10	M8
C13.24.M08060	19	12,5	60	80	13	6,5	15	M8
C13.24.M08070	19	12,5	70	90	13	6,5	15	M8
C13.24.M08080	19	12,5	80	100	13	6,5	15	M8
C13.24.M08090	19	12,5	90	110	13	6,5	15	M8
C13.24.M08100	19	12,5	100	120	13	6,5	15	M8
C13.24.M10030	23	15	30	50	15	7,5	15	M10
C13.24.M10035	23	15	35	55	15	7,5	15	M10
C13.24.M10040	23	15	40	60	15	7,5	15	M10
C13.24.M10045	23	15	45	65	15	7,5	15	M10
C13.24.M10050	23	15	50	70	15	7,5	15	M10
C13.24.M10055	23	15	55	75	15	7,5	15	M10
C13.24.M10060	23	15	60	80	15	7,5	15	M10
C13.24.M10070	23	15	70	90	15	7,5	15	M10
C13.24.M10080	23	15	80	100	15	7,5	15	M10
C13.24.M10090	23	15	90	110	15	7,5	15	M10
C13.24.M10100	23	15	100	120	15	7,5	15	M10
C13.24.M10120	23	15	120	140	15	7,5	15	M10
C13.24.M12030	27	17,5	30	50	18	9	14	M12
C13.24.M12040	27	17,5	40	60	18	9	14	M12
C13.24.M12045	27	17,5	45	65	18	9	14	M12
C13.24.M12050	27	17,5	50	70	18	9	14	M12
C13.24.M12055	27	17,5	55	80	18	9	19	M12
C13.24.M12060	27	17,5	60	90	18	9	24	M12
C13.24.M12070	27	17,5	70	100	18	9	24	M12
C13.24.M12080	27	17,5	80	110	18	9	24	M12
C13.24.M12090	27	17,5	90	120	18	9	24	M12
C13.24.M12100	27	17,5	100	130	18	9	24	M12
C13.24.M12110	27	17,5	110	140	18	9	24	M12
C13.24.M12120	27	17,5	120	150	18	9	24	M12
C13.24.M12140	27	17,5	140	180	18	9	24	M12
C13.24.M16050	34	23	50	80	24	11	22	M16
C13.24.M16060	34	23	60	90	24	11	22	M16
C13.24.M16070	34	23	70	100	24	11	22	M16
C13.24.M16080	34	23	80	110	24	11	22	M16
C13.24.M16090	34	23	90	120	24	11	22	M16
C13.24.M16100	34	23	100	130	24	11	22	M16
C13.24.M16110	34	23	110	140	24	11	22	M16
C13.24.M16120	34	23	120	150	24	11	22	M16
C13.24.M16140	34	23	140	180	24	11	32	M16
C13.24.M16150	34	23	150	180	24	11	22	M16
C13.24.M16160	34	23	160	200	24	11	32	M16

Standard OMCR

PAD RETAINER - ZUGBOLZENSATZ - GRUPPO TIRANTE



Art.	M=M10	A=100	B=76
C13.25.	M10	A100	B076

* Hub +2, Corsa +2
 ** 1,5 x d on steel, auf stahl, su acciaio
 2 x d on cast iron, auf gusseisen, su ghisa

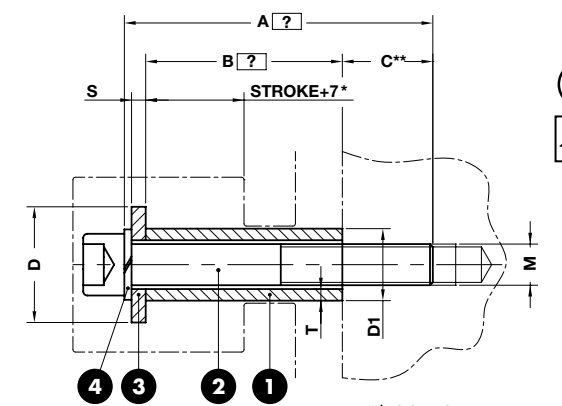
OMCR CODE	D	D1	M	S	T	Max load (kN)
C13.25.	32	16	M10	4	2,5	1
C13.25.	36	20	M12	6	3,5	1,5
C13.25.	45	28	M16	6	5,5	2,5



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

- Notes**
- 1** Material: St37
 - 2** DIN 912 cl. 8.8
 - 3** Material: Elastomer 92SH
 - 4** Material: CK45
 - 5** DIN 127

PAD RETAINER - ZUGBOLZENSATZ - GRUPPO TIRANTE



Art.	M=M10	A=100	B=76
C13.26.	M10	A100	B076

* Hub +2, Corsa +2
 ** 1,5 x d on steel, auf stahl, su acciaio
 2 x d on cast iron, auf gusseisen, su ghisa

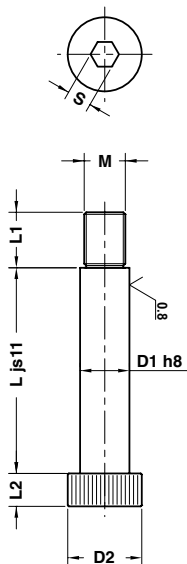
OMCR CODE	D	D1	M	S	T	Max load (kN)
C13.26.	25	16	M10	4	2,5	1
C13.26.	30	20	M12	6	3,5	1,5
C13.26.	40	28	M16	6	5,5	2,5



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

- Notes**
- 1** Material: St37
 - 2** DIN 912 cl. 8.8
 - 3** Material: CK45
 - 4** DIN 127

COLLAR SCREW - SCHULTER-PASSSCHRAUBE - VITE CON COLLETTA



Notes

Material: Steel cl. 12.9

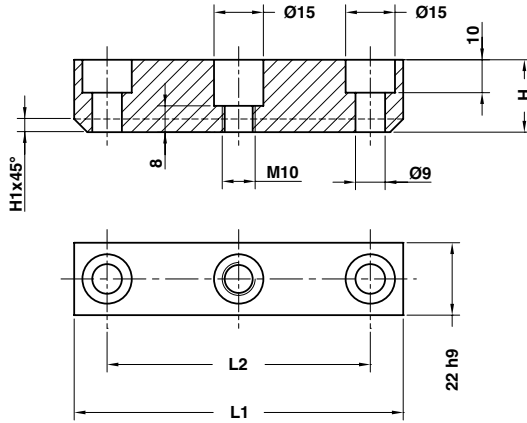
Standard OMCR



Art.	D1=6	L=10
C13.30.	06	010

M	M5	M6	M8	M10	M12	M16	M20
D1	6	8	10	12	16	20	24
D2	10	13	16	18	24	30	36
L1	9,5	11	13	16	18	22	27
L2	4,5	5,5	7	9	11	14	16
S	3	4	5	6	8	10	12
L							
10	•	•					
12	•	•					
15	•	•	•	•			
16	•	•	•	•			
20	•	•	•	•			
25	•	•	•	•			
30	•	•	•	•	•		
35	•	•	•	•	•		
40	•	•	•	•	•	•	
45	•	•	•	•	•	•	
50	•	•	•	•	•	•	•
55	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•
65		•	•	•	•	•	•
70		•	•	•	•	•	•
80		•	•	•	•	•	•
90		•	•	•	•	•	•
100		•	•	•	•	•	•
120				•	•	•	•

KEY - PASSFEDER - CHIAVETTA DI REAZIONE



Notes

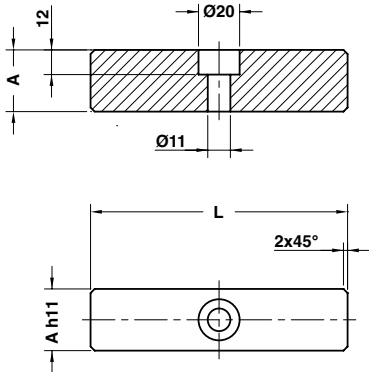
Material: CK45



Art.	H=14	L1=50
C14.09.	14	050

OMCR CODE	H	H1	L1	L2
C14.09.14050	14	-	50	32
C14.09.14080	14	-	80	50
C14.09.14100	14	-	100	80
C14.09.14125	14	-	125	100
C14.09.22050	22	4	50	32
C14.09.22080	22	4	80	50
C14.09.22100	22	4	100	80
C14.09.22125	22	4	125	100
C14.09.40050	40	4	50	32
C14.09.40080	40	4	80	50
C14.09.40100	40	4	100	80
C14.09.40125	40	4	125	100

KEY - PASSFEDER - CHIAVETTA DI REAZIONE



STOCK



Notes

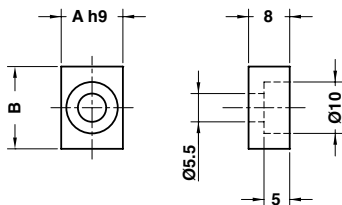
Material: CK45

ORDER EXAMPLE	Art.	A=25	L=80
	C14.10.	25	080

OMCR CODE	A	L
C14.10.25080	25	80
C14.10.25125	25	125
C14.10.30080	30	80
C14.10.30125	30	125

Standard OMCR

RETAINER - HALTESTÜCK - RITEGNO PER MATRICE



STOCK



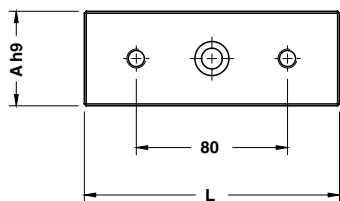
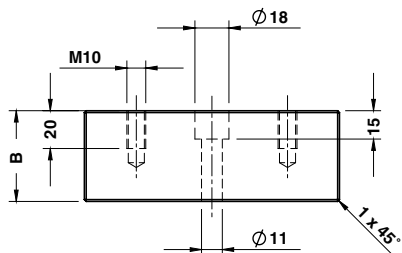
Notes

Material: CK45

ORDER EXAMPLE	Art.	A=12	B=16
	C14.11.	12	16

OMCR CODE	A	B
C14.11.1216	12	16

KEY - PASSFEDER - CHIAVETTA DI REAZIONE



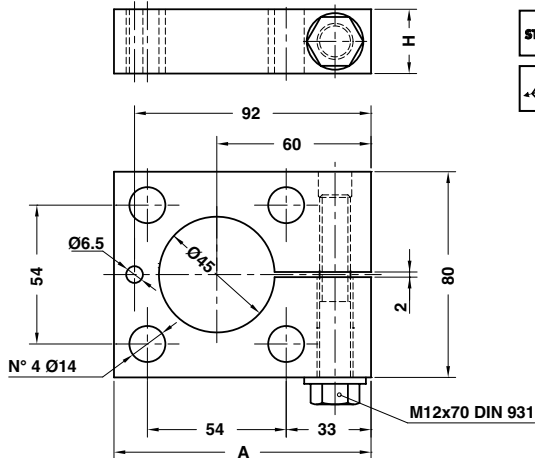
Notes
Material: CK45



Art.	A=50	L=135
C14.20.	50	135

OMCR CODE	A	B	L
C14.20.42125	42	40	125
C14.20.50135	50	48	135
C14.20.50220	50	48	220

CLAMP - BEFESTIGUNGSELEMENT - MORSETTO



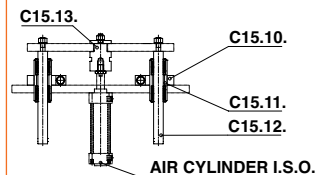
STOCK



Notes

Material: CK45

Application example

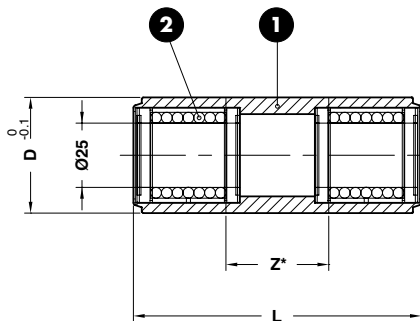


Art.	A=100	H=25
C15.10.	100	25

OMCR CODE	A	H
C15.10.10025	100	25

Standard OMCR

SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA



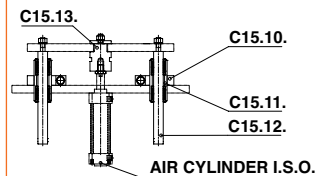
STOCK



Notes

- 1 Material: CK45
- 2 Material: STAR 0658-225-40

Application example

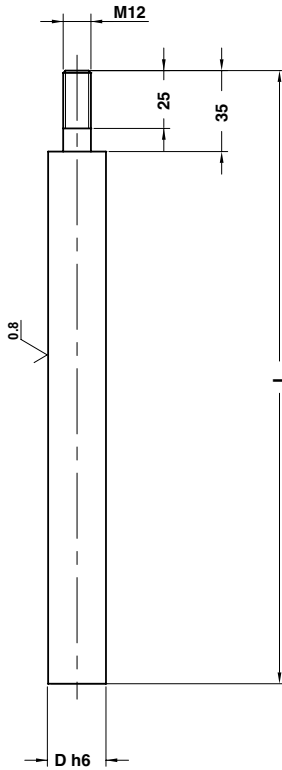


Art.	D=45	L=112
C15.11.	45	112

* Fixing zone
Befestigungsbereich Klammer
Zona di fissaggio

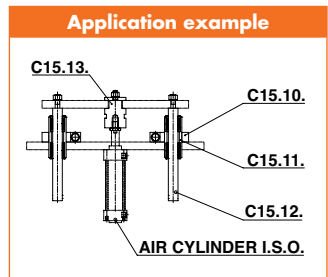
OMCR CODE	D	L	Z
C15.11.45112	45	112	40
C15.11.45200	45	200	120

GUIDE POST - FÜHRUNGSSAULE - COLONNA



Notes

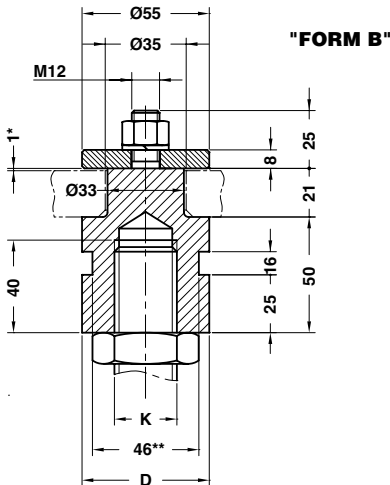
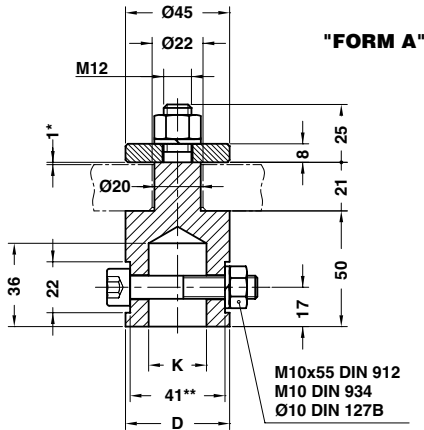
Material: CK45
HRC: 60÷62



	Art.	D=25	L=265
	C15.12.	25	265

OMCR CODE	D	L
C15.12.25265	25	265
C15.12.25350	25	350
C15.12.25400	25	400
C15.12.25450	25	450
C15.12.25500	25	500

UNION NUT - BEFESTIGUNGSELEMEN - DADO DI UNIONE



* Backlash Spiel
Gioco

** Spanner Schlüssel
Chiave

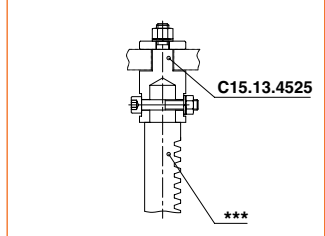
*** Rackwork
Zahnstange-antireb
Sollievatore a cremagliera



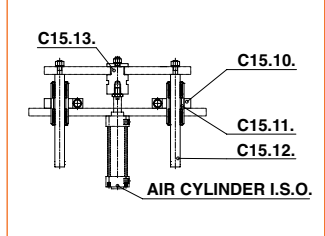
Notes

- 1 2 Material: CK45
- 3 DIN 934
- 4 DIN 127
- 5 M10x55 DIN 912
- 6 M10 DIN 934
- 7 Ø10 DIN 127B

Application example FORM A



Application example FORM B

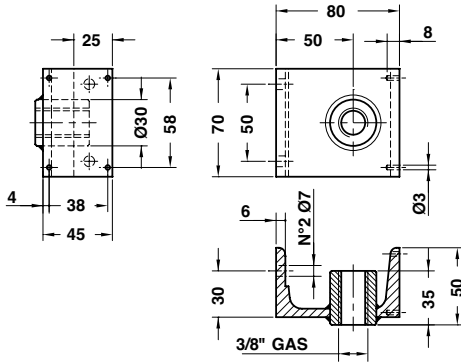


ORDER EXAMPLE	Art.	D=45	K=25
	C15.13.	45	25

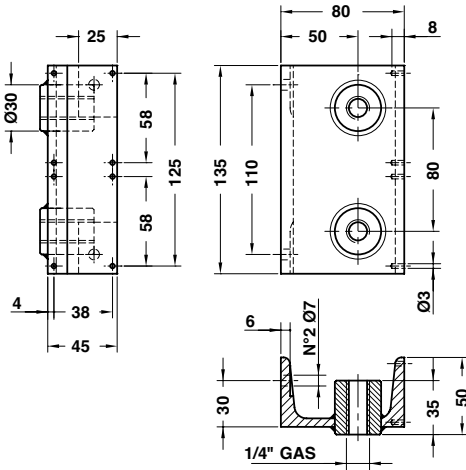
OMCR CODE	D	K	FORM
C15.13.4525	45	25	A
C15.13.5516	55	M16x1,5	B
C15.13.5520	55	M20x1,5	B
C15.13.5527	55	M27x2	B

AIR COUPLING BRACKET - LUFTANSCHLUSSBOCK - SUPPORTO INNESTI RAPIDI

"FORM A"



"FORM B"



Notes

Material: Si37



Art.	FORM
C15.14.	A

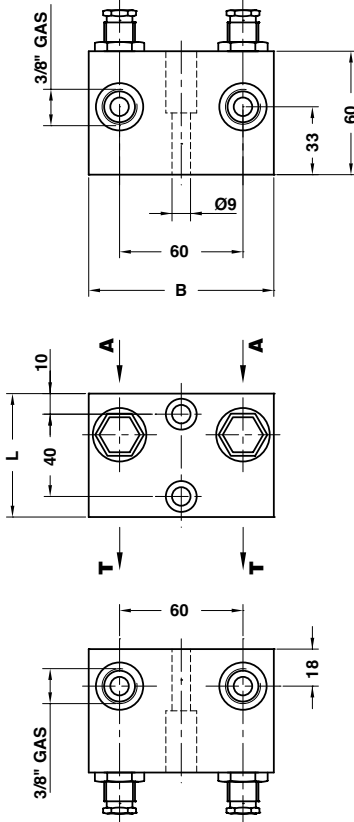
OMCR CODE FORM

C15.14.	A
C15.14.	B

FLUX CONTROL - VERTEILERBLOCK - REGOLATORE DI FLUSSO



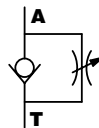
Standard OMCR



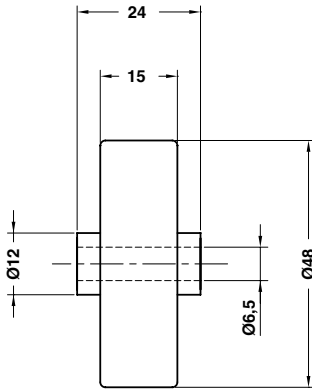
Notes
Material: CK45

ORDER EXAMPLE	Art.	A=60	B=90
	C15.15.	60	90

OMCR CODE	A	B
C15.15.6090	60	90



ROLLER - ROLLE - ROTELLA



Notes

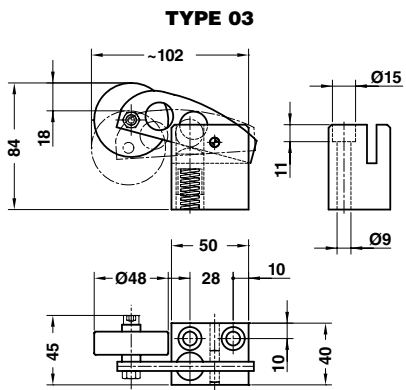
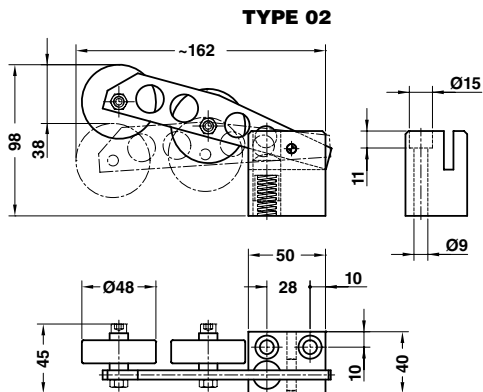
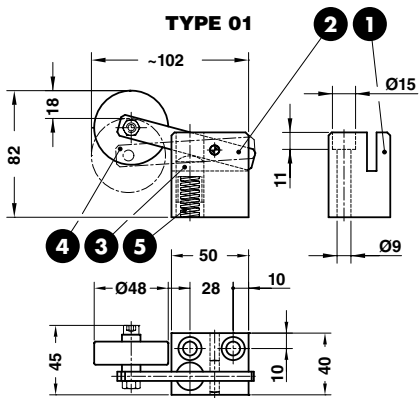
Material: Steel



Art.	D=48
C16.19.	48

OMCR CODE	D	Max Load (daN)
C16.19.	48	25

ROLLER STOCK LIFTER - FEDERENDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO

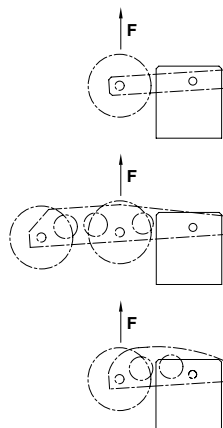


Notes

- 1** Material: C15
- 2** Material: S235JRG2K
- 3** Material: 42CrMo4
- 4** Material: Steel - C16.19.48
- 5** Spring

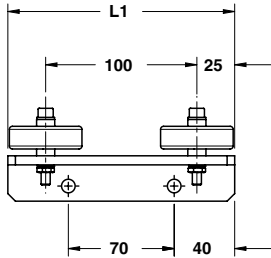
ORDER EXAMPLE	Art.	TYPE
	C16.20.	01

OMCR CODE	F (N)	TYPE
C16.20.01	66	01
C16.20.02	32	02
C16.20.03	66	03

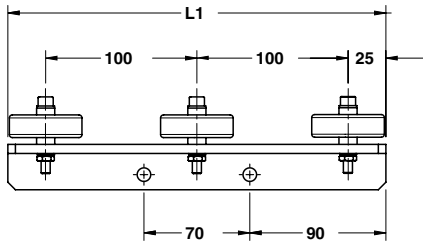


ROLLER GROUP - FÖRDERROLLE - GRUPPO RULLINI

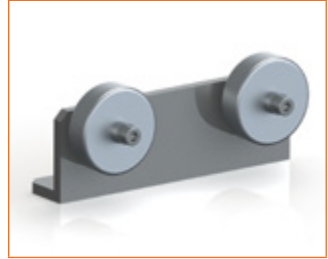
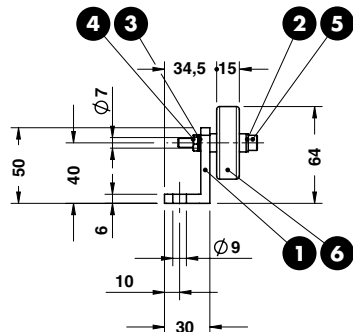
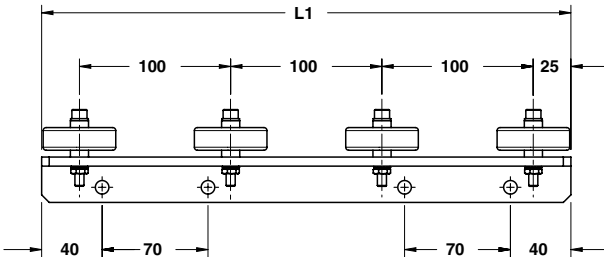
TYPE 01



TYPE 02



TYPE 03



Notes

- 1 Material: St37
- 2 3 Washers for M6
- 4 Nut for M6
- 5 Screw M6x40 DIN 912
- 6 Material: Steel - C16.19.48

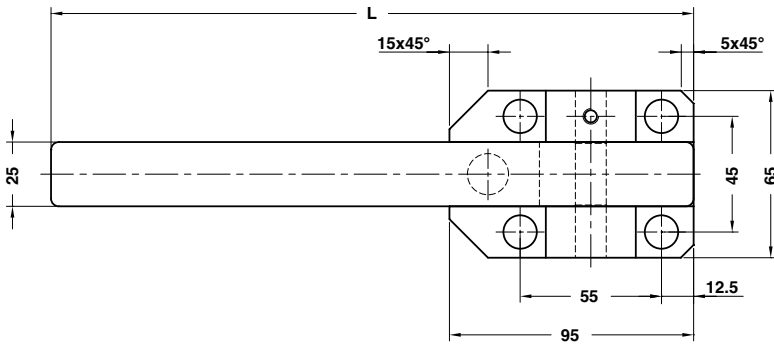
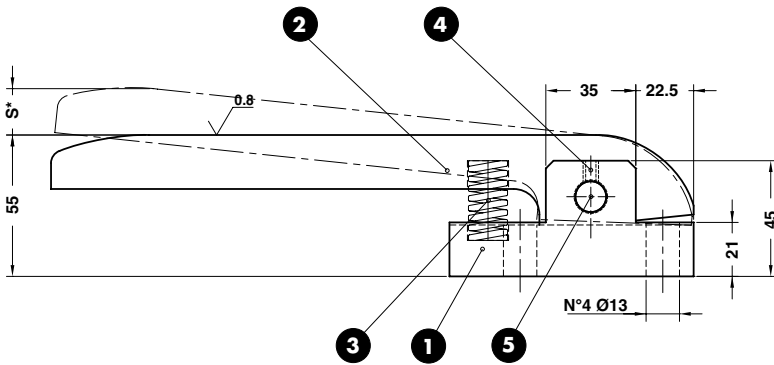
ORDER EXAMPLE	Art.	L1
	C16.21.	150

OMCR CODE	L1	TYPE	Max Load (daN)
C16.21.150	150	01	50
C16.21.250	250	02	75
C16.21.350	350	03	100

COIL SUPPORT - ABSTREIFER - SOLLEVATORE NASTRO

Notes

- 1 Material: CK45
- 2 Material: Bronze - HB>190
- 3 SPRING
- 4 M6x8 DIN 913
- 5 Ø12x60 DIN 6325

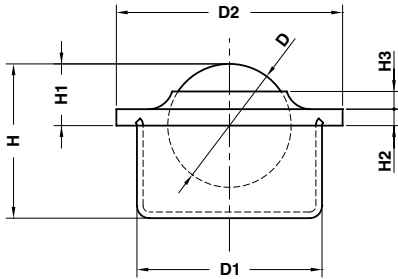


ORDER EXAMPLE	Art.	TYPE
	C16.25.	01

OMCR CODE	L	S	Spring	Spring initial force (daN)	Spring final force (daN)	TYPE
C16.25.01	250	18	TV016044	7,9 N	12,3 N	01
C16.25.02	250	18	B16044	27 N	42 N	02
C16.25.03	300	30	B16044	24 N	42 N	03

Standard OMCR

BALL CASTER - KUGELROLLENSYSTEM - SFERA PORTANTE



STOCK



Notes

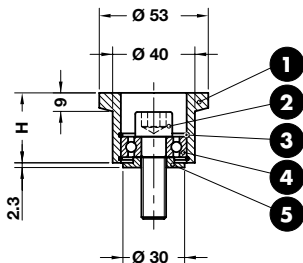
Material: Steel



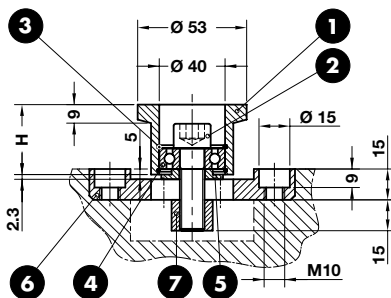
Art.	D=15
C16.26.	15

OMCR CODE	D	D1	D2	Max load (daN)	H	H1	H2	H3
C16.26.15	15	24±0,065	31	50	21,5	9,5±0,2	2,8	3,5
C16.26.30	30	45±0,080	55	250	37,5	13,8±0,3	4	4,3

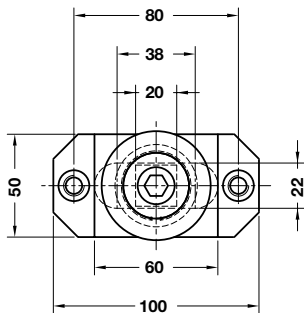
COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO



TYPE 01



TYPE 02



TYPE 01



Notes TYPE 01

- 1 Material: 16MnCr5 - HRC: 55÷58
- 2 M12x40 DIN 472
- 3 Material: I32 DIN 472
- 4 Material: 6201 2Z VA DIN 625
- 5 Material: CK45



TYPE 02



Notes TYPE 02

- 1 Material: 16MnCr5 - HRC: 55÷58
- 2 M12x40 DIN 472
- 3 Material: I32 DIN 472
- 4 Material: 6201 2Z VA DIN 625
- 5 Material: CK45
- 6 Material: St37
- 7 Material: CK45

ORDER EXAMPLE	Art.	TYPE	H=17
	C16.27.	01	17

OMCR CODE	TYPE	H
C16.27.01.17	01	17
C16.27.01.34	01	34
C16.27.01.54	01	54
C16.27.02.17	02	17
C16.27.02.34	02	34
C16.27.02.54	02	54

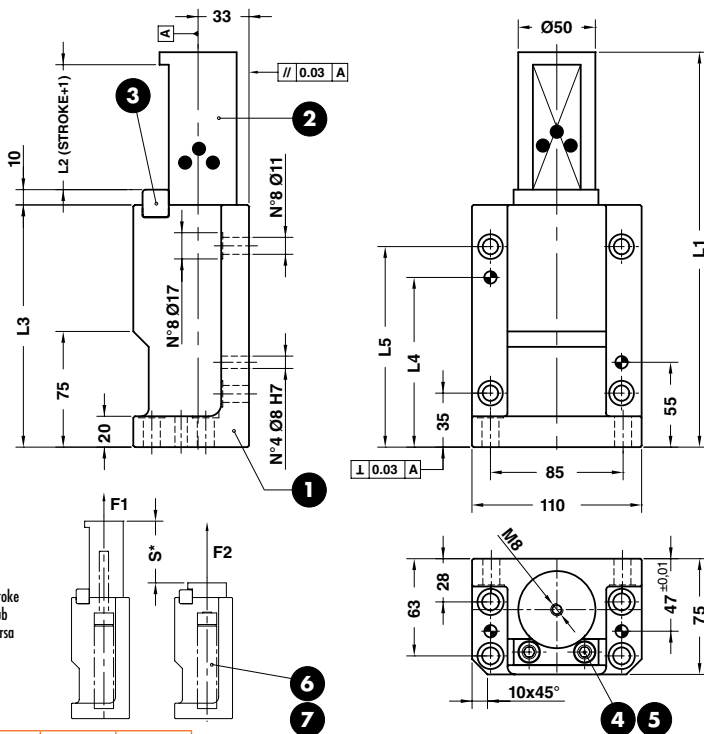
FLANGE LIFTER - ABSTREIFER - SFLANGIATORE



Do not exceed the stroke
Hub nicht überschreiten
Non superare la corsa

Notes

- 1 **Material:** EN-GJL300
- 2 **Material:** Bronze + Graphite - HB>190
- 3 **Material:** 36NiCrMo4
- 4 M8x30 DIN 912
- 5 Schnorr Ø8
- 6 Gas Spring
- 7 M6x12 DIN 7991



* Stroke
Hub
Corsa



Art.	S=50	F1=50
C16.30.	50	050

OMCR CODE	F1 (daN)	F2 (daN)	L1	L2	L3	L4	L5	S
C16.30.50050	50	86	196	51	127	80	100	50
C16.30.50100	100	172	196	51	127	80	100	50
C16.30.50150	150	258	196	51	127	80	100	50
C16.30.50200	200	344	196	51	127	80	100	50
C16.30.80050	50	86	256	81	157	110	130	80
C16.30.80100	100	172	256	81	157	110	130	80
C16.30.80150	150	258	256	81	157	110	130	80
C16.30.80200	200	344	256	81	157	110	130	80

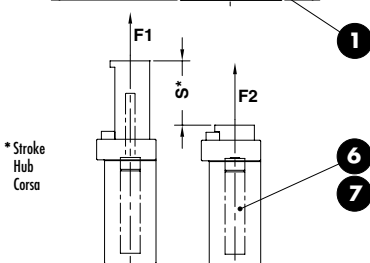
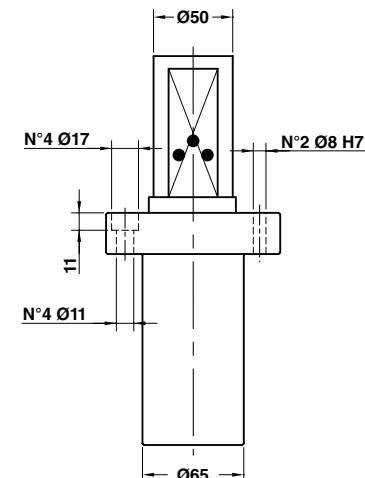
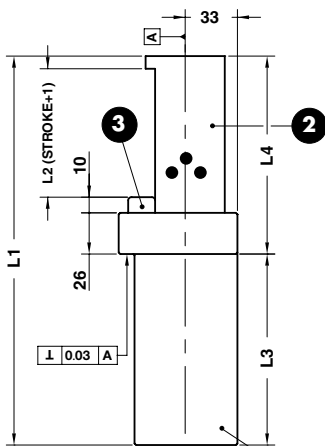
FLANGE LIFTER - ABSTREIFER - SFLANGIATORE



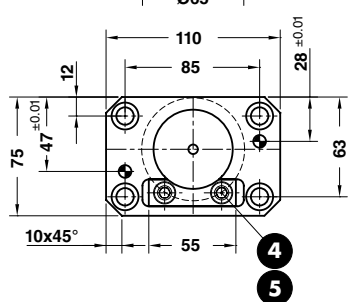
Do not exceed the stroke
Hub nicht überschreiten
Non superare la corsa

Notes

- 1** Material: EN-GJL300
- 2** Material: Bronze + Graphite - HB>190
- 3** Material: 36NiCrMo4
- 4** M8x30 DIN 912
- 5** Schnorr Ø8
- 6** Gas Spring
- 7** M6x12 DIN 7991



* Stroke
Hub
Corsa



Art.	S=50	F1=50
C16.31.	50	050

OMCR CODE	F1 (daN)	F2 (daN)	L1	L2	L3	L4	S
C16.31.50050	50	86	196	51	101	95	50
C16.31.50100	100	172	196	51	101	95	50
C16.31.50150	150	258	196	51	101	95	50
C16.31.50200	200	344	196	51	101	95	50
C16.31.80050	50	86	256	81	131	125	80
C16.31.80100	100	172	256	81	131	125	80
C16.31.80150	150	258	256	81	131	125	80
C16.31.80200	200	344	256	81	131	125	80

Standard OMCR

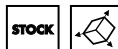
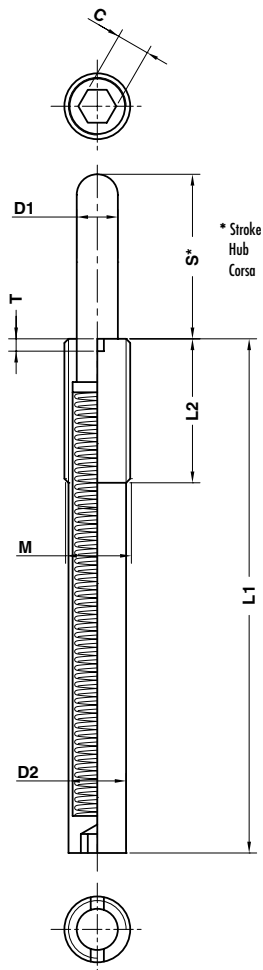
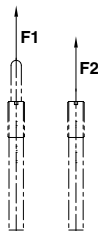


SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA

Spring plungers can be fitted/
removed by means of the slot or
internal hexagon.

Montage/demontage mit
Innensechskant und Schlitz
möglich.

Il montaggio/smontaggio
avviene sia tramite l'esagono
incassato, che tramite l'intaglio
frontale.



Notes

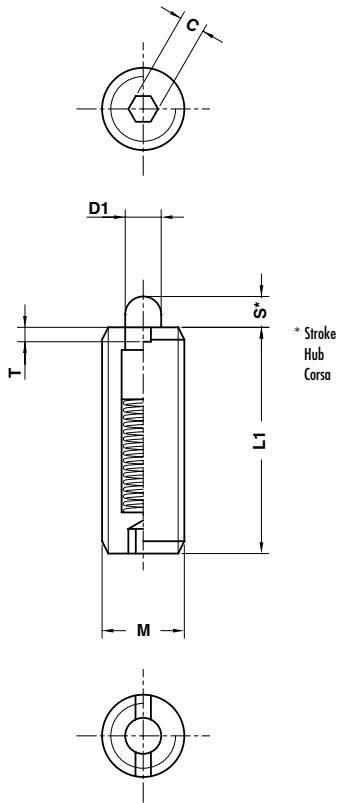
Material: Steel



Art.	M=M16	S=40
C16.40.	M16	40

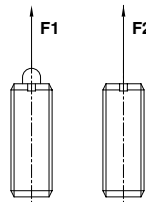
OMCR CODE	C	D1	D2	F1 (N)	F2 (N)	L1	L2	M	S	T
C16.40.M1210	4	5,5	9,5	7	40	45	35	M12	10	2
C16.40.M1615	5	8	13,4	15	80	60	35	M16	15	3
C16.40.M1620	5	8	13,4	17	80	85	35	M16	20	3
C16.40.M1630	5	8	13,4	20	80	125	35	M16	30	3
C16.40.M1640	8	8	13,4	20	80	125	35	M16	40	3
C16.40.M1650	8	8	13,4	30	100	155	35	M16	50	3
C16.40.M1660	8	8	13,4	20	80	155	35	M16	60	3
C16.40.M2415	8	10	19,6	40	200	60	45	M24	15	3
C16.40.M3020	12	15	22,5	50	300	80	45	M30	20	3

SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA



Notes

Material: Steel

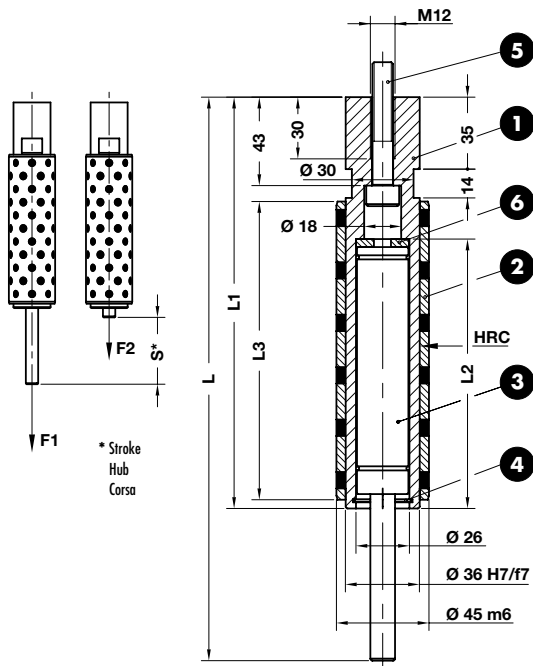


Standard OMCR

ORDER EXAMPLE	Art.	M=M3
	C16.45.	M03

OMCR CODE	C	D1	F1 (N)	F2 (N)	L1	M	S	T
C16.45.M03	0,7	1	2	4	10	M3	1,5	0,5
C16.45.M04	1,3	1,6	5	16	12	M4	2	0,6
C16.45.M05	1,5	2	6	19	20	M5	3	0,8
C16.45.M06	2	2,5	6	19	25	M6	3	0,9
C16.45.M08	2,5	3,1	10	39	25	M8	4	1,4
C16.45.M10	3	3,8	10	39	30	M10	5	1,4
C16.45.M12	4	5,5	12	53	30	M12	5	2

SPRING RAMS - FEDERBOLZEN - SOLLEVATORE



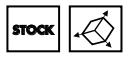
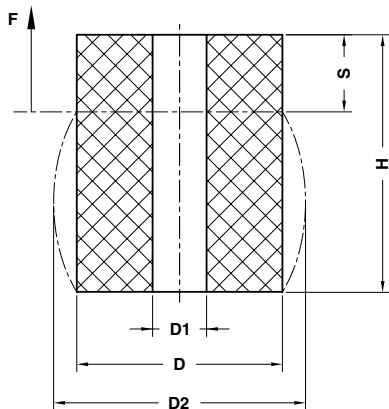
Notes

- 1 Material: CK45 - HRC: 58÷62
- 2 Material: Bronze+Graphite - HB>190
- 3 Gas Spring
- 4 DIN 472
- 5 M10x60 DIN 912
- 6 Material: 90MnCrV8 - HRC: 54÷60

ORDER EXAMPLE	Art.	S=50	F1=50
	C16.50.	50	050

OMCR CODE	F1 (daN)	F2 (daN)	L	L1	L2	L3	S
C16.50.50050	50	68	240	182	118	115	50
C16.50.50100	100	136	240	182	118	115	50
C16.50.50150	150	204	240	182	118	115	50
C16.50.50200	200	272	240	182	118	115	50
C16.50.65050	50	68	274	200	135	145	65
C16.50.65100	100	136	274	200	135	145	65
C16.50.65150	150	204	274	200	135	145	65
C16.50.65200	200	272	274	200	135	145	65
C16.50.80050	50	68	314	220	155	170	80
C16.50.80100	100	136	314	220	155	170	80
C16.50.80150	150	204	314	220	155	170	80
C16.50.80200	200	272	314	220	155	170	80

ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO



S = max. 30% H

Notes
Material: Elastomer 92SH

Standard OMCR



Art.	D=63	H=80
C17.10.	063	080

D	16	20	25	32	40	50	63	80	100	125
D1	6,5	8,5	10,5	13,5	13,5	17	17	21	21	27
D2	19	26	30	41	50	62	78	98	120	152
F (daN)	130	200	300	580	1250	1700	2600	4300	5900	9900

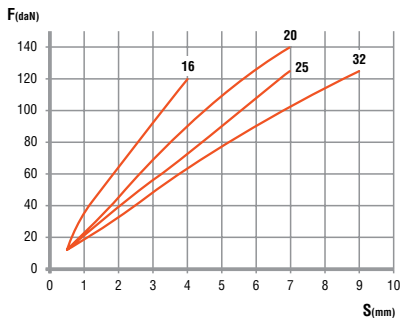
H	16	20	25	32	40	50	63	80	100	125	160
16	•	•	•	•							
20	•	•	•	•	•						
25	•	•	•	•	•	•					
32	•	•	•	•	•	•	•				
40		•	•	•	•	•	•	•			
50			•	•	•	•	•	•	•		
63				•	•	•	•	•	•	•	
80					•	•	•	•	•	•	•
100						•	•	•	•	•	•
125							•	•	•	•	•
160								•	•	•	•

S	4,8	6	7,5	9,6	12	15	19	24	30	37,5	48
4,8	•	•	•	•							
6	•	•	•	•	•						
7,5	•	•	•	•	•	•					
9,6	•	•	•	•	•	•	•				
12		•	•	•	•	•	•	•			
15			•	•	•	•	•	•	•		
19				•	•	•	•	•	•	•	
24					•	•	•	•	•	•	•
30						•	•	•	•	•	•
37,5							•	•	•	•	•
48								•	•	•	•

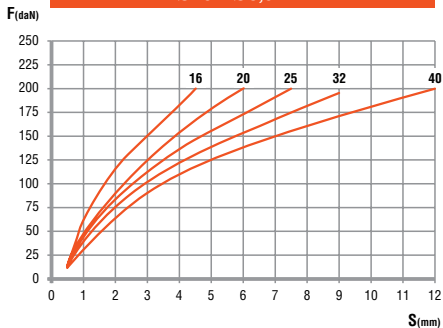


LOAD DIAGRAMS FOR ELASTOMER SPRINGS 92SH
KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 92SH
DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 92SH

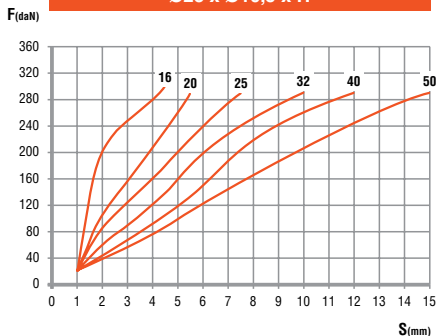
Ø16 x Ø6,5 x H



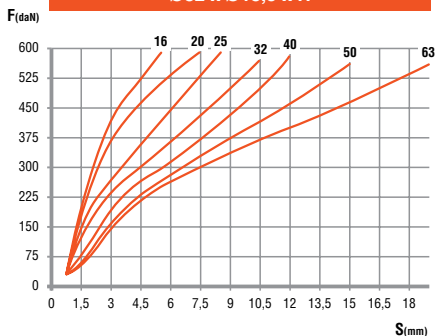
Ø20 x Ø8,5 x H



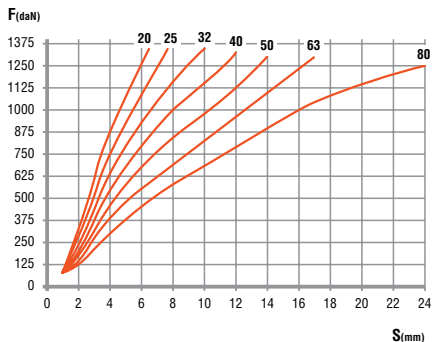
Ø25 x Ø10,5 x H



Ø32 x Ø13,5 x H

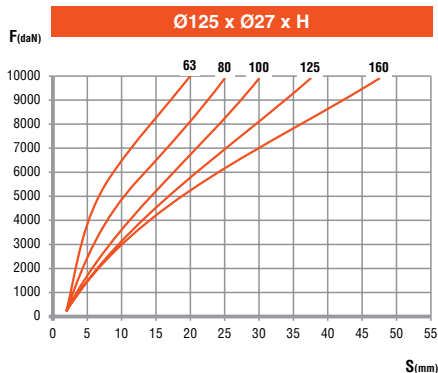
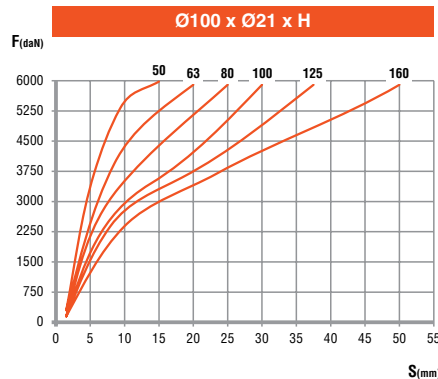
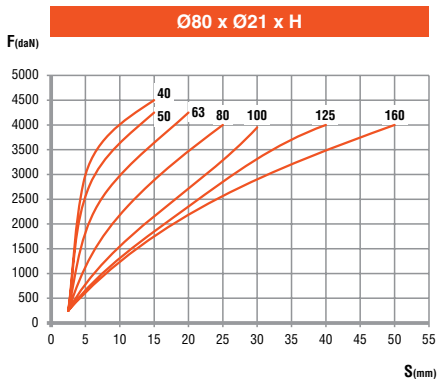
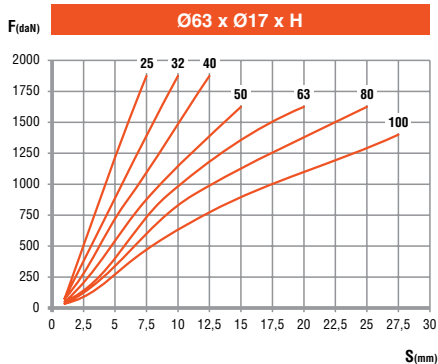
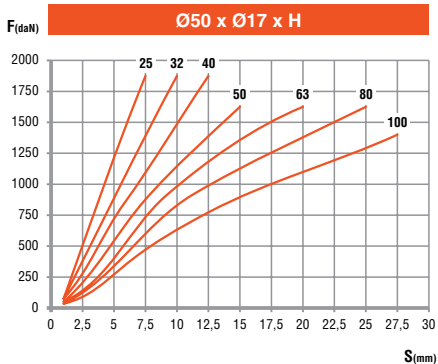


Ø40 x Ø13,5 x H

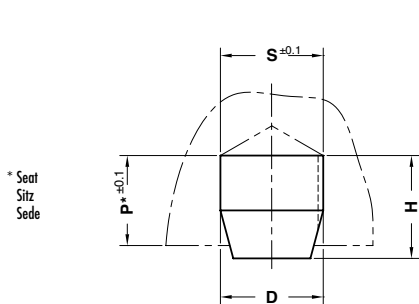


LOAD DIAGRAMS FOR ELASTOMER SPRINGS 92SH
KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 92SH
DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 92SH

Standard OMCR



ELASTOMER CAP - ELASTOMERDRUCKSTÜCK - PUNTALINO IN ELASTOMERO



Notes

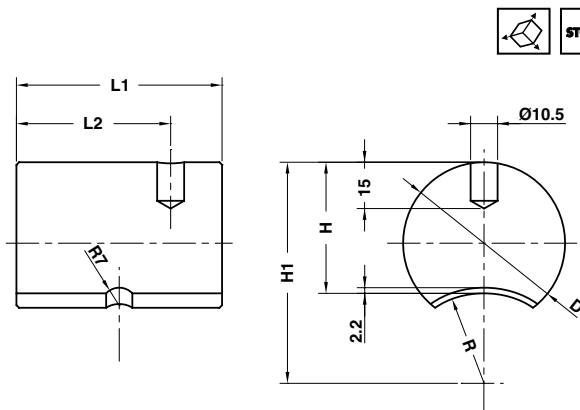
Material: Elastomer 92SH



Art.	S=6	H=10
C17.20.	06	10

OMCR CODE	D	F max. (N)	H	P	S
C17.20.0610	6,2	100	10	8	6
C17.20.1015	10,3	450	15	13	10
C17.20.1625	16,4	1500	25	21	16
C17.20.2425	24,7	3000	25	20	24
C17.20.4040	40,8	25000	40	35	40

SHOCK ABSORBER - HALTELEMENT - AMMORTIZZATORE



Notes

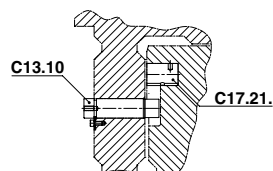
Material: Elastomer 92SH



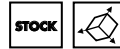
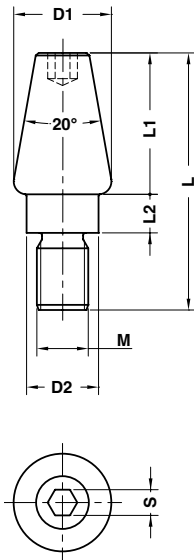
Art.	D=50	L1=80
C17.21.	50	80

OMCR CODE	D	H	H1	L1	L2	R
C17.21.4060	40	32	50	60	45	18
C17.21.5080	50	40	63	80	60	23
C17.21.6380	63	51	86	80	60	35

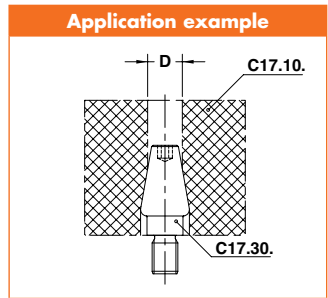
Application example



ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE



Notes
Material: CK45



Standard OMCR



Art.	D1	M=M16
C17.30.	32	M16

OMCR CODE	D	D1	D2	L	L1	L2	M	S
C17.30.28M12	17	28	19	56	30	8	M12	6
C17.30.32M16	21	32	22	74	40	10	M16	8
C17.30.38M20	27	38	28	100	55	15	M20	10

WASHER FOR ELASTOMER SPRING - FEDERSCHEIBE - RONDELLA PER MOLLE IN ELASTOMERO



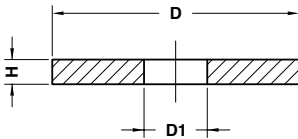
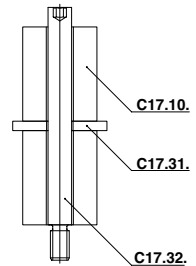
STOCK



Notes

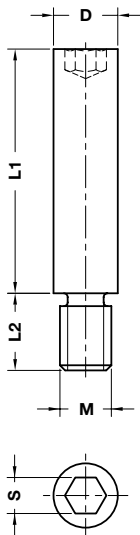
Material: CK45

Application example

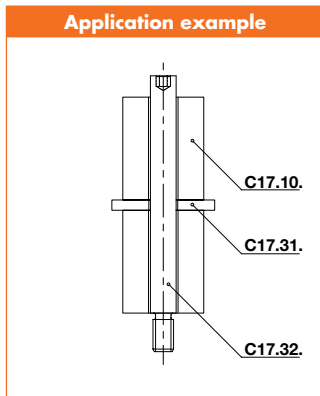


Art.	D=20
C17.31.	020

OMCR CODE	D	D1	H
C17.31.020	20	6,5	4
C17.31.025	25	8,5	4
C17.31.030	30	10,5	5
C17.31.040	40	13,5	5
C17.31.050	50	13,5	5
C17.31.060	60	16,5	6
C17.31.080	80	16,5	6
C17.31.100	100	20,5	8
C17.31.120	120	20,5	8
C17.31.150	150	26	8



Notes
Material: CK45

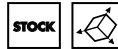
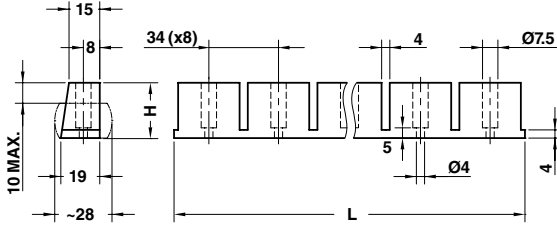


Standard OMCR

ORDER EXAMPLE 	Art.	D=6	L1=20
	C17.32.	06	020

D	6	8	10	13	16	20	25
L2	6	9	15	15	18	25	30
M	M4	M6	M8	M10	M12	M16	M20
S	3	4	5	6	8	10	14

L1							
20	•	•	•				
25	•	•	•				
32	•	•	•	•			
40		•	•	•	•	•	•
50		•	•	•	•	•	•
63			•	•	•	•	•
80				•	•	•	•
95				•	•	•	•
118					•	•	•
140					•	•	•
180							•

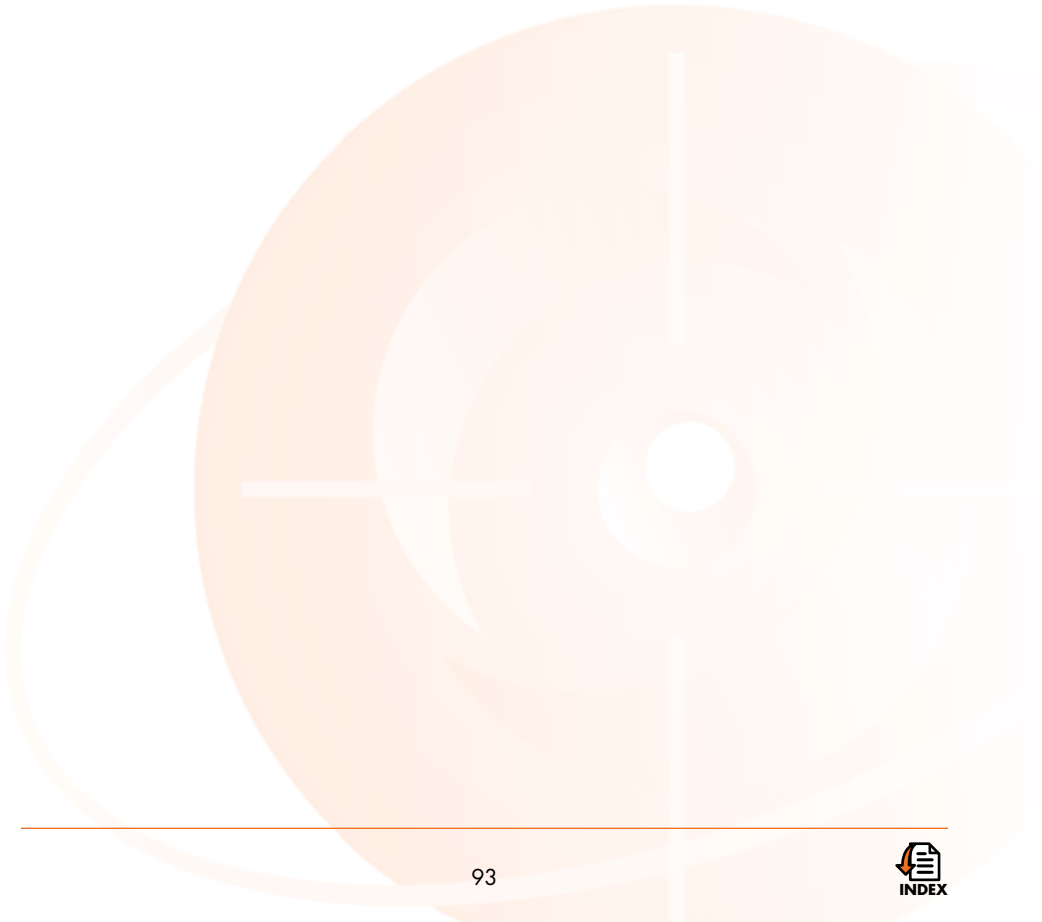


Notes

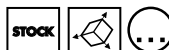
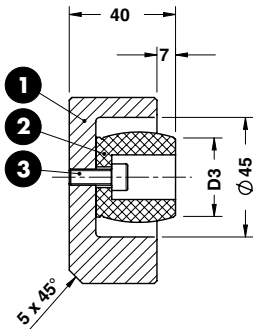
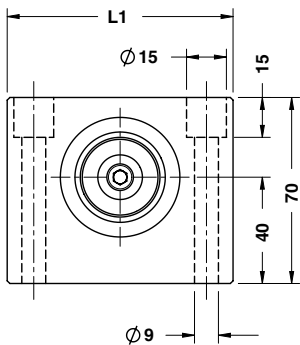
Material: Elastomer 70 SH

ORDER EXAMPLE	Art.	H=27	L=306
	C17.40.	27	306

OMCR CODE	H	L
C17.40.27306	27	306

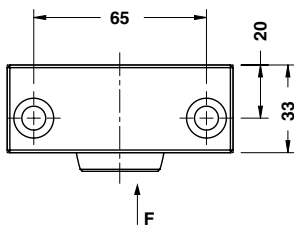


ANTI-REBOUND SLIDE STOP - ARRETERUNG GEGEN RÜCKFEDERUNG - ARRESTO ANTRIMBALZO



Notes

- 1 Material: CK45
- 2 Material: CO-Polyester Elastomer
- 3 M6x12 DIN 912

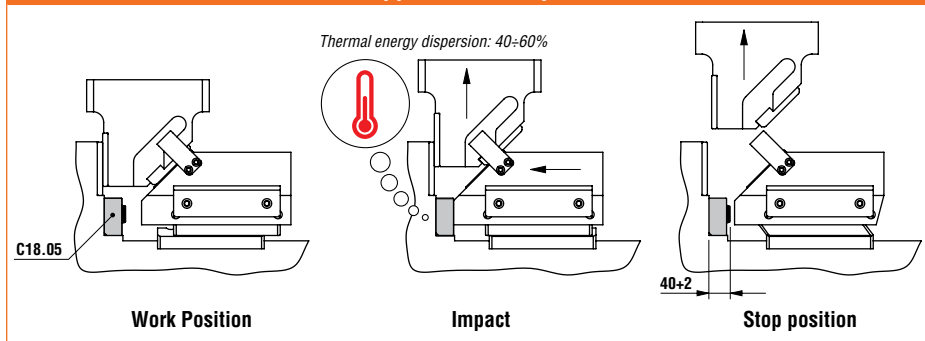


* Energieaufnahme
Massima energia assorbita

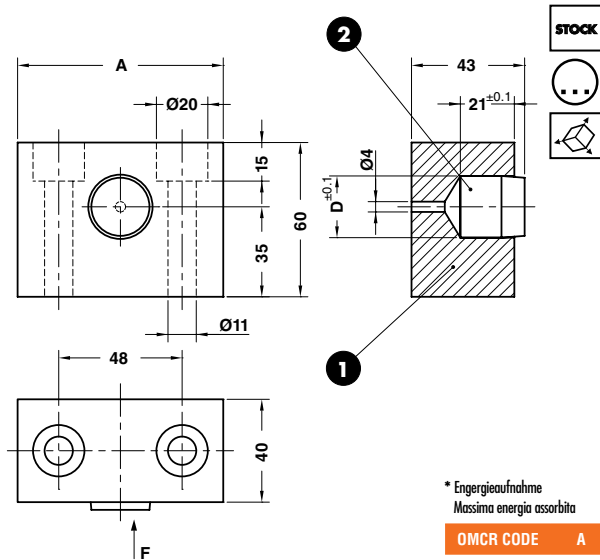
ORDER EXAMPLE	Art.	L1=85	D3=30
	C18.05.	85	30

OMCR CODE	L1	D3	F max (kN)	Max Energy Absorbed (J)*
C18.05.8530	85	30	6	27

Application example



SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA



- Notes**
- 1 **Material:** CK45
 - 2 C17.20.2425

* Engergieaufnahme
Massima energia assorbita

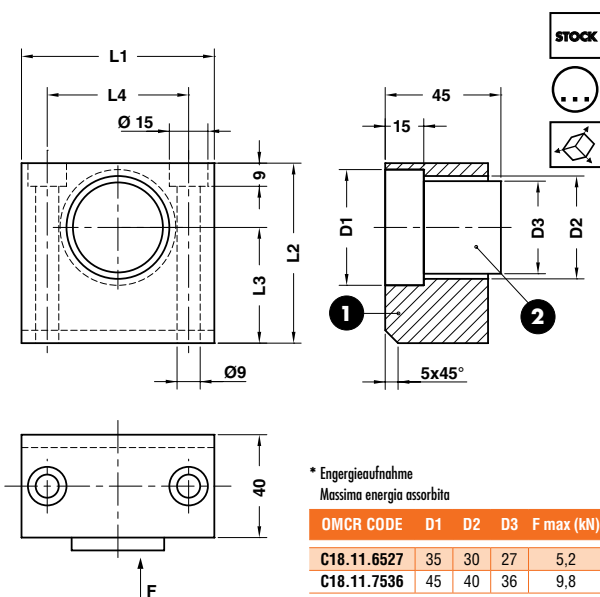


Art.	A=80	D=24
C18.10.	80	24

OMCR CODE	A	D	F max (kN)	Max Energy Absorbed (J)*
C18.10.8024	80	24	3	4,8

Standard OMCR

SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA



- Notes**
- 1 **Material:** CK45
 - 2 **Material:** Elastomer 90 SH

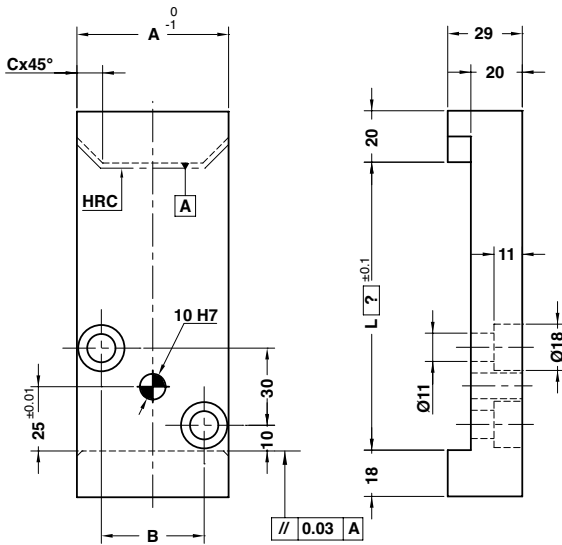
* Engergieaufnahme
Massima energia assorbita



Art.	L1=65	D3=27
C18.11.	65	27

OMCR CODE	D1	D2	D3	F max (kN)	L1	L2	L3	L4	Max Energy Absorbed (J)*
C18.11.6527	35	30	27	5,2	65	60	40	45	13
C18.11.7536	45	40	36	9,8	75	70	45	55	24,5

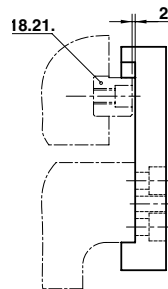
POSITIVE RETURN PLATE - ZWANGSRÜCKHOLER - GANCIO DI SICUREZZA



Notes

Material: CK45 - HRC: 52÷54

Application example



Art.	A=35	L=?
C18.20.	35	80

OMCR CODE	A	B	C
C18.20.35	35	15	7
C18.20.60	60	40	10

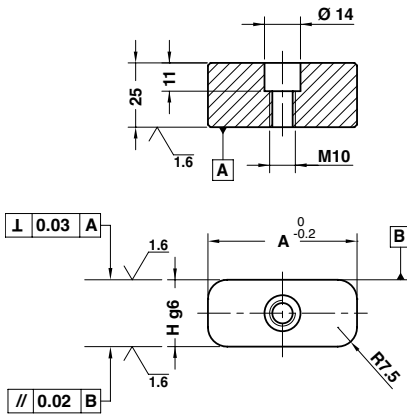
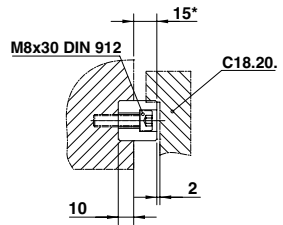
KEY - PASSFEDER - CHIAVETTA



Notes

Material: 90MnCrV8 - HRC: 58±60

Application example



* For adjustment
Für umrüsten
Per adattamento



Art.	H=26	A=35
C18.21.	26	35

OMCR CODE	H	A
C18.21.2635	26	35
C18.21.2660	26	60

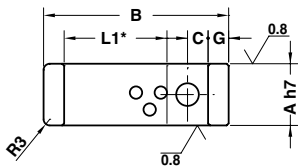
CAM BLANK-HOLDER GUIDE - FÜHRUNG FÜR ZIEHKISSEN - GUIDA PER PREMILAMIERA

Notes

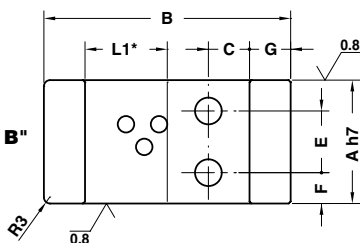
Material: Bronze + Graphite - HB >190



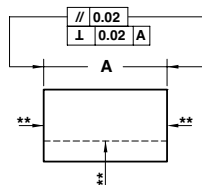
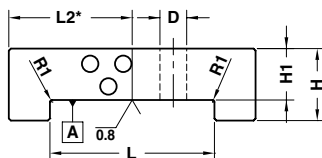
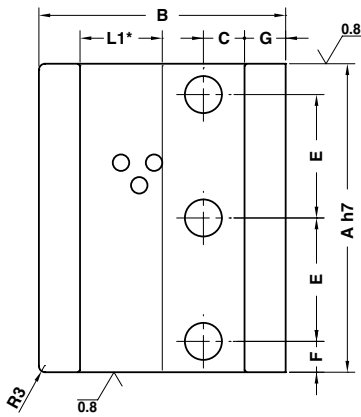
"FORM A"



"FORM B"



"FORM C"



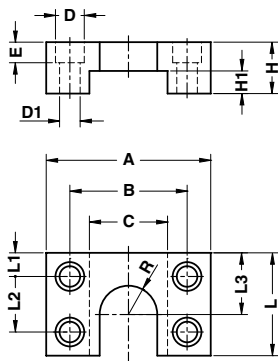
Art.	A=30	B=70
C18.25.	030	070

* Surface with solid lubricant / Oberfläche mit Festschmierstoff / Superficie con inserti autolubrificanti

** Sliding Surface / Geißfläche / Superficie di Scorrimento

OMCR CODE	A	B	C	D	E	F	G	H	H1	L	L1	L2	FORM
C18.25.030070	30	70	10	11	-	-	10	17	12	50	30	40	A
C18.25.030090	30	90	10	11	-	-	10	17	12	70	50	60	A
C18.25.045070	45	70	10	11	22	11,5	10	25	15	50	30	40	B
C18.25.045090	45	90	10	11	22	11,5	10	25	15	70	50	60	B
C18.25.060120	60	120	20	13	30	15	20	35	25	80	40	60	B
C18.25.060140	60	140	20	13	30	15	20	35	25	100	60	80	B
C18.25.060160	60	160	20	13	30	15	20	35	25	120	80	100	B
C18.25.100120	100	120	20	18	70	15	20	35	25	80	40	60	B
C18.25.100140	100	140	20	18	70	15	20	35	25	100	60	80	B
C18.25.100160	100	160	20	18	70	15	20	35	25	120	80	100	B
C18.25.150120	150	120	20	18	60	15	20	35	25	80	40	60	C
C18.25.150140	150	140	20	18	60	15	20	35	25	100	60	80	C
C18.25.150160	150	160	20	18	60	15	20	35	25	120	80	100	C
C18.25.150180	150	180	20	18	60	15	20	35	25	140	100	120	C

COUPLING PLATE – BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE



Notes

Material: CK45

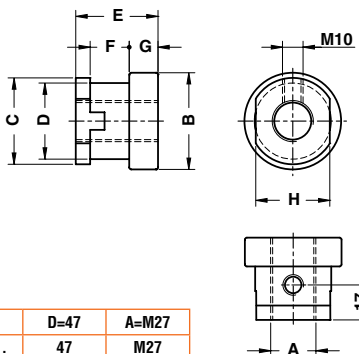


Art.	A=80	R=14
C18.30.	080	14

OMCR CODE	A	B	C	D	D1	E	H	H1	L	L1	L2	L3	R
C18.30.08014	080	57	38	18	11	10	25	11	50	11,5	27	30	14
C18.30.10020	100	75	50	20	13	12	32	15	55	12,5	30	35	20
C18.30.12025	120	88	60	26	17	16	40	20	65	16	33	45	25
C18.30.15033	150	114	80	33	22	26	45	20	100	18	64	64	33

C18.31

COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIAMENTO STAFFA



Notes

Material: CK45



Art.	D=47	A=M27
C18.31.	47	M27

OMCR CODE	A	B	C	D	E	F	G	H	Air cyl. (I.S.O.) bore size	Using with coupling plate
C18.31.25M10	M10x1,25	35	30	25	30	16	10	24	32	C18.30.08014
C18.31.25M12	M12x1,25	35	30	25	30	16	10	24	40	C18.30.08014
C18.31.37M16	M16x1,5	47	42	37	40	19	14	36	50, 63	C18.30.10020
C18.31.37M20	M20x1,5	47	42	37	40	19	14	36	80, 100	C18.30.10020
C18.31.37M27	M27x2	47	42	37	40	19	14	36	125	C18.30.10020
C18.31.47M27	M27x2	57	52	47	50	24	19	46	125	C18.30.12025
C18.31.47M36	M36x2	57	52	47	50	24	19	46	160, 200	C18.30.12025
C18.31.59M42	M42x2	76	64	59	76	50	19	60	250	C18.30.15033





OMCR®







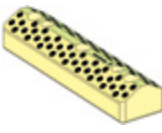
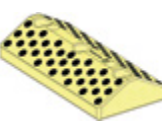

STANDARD DIE COMPONENTS



STANDARD



B2 2101 16	B2 2305 14	B2 2305 17	B2 2305 22	B2 2305 23
				
Bush for lifting pin Buchse für Tragbolzen Boccola per perno di sollevamento	Gage Einweiser Riferimento	Gage Einweiser Riferimento	Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore	Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore
106	106	107	107	108
B2 2305 24	B2 2506 12	B2 2604 12	B2 2615 12	B2 2615 12a
				
Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore	Hook for chute Haken Gancio	Air pin Druckbolzen Candela	Air pin Druckbolzen Candela	Air pin Druckbolzen Candela
108	109	110	111	111
B2 2625 11	B2 2625 11	B2 2705 11	B2 2705 11	B2 2708 11
				
Retainer Sicherungsplatte Piastrina	Retainer Sicherungsplatte Piastrina	Stop block Abstandsblock Distanziale	Stop block Abstandsblock Distanziale	Spacer Distanzstück Distanziale
112	112	113	113	114
B2 2709 11	B2 2709 20	B2 2715 11	B2 2715 11	B2 2715 14
				
Backing plate Distanzkappe Reazione per cilindro	Backing plate Distanzkappe Reazione per cilindro	Locating cone Kegeldistanz Cono di centraggio	Shim Ausgleichscheib Spessore	Locating cone Kegeldistanz Cono di centraggio
115	115	116	116	117

<p>B2 2715 14</p>  <p>Shim Ausgleichs Scheib Spessore</p> <p>117</p>	<p>B2 2717 12a-13a</p>  <p>Spacer plate toothed Distanzplatte gezahnt Tassello di compensazione</p> <p>118</p>	<p>B2 2904 9</p>  <p>Retainer Sicherungsplatte Piastrina</p> <p>118</p>	<p>B2 2904 11</p>  <p>Retaining bolt Sicherungsbolzen Perno di bloccaggio</p> <p>119</p>	<p>B2 2920 1</p>  <p>Guide post Führungssäule Colonna guida</p> <p>120</p>
<p>B2 2920 1</p>  <p>Guide post Führungssäule Colonna guida</p> <p>121</p>	<p>B2 2920 2</p>  <p>Guide post Führungssäule Colonna guida</p> <p>122</p>	<p>B2 2920 2</p>  <p>Guide post Führungssäule Colonna guida</p> <p>123</p>	<p>B2 2920 1-2</p>  <p>Washer Federscheibe Rondella per colonne</p> <p>124</p>	<p>B2 2933 1</p>  <p>Guide bush DIN 9834 Führungsbuchse DIN 9834 Boccola DIN 9834</p> <p>124</p>
<p>B2 2960 12</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>125</p>	<p>B2 2960 12</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>126</p>	<p>B2 2961 11</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>127</p>	<p>B2 2961 11</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>128</p>	<p>B2 2969 11</p>  <p>Gib VDI 3387 Führungslasche VDI 3387 Guida VDI 3387</p> <p>129</p>
<p>B2 2975 11</p>  <p>Guide bar VDI 3357 Führungsleiste VDI 3357 Lardone VDI 3357</p> <p>129</p>	<p>B2 2978 21</p>  <p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p> <p>130</p>	<p>B2 2978 21</p>  <p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p> <p>130</p>	<p>B2 2978 21</p>  <p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p> <p>131</p>	<p>B2 2978 21</p>  <p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p> <p>131</p>

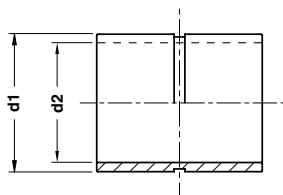
B2 2978 22	B2 2983 11	B2 3001 16	B2 3302 21	B2 3302 21
Distance plate for "V" driver Höhenausgleich für Prismenführung Distanziale per guida a "V"	Toe clamp Haltestück Ritegno per boccaola	Slide stop block Schieberranschlag Arresto slitta	Coupling plate Befestigungsplatte Staffa di reazione	Coupling nut Kupplungsmutter Aggancio staffa
132	132	133	134	134
B2 3602 15	B2 3602 15	B2 3765 1	B2 3925 11	B2 4010 1
Shim Ausgleichscheibe Spessore	Visual locator setting punch Stempel f. entgasungsnoppen Punzone di visualizzazione	Key Passfeder Chiavetta	Elastomer spring pin Aufnahmebolzen Perno per molle	Backing plate Distanzkappe Reazione per cilindro
135	135	136	136	137
B2 4068 1	B2 4068 2	B2 4069 1	B2 5601 11	B2 5602 11
Locating pin Zentrierbolzen Centraggio	Locating pin Zentrierbolzen Centraggio	Key Passfeder Chiavetta	Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento	Lifting bracket with rope stop safety Tragzapfen mit Seilsicherung Staffa di sollevamento con sicurezza fermafune
137	138	138	139	140
B2 5605 11	B2 5605 11a	B2 5605 12	B2 5702 11	B2 5702 11
Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin and keys Tragwange mit Tragbolzen und Passfeder Staffa di sollevamento completa di perno e chiavette	Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento	Pad retainer pin Steckbolzen Perno di arresto	Pad retainer pin Steckbolzen Perno di arresto
141	142	143	144	144

<p>B2 5702 12</p> 	<p>B2 5702 12</p> 	<p>B2 6201 11</p> 	<p>B2 6201 12</p> 	<p>B2 6202 1</p> 
<p>Pad retainer pin Steckbolzen Perno di arresto</p> <p>145</p>	<p>Pad retainer pin Steckbolzen Perno di arresto</p> <p>145</p>	<p>Washer Scheibe Rondella</p> <p>146</p>	<p>Spacer tube Distanzbuchse Tubo distanziale</p> <p>146</p>	<p>Buffer Stossdämpfer Ammortizzatore</p> <p>147</p>
<p>B2 6202 1</p> 	<p>B2 6202 1</p> 	<p>B2 6204 12</p> 		
<p>Washer Scheibe Rondella</p> <p>147</p>	<p>Washer Scheibe Rondella</p> <p>147</p>	<p>Shock absorber Halteelement Ammortizzatore</p> <p>148</p>		

BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO



FORM A



FORM B

Notes

Material: Si37

STOCK

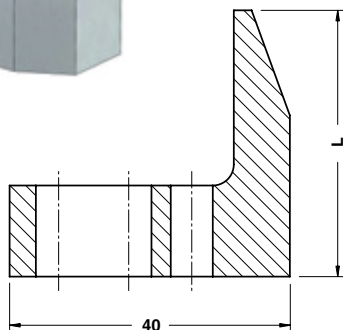


BMW CODE

2 173 600

BMW CODE	d1	d2	FORM
2 173 599	44	34	A
2 173 600	52	42	A
2 173 601	62	52	A
2 173 602	75	65	A
2 173 603	100	78	B
2 173 604	105	78	B

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: 21MnCr5 - **HRC:** 58÷60

STOCK

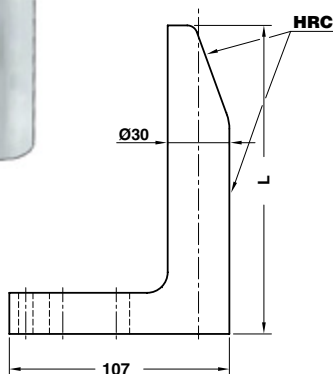
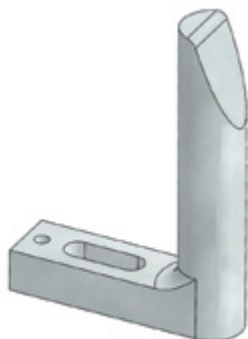


BMW CODE

2 175 120

BMW CODE	L
2 175 119	28
2 175 120	38
2 175 121	48

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60 - HRC: 58+60

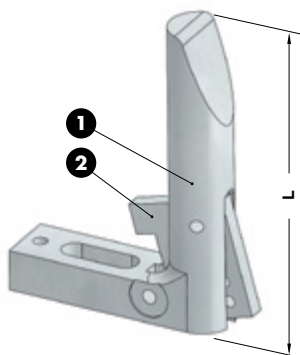


ORDER EXAMPLE	BMW CODE
	2 173 836

BMW CODE	L
2 173 835	65
2 173 836	90
2 173 837	120
2 173 838	150
2 173 839	180
2 175 927	210
2 173 840	250
2 175 127	300
2 175 128	350

Standard BMW

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

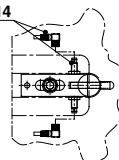


Notes

- 1 Material: CK60
- 2 Material: Si37 - HRC: 50+55

Application example

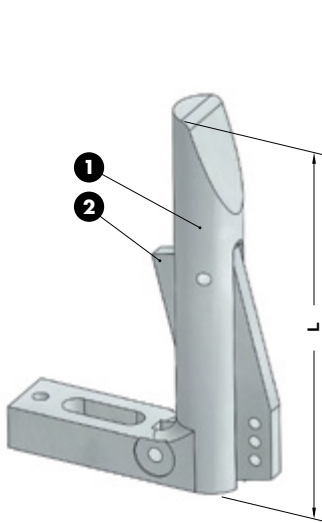
B2 3503 0 277 114



BMW CODE
2 173 842

BMW CODE	L	Sensor
2 173 841	120	included
2 173 842	120	not included
2 173 843	150	included
2 173 844	150	not included

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE



STOCK

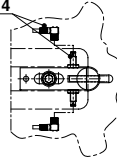


Notes

- 1 Material:** CK60
- 2 Material:** Si37 - HRC: 50÷55

Application example

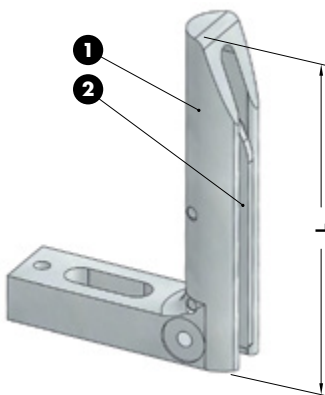
B2 3503 0 277 114



BMW CODE
2 173 846

BMW CODE	L	Sensor
2 173 845	180	included
2 173 846	180	not included
2 173 847	250	included
2 173 848	250	not included

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE



STOCK



Notes

- 1 Material:** CK60
- 2 Material:** Si37 HRC: 58÷60



BMW CODE
2 173 850

BMW CODE	L
2 173 849	120
2 173 850	150
2 173 851	180
2 173 852	250
2 173 853*	250

* With short plate
Mit Kurzschild
Con piastra corta

HOOK FOR CHUTE - HAKEN - GANCIO

Notes

Material: Si37

STOCK



BMW CODE

2 168 287

BMW CODE

2 168 287

Standard BMW

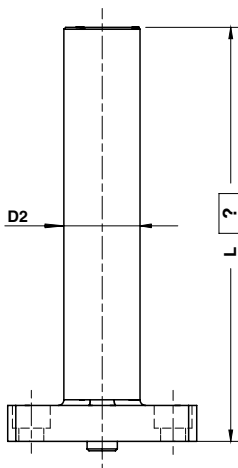
AIR PIN - DRUCKBOLZEN - CANDELA

Notes

Material: CK45 - 800÷1000 N/mm²



FORM A



FORM B



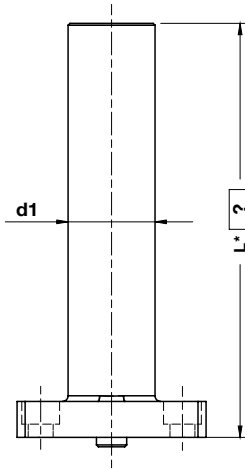
FORM C



BMW CODE	L=250
2 172 200	250

BMW CODE	FORM	D2	L	BMW CODE	FORM	D2	L	BMW CODE	FORM	D2	L
2 168 288	A	40	≤ 260	2 172 206	B	50	≤ 260	2 172 209	C	50	> 260 ≤ 380
2 172 200	B	40	≤ 260	2 172 207	C	50	≤ 260	2 168 293	A	50	> 380
2 172 201	C	40	≤ 260	2 168 292	A	50	> 260 ≤ 380	2 172 210	B	50	> 380
2 168 291	A	50	≤ 260	2 172 208	B	50	> 260 ≤ 380	2 172 211	C	50	> 380

AIR PIN - DRUCKBOLZEN - CANDELA



L max = 360 mm

Notes

Material: CK45 - 800±1000 N/mm²



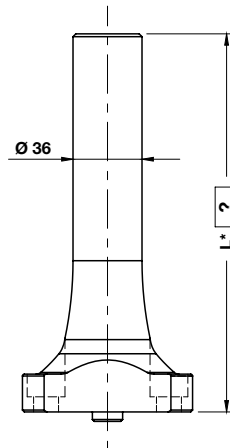
* Recommended lengths
Empfohlene längen
Lunghezze consigliate: 150, 175, 200, 225, 250

ORDER EXAMPLE	BMW CODE	L=370
	2 168 309	370

BMW CODE	d1	L*
2 168 308	36	≤ 350
2 168 309	36	> 350
2 168 310	26	≤ 350
2 168 311	26	> 350

Standard BMW

AIR PIN - DRUCKBOLZEN - CANDELA



L max = 250 mm

Notes

Material: 42CrMo4
800±1000 N/mm²



* Recommended lengths
Empfohlene längen
Lunghezze consigliate: 150, 175, 200, 225, 250

ORDER EXAMPLE	BMW CODE	L=200
	2 171 904	200

BMW CODE	d1	L*
2 171 903	36	≤ 180
2 171 904	36	> 180

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

Material: St37

STOCK



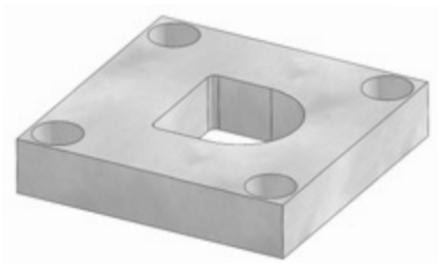
BMW CODE

2 171 716

BMW CODE

2 171 716

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

Material: 90MnCrV8 - **HRC:** 60÷62

STOCK



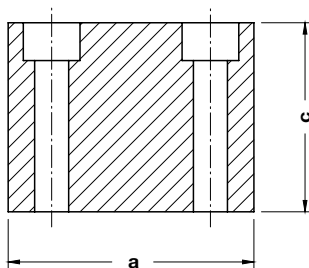
BMW CODE

2 172 935

BMW CODE

2 172 935

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: St37

STOCK

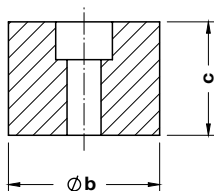


BMW CODE		
2 175 075		

BMW CODE	a	c
2 175 074	65	30
2 175 075	65	50
2 175 076	100	30
2 175 077	100	50

Standard BMW

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: CK45

STOCK



BMW CODE		
2 175 079		

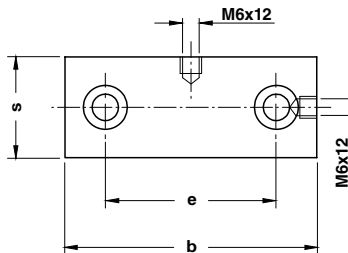
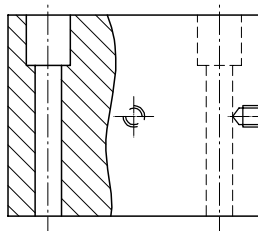
BMW CODE	b	c
2 175 078	40	30
2 175 079	40	50

SPACER - DISTANZSTÜCK - DISTANZIALE

Notes

Material: St37

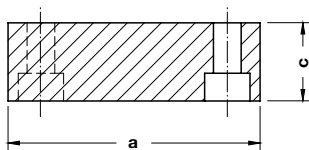
STOCK



BMW CODE
2 172 065

BMW CODE	b	e	s	Max load (kN)	BMW CODE (without thread M6)	b	e	s	Max load (kN)
2 172 064	65	35	30	270	2 173 866	65	35	30	270
2 172 065	100	68	40	700	2 173 867	100	68	40	700
2 168 316	160	98	40	1100	2 173 868	160	98	40	1100
2 172 066	110	78	50	1000	2 173 869	110	78	50	1000
2 168 317	180	114	50	1600	2 173 870	180	114	50	1600
2 172 067	130	90	60	1500	2 173 871	130	90	60	1500
2 175 145	130	90	60	1500	2 175 146	130	90	60	1500
2 168 318	200	130	60	2300	2 173 872	200	130	60	2300
2 174 518	200	125	60	2300	2 174 519	200	125	60	2300
2 168 319	160	115	80	2350	2 173 873	160	115	80	2350
2 175 003	160	115	80	2350	2 175 004	160	115	80	2350
2 168 320	250	160	80	3650	2 173 874	250	160	80	3650
2 174 520	250	155	80	3650	2 174 521	250	155	80	3650

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: 90MnCrV8 - **HRC:** 49÷52

STOCK

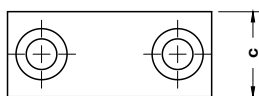
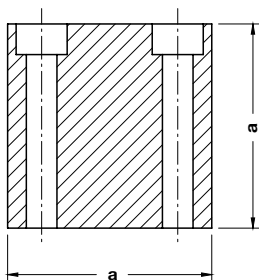


BMW CODE
2 171 494

BMW CODE	a	c
2 171 493	60	48
2 171 494	60	43
2 171 495	70	39
2 171 496	100	36
2 171 497	100	31
2 172 219	60	30
2 172 220	60	25
2 172 221	70	20
2 172 222	100	20
2 172 223	100	15

Standard BMW

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: 90MnCrV8 - **HRC:** 49÷52

Only for replacement
Nur für Reparatur
Solo per riparazione

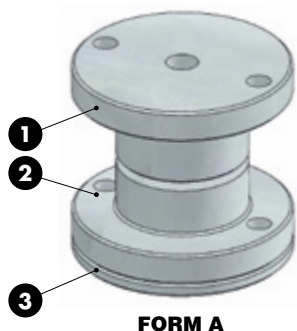
STOCK



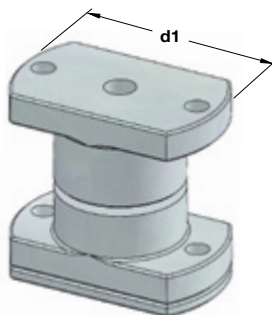
BMW CODE
2 173 596

BMW CODE	Nom. load (daN)	a	c
2 173 596	750÷1500	60	25
2 173 597	3000	70	25
2 173 598	5000÷7500	100	30

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A



FORM B

Notes

1 2

Material: 16MnCr5 - **HRC:** 60÷62

3 Material: CK45



BMW CODE

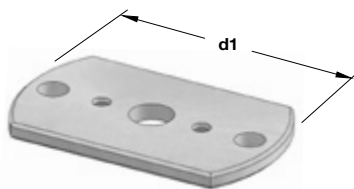
2 171 883

BMW CODE	d1	FORM
2 171 882	100	A
2 171 883	100	B
2 171 884	120	A
2 171 885	120	B

SHIM - ABSTIMMSCHEIBE - SPESSORE



FORM A



FORM B

Notes

Material: CK45

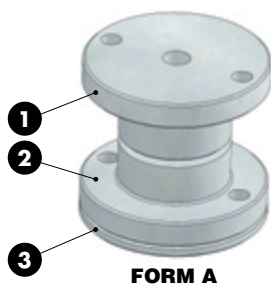


BMW CODE

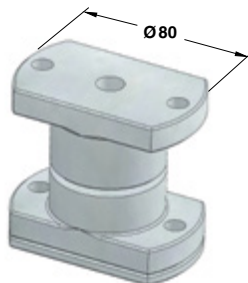
2 171 887

BMW CODE	d1	FORM
2 171 886	100	A
2 171 887	100	B
2 171 888	120	A
2 171 889	120	B

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A



FORM B

Notes

1 2

Material: 16MnCr5 - **HRC:** 60÷62

3 Material: CK45



BMW CODE	2 173 124
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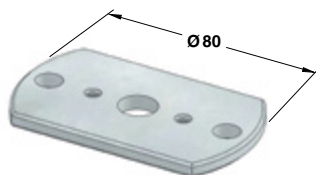
BMW CODE	FORM
2 173 123	A
2 173 124	B

Standard BMW

SHIM - ABSTIMMSCHEIBE - SPESSORE



FORM A



FORM B

Notes

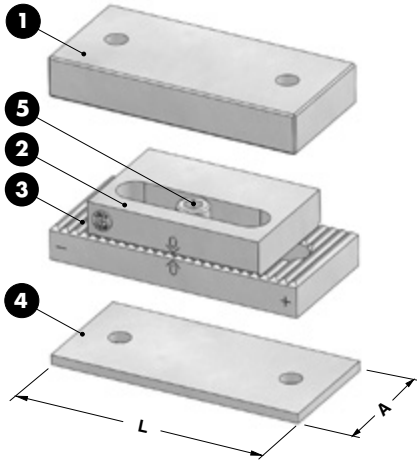
Material: CK45



BMW CODE	2 173 126
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BMW CODE	FORM
2 173 125	A
2 173 126	B

SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE



Notes

1 2 3

Material: 90MnCrV8 - HRC: 58÷60

4 Material: X155CrVMo12

5 DIN 912

STOCK

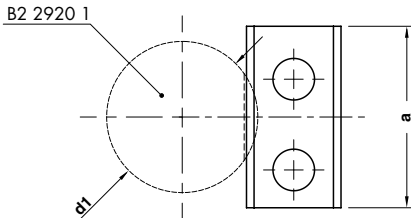


BMW CODE

2 171 715

BMW CODE	A	L	*
2 171 714	60	130	12a
2 171 715	80	160	13a

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

Material: Si37

STOCK

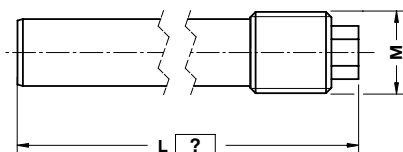


BMW CODE

2 174 517

BMW CODE	a	d1
2 174 516	40	25÷32
2 174 517	48	40÷50

RETAINING BOLT - SICHERUNGSBOLZEN - PERNO DI BLOCCAGGIO



Notes

Material: CK45

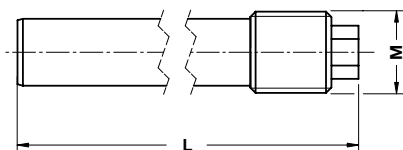
STOCK

	BMW CODE	L=240
	2 174 247	240

BMW CODE	L	M
2 174 247	≤ 300	M 30

Standard BMW

RETAINING BOLT - SICHERUNGSBOLZEN - PERNO DI BLOCCAGGIO



Notes

Material: CK45

STOCK

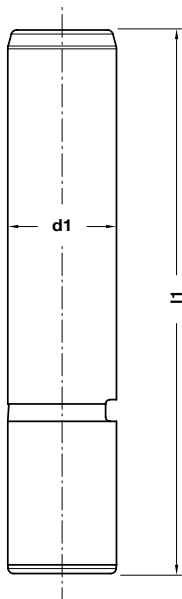
	BMW CODE
	2 174 246

BMW CODE	L	M
2 174 780	180	M 30
2 174 246	230	M 30
2 175 009	200	M 20

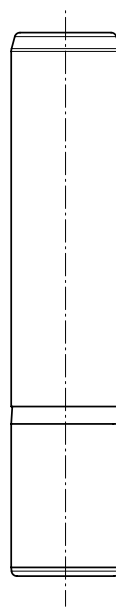
GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



Notes
Material: 16MnCr5 - HRC 60÷62



FORM A



FORM B

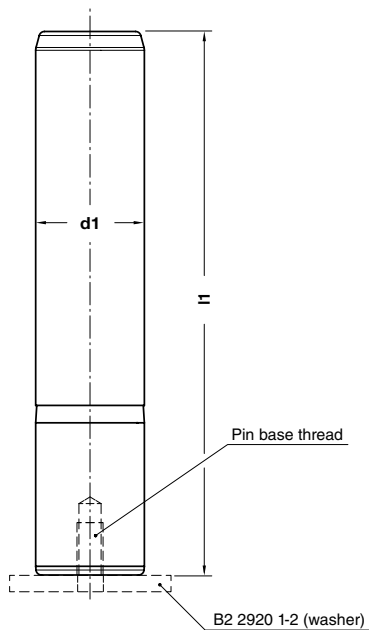
	BMW CODE
	2 168 678

BMW CODE	d1	l1	FORM	BMW CODE	d1	l1	FORM	BMW CODE	d1	l1	FORM
2 168 677	63	200	B	2 174 495	25	180	A	2 174 503	40	250	A
2 168 678	63	250	B	2 174 496	25	200	A	2 174 504	40	280	A
2 168 679	63	315	B	2 174 497	32	160	A	2 174 505	50	160	A
2 168 680	63	355	B	2 174 498	32	200	A	2 174 506	50	200	A
2 172 538	63	400	B	2 174 499	40	160	A	2 174 507	50	250	A
2 174 492	25	125	A	2 174 500	40	180	A	2 174 508	50	280	A
2 174 493	25	140	A	2 174 501	40	200	A	2 174 509	50	315	A
2 174 494	25	160	A	2 174 502	40	224	A	2 174 510	50	355	A

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - HRC 60÷62



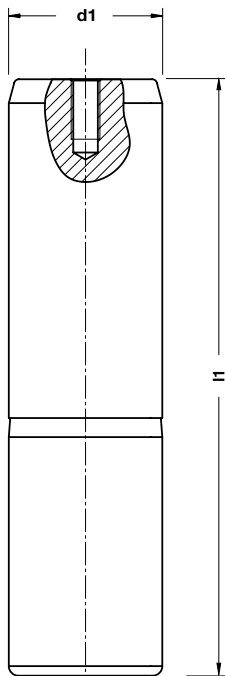
Standard BMW



BMW CODE
2 173 907

BMW CODE	d1	l1	Washer Code	BMW CODE	d1	l1	Washer Code
2 173 906	40	160	2 173 912	2 173 916	50	280	2 173 919
2 173 907	40	180	2 173 912	2 173 917	50	315	2 173 919
2 173 908	40	200	2 173 912	2 173 918	50	355	2 173 919
2 173 909	40	224	2 173 912	2 173 920	63	200	2 173 925
2 173 910	40	250	2 173 912	2 173 921	63	250	2 173 925
2 173 911	40	280	2 173 912	2 173 922	63	315	2 173 925
2 173 913	50	160	2 173 919	2 173 923	63	355	2 173 925
2 173 914	50	200	2 173 919	2 173 924	63	400	2 173 925
2 173 915	50	250	2 173 919				

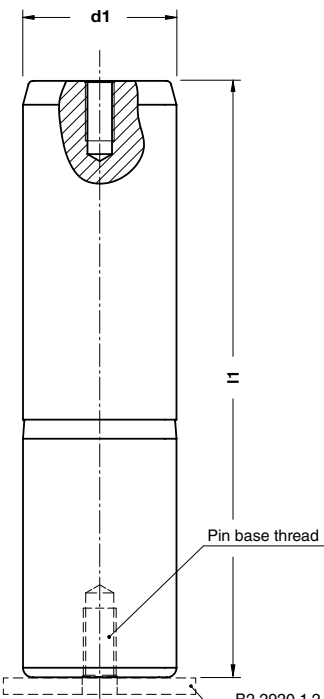
GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



FORM A

Notes

Material: 16MnCr5 - HRC 60÷62



FORM B

Pin base thread

B2 2920 1-2 (washer)

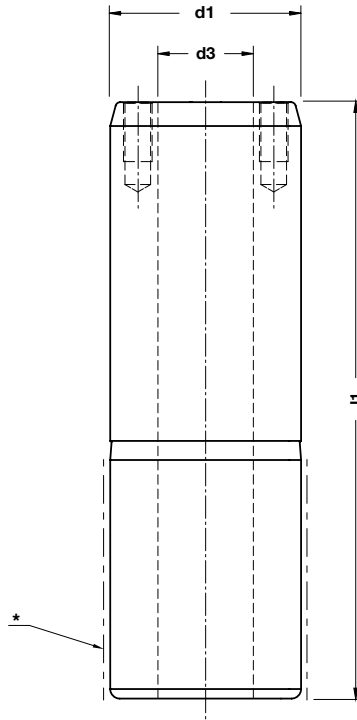
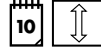
	BMW CODE
	2 168 684

BMW CODE	d1	l1	Washer code	FORM	BMW CODE	d1	l1	Washer code	FORM
2 168 682	80	250	-	A	2 173 926	80	250	2 173 930	B
2 168 684	80	280	-	A	2 173 927	80	280	2 173 930	B
2 168 686	80	315	-	A	2 173 928	80	315	2 173 930	B
2 168 688	80	355	-	A	2 173 929	80	355	2 173 930	B

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - HRC 60÷62



* Not hardened
Nicht gehärtet
Non indurito



BMW CODE
2 171 216

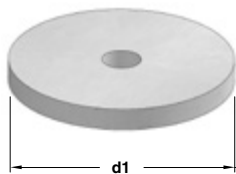
BMW CODE	d1	d3	l1	BMW CODE	d1	d3	l1
2 171 214	100	50	355	2 173 239	125	65	400
2 171 216	100	50	400	2 174 777	100	50	280
2 173 218	125	65	355	2 174 778	100	50	315
2 173 220	125	65	450				

WASHER - FEDERSCHEIBE - RONDELLA PER COLONNE

Notes

Material: CK45

STOCK



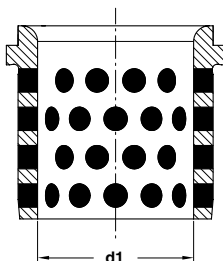
ORDER EXAMPLE 	BMW CODE		
	2 173 919		
	BMW CODE	d1	sheet
	2 173 912	60	1
	2 173 919	70	1
	2 173 925	83	1
	2 173 930	100	2

GUIDE BUSH DIN 9834 - FÜHRUNGSBUCHSE DIN 9834 - BOCCOLA DIN 9834

Notes

Material: Bronze + Graphite
HB > 190

STOCK



ORDER EXAMPLE 	BMW CODE	
	2 168 700	
	BMW CODE	d1
	2 168 699	25
	2 168 700	32
	2 168 701	40
	2 168 702	50
	2 168 703	63
	2 168 704	80
	2 168 705	100
	2 168 706	125
	2 168 707	160

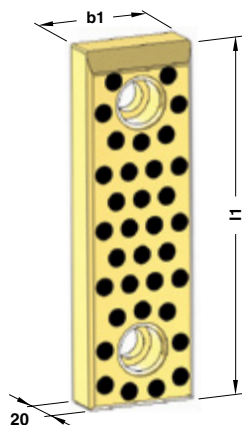
**WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**

Notes

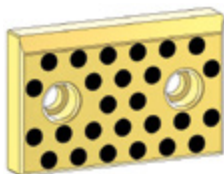
Material: Bronze + Graphite

HB > 190

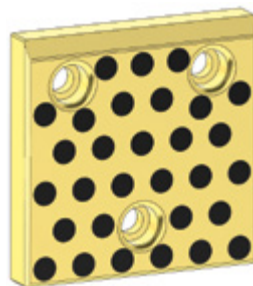
STOCK



FORM A



FORM B



FORM C



BMW CODE

2 168 338

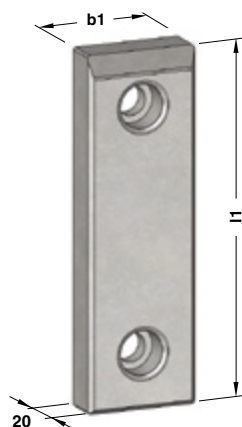
BMW CODE	b1	l1	FORM	BMW CODE	b1	l1	FORM
2 168 337	50	80	A	2 168 352	100	160	B
2 168 338	50	100	A	2 168 353	100	200	B
2 168 339	50	125	A	2 168 354	125	50	B
2 168 340	50	160	A	2 168 355	125	80	B
2 168 341	50	200	A	2 168 356	125	100	C
2 168 342	80	50	B	2 168 357	125	125	C
2 168 343	80	80	A	2 168 358	125	160	C
2 168 344	80	100	A	2 168 359	125	200	C
2 168 345	80	125	A	2 168 360	160	50	B
2 168 346	80	160	A	2 168 361	160	80	B
2 168 347	80	200	A	2 168 362	160	100	C
2 168 348	100	50	B	2 168 363	160	125	C
2 168 349	100	80	B	2 168 364	160	160	C
2 168 350	100	100	A	2 168 365	160	200	C
2 168 351	100	125	A				

Standard BMW

**WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357**

Notes

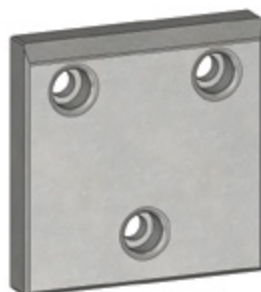
Material: 16MnCr5 - HRC 58±60



FORM A



FORM B



FORM C



BMW CODE
2 168 367

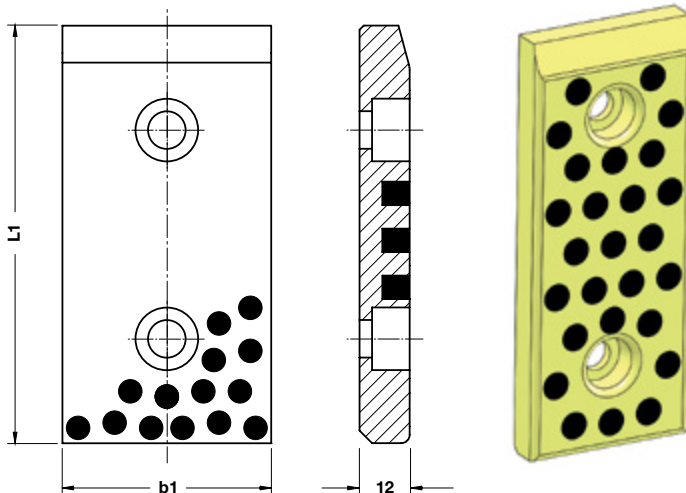
BMW CODE	b1	l1	FORM	BMW CODE	b1	l1	FORM
2 168 366	50	80	A	2 168 381	100	160	B
2 168 367	50	100	A	2 168 382	100	200	B
2 168 368	50	125	A	2 168 383	125	50	B
2 168 369	50	160	A	2 168 384	125	80	B
2 168 370	50	200	A	2 168 385	125	100	C
2 168 371	80	50	B	2 168 386	125	125	C
2 168 372	80	80	A	2 168 387	125	160	C
2 168 373	80	100	A	2 168 388	125	200	C
2 168 374	80	125	A	2 168 389	160	50	B
2 168 375	80	160	A	2 168 390	160	80	B
2 168 376	80	200	A	2 168 391	160	100	C
2 168 377	100	50	B	2 168 392	160	125	C
2 168 378	100	80	B	2 168 393	160	160	C
2 168 379	100	100	A	2 168 394	160	200	C
2 168 380	100	125	A				

**WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**

Notes

Material: Bronze + Graphite
HB > 190

STOCK



BMW CODE

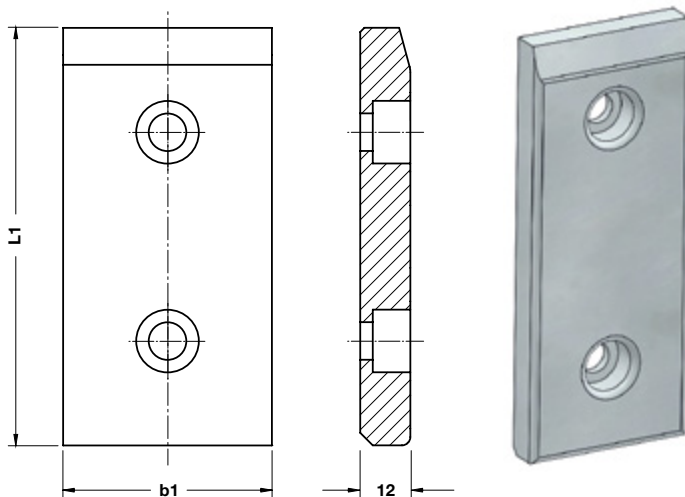
2 169 172

BMW CODE	b1	L1	BMW CODE	b1	L1
2 169 171	30	80	2 169 184	50	160
2 169 172	30	100	2 169 185	50	200
2 169 173	30	125	2 169 186	60	80
2 169 174	30	160	2 169 187	60	100
2 169 175	30	200	2 169 188	60	125
2 169 176	40	80	2 169 189	60	160
2 169 177	40	100	2 169 190	60	200
2 169 178	40	125	2 169 191	80	80
2 169 179	40	160	2 169 192	80	100
2 169 180	40	200	2 169 193	80	125
2 169 181	50	80	2 169 194	80	160
2 169 182	50	100	2 169 195	80	200
2 169 183	50	125			

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357

Notes

Material: 16MnCr5 - HRC 58±60

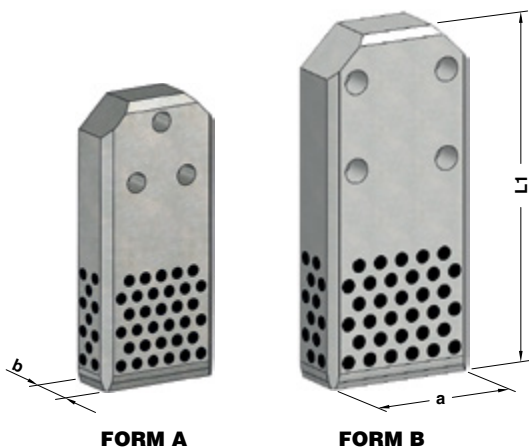


BMW CODE

2 170 889

BMW CODE	b1	L1	BMW CODE	b1	L1
2 170 888	30	80	2 170 901	50	160
2 170 889	30	100	2 170 902	50	200
2 170 890	30	125	2 170 903	60	80
2 170 891	30	160	2 170 904	60	100
2 170 892	30	200	2 170 905	60	125
2 170 893	40	80	2 170 906	60	160
2 170 894	40	100	2 170 907	60	200
2 170 895	40	125	2 170 908	80	80
2 170 896	40	160	2 170 909	80	100
2 170 897	40	200	2 170 910	80	125
2 170 898	50	80	2 170 911	80	160
2 170 899	50	100	2 170 912	80	200
2 170 900	50	125			

GIB VDI 3387 - FÜHRUNGLASCHE VDI 3387 - GUIDA VDI 3387



Notes
Material: CK45 + Graphite
HRC: 58÷60

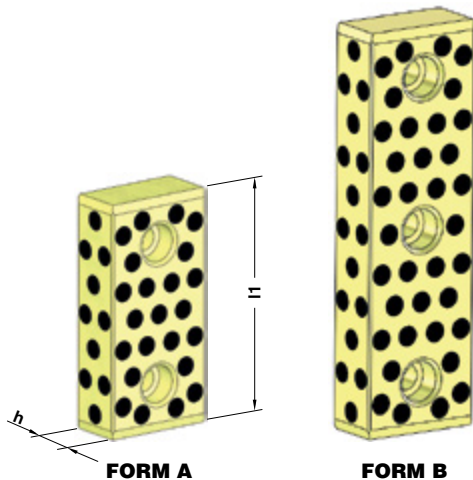
STOCK

	BMW CODE
	2 168 880

BMW CODE	a	b	L1	FORM
2 168 879	112	45	250	A
2 168 880	140	45	315	B
2 168 881	190	56	400	B
2 174 248	240	56	500	B

Standard BMW

GUIDE BAR VDI 3357 - FÜHRUNGSLEISTE VDI 3357 - LARDONE VDI 3357



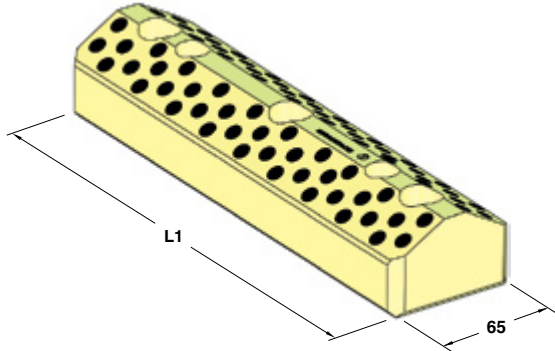
Notes
Material: Bronze + Graphite - HB >190

STOCK

	BMW CODE
	2 168 884

BMW CODE	h	l1	FORM
2 168 883	30	125	A
2 168 884	30	160	A
2 168 885	30	200	B
2 168 886	40	125	A
2 168 887	40	160	A
2 168 888	40	200	B

**"V" DRIVER SELF-LUBRICATING VDI 3357
 PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
 GUIDA A "V" AUTOLUBRIFICANTE VDI 3357**



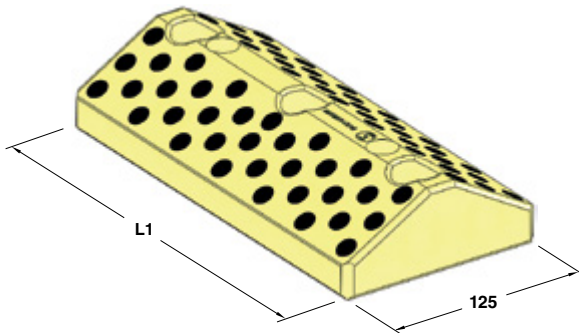
Notes
Material: Bronze + Graphite - **HB** >190



	BMW CODE
	2 168 900

BMW CODE	L1
2 168 899	150
2 168 900	200
2 168 901	250
2 168 902	300

**"V" DRIVER SELF-LUBRICATING VDI 3357
 PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
 GUIDA A "V" AUTOLUBRIFICANTE VDI 3357**



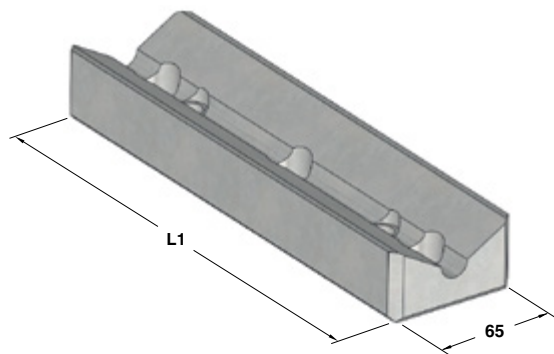
Notes
Material: Bronze + Graphite - **HB** >190



	BMW CODE
	2 168 904

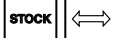
BMW CODE	L1
2 168 903	150
2 168 904	200
2 168 905	250
2 168 906	300

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357



Notes

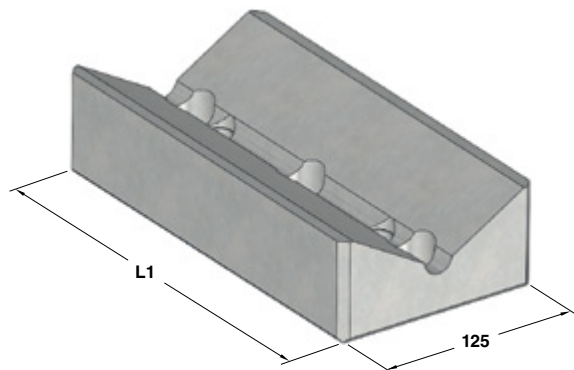
Material: CK45 - HRC: 58÷60



	BMW CODE
	2 168 919
BMW CODE	L1
2 168 918	150
2 168 919	200
2 168 920	250
2 168 921	300

Standard BMW

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357



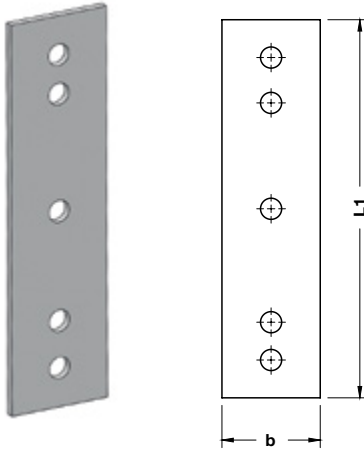
Notes

Material: CK45 - HRC: 58÷60



	BMW CODE
	2 168 923
BMW CODE	L1
2 168 922	150
2 168 923	200
2 168 924	250
2 168 925	300

**DISTANCE PLATE FOR "V" DRIVER
HÖHENAUSGLEICH FÜR PRISMENFUHRUNG
DISTANZIALE PER GUIDA A "V"**



Notes

Material: St52

STOCK

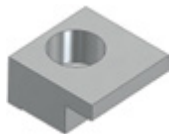


BMW CODE

2 172 953

BMW CODE	b	L1
2 172 952	65	150
2 172 953	65	200
2 172 954	65	250
2 172 955	65	300
2 172 956	125	150
2 172 957	125	200
2 172 958	125	250
2 172 959	125	300

TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA

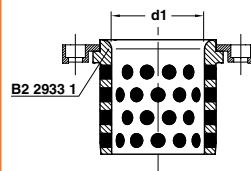


STOCK

Notes

Material: CK45

Application example

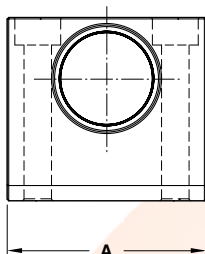
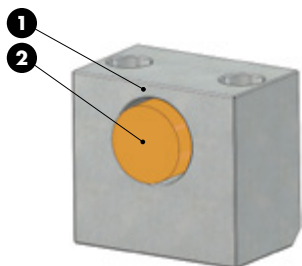


BMW CODE

2 168 842

BMW CODE	d1
2 168 834	25-50
2 168 842	63-160
2 172 560	16
2 172 561	20

SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA



Notes

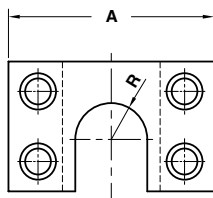
- 1 Material: CK45
- 2 Material: Urethane



* Without elastomer
Ohne Elastomer
Senza elastomero

ORDER EXAMPLE	BMW CODE	
	2 171 476	
BMW CODE	A	Urethane
2 172 563	65	red 95 SH
2 171 476	65	yellow 90 SH
2 173 856	65	*
2 172 564	75	red 95 SH
2 171 477	75	yellow 90 SH
2 173 857	75	*

COUPLING PLATE – BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE



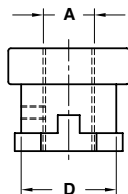
Notes

Material: CK45

STOCK

	BMW CODE	
	2 175 052	
BMW CODE	A	R
2 175 051	100	20
2 175 052	120	25

COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIAMENTO STAFFA



Notes

Material: CK45

STOCK

	BMW CODE	
	2 175 054	
BMW CODE	A	D
2 175 053	M16x1,5	37
2 175 054	M20x1,5	37
2 175 055	M27x2	47
2 175 056	M36x2	47

SHIM - AUSGLEICHSCEIB - SPESSORE



Notes

Material: St37

STOCK



BMW CODE

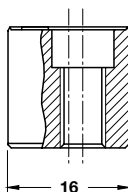
2 168 546

BMW CODE

2 168 546

Standard BMW

**VISUAL LOCATOR SETTING PUNCH
STEMPEL F. ENTGASUNGSNOPPEN
PUNZONE DI VISUALIZZAZIONE**



Notes

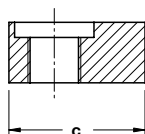
Material: X155CrVMo12 - **HRC:** 55±58

STOCK

	BMW CODE	Option
	2 171 527	U 25

BMW CODE	Option	BMW CODE	Option	BMW CODE	Option
2 169 003	2 digit number	2 171 529	B + 2 digit number	2 173 812	P + number 3
2 171 527	U + 2 digit number	2 171 530	2 digit number	2 173 813	P + number 4
2 171 528	A + 2 digit number	2 171 531	L	2 173 714	LP + number 1
2 175 080	CN	2 171 532	R	2 173 715	LP + number 2
2 171 530	C	2 174 593	-	2 173 716	RP + number 1
2 169 002	-	2 173 712	P + number 1	2 173 717	RP + number 2
2 171 533	2 digit number	2 173 713	P + number 2		

KEY - PASSFEDER - CHIAVETTA



Notes

Material: CK45

STOCK

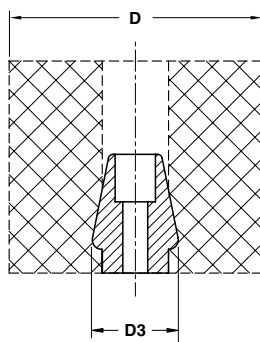


BMW CODE

2 175 929

BMW CODE	c
2 175 928	16
2 175 929	18
2 175 930	20
2 175 931	22
2 175 932	26
2 175 933	32
2 175 934	35
2 175 935	40

ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE



Notes

Material: CK45

STOCK

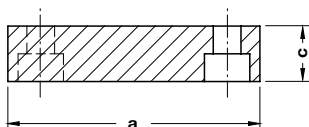


BMW CODE

2 169 345

BMW CODE	D	D3
2 169 344	63	28
2 169 345	80÷100	32
2 169 346	125	38

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: 16MnCr5 - **HRC:** 60÷64

STOCK

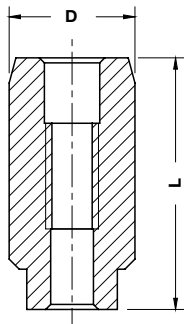


BMW CODE
2 171 499

BMW CODE	a	c
2 171 498	40	12
2 171 499	60	15
2 171 500	70	15
2 171 501	100	20
2 175 147	110	20

Standard BMW

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



Notes

Material: 16MnCr5 - **HRC:** 58÷60

Only for replacement
Nur für Reparatur
Solo per riparazione

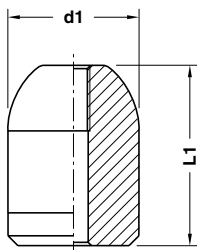
STOCK



BMW CODE
2 169 053

BMW CODE	D	L
0 970 435	25	50
2 169 053	25	65
0 970 413	32	50
2 169 054	32	65
0 970 412	40	50
2 169 055	40	65
0 970 411	50	50
2 169 056	50	65

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



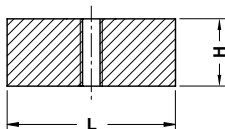
Notes

Material: 16MnCr5 - **HRC:** 58÷60

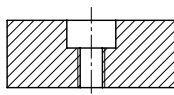
STOCK

ORDER EXAMPLE	BMW CODE	
	2 172 411	
BMW CODE	d1	L1
2 172 410	22	45
2 172 411	32	50
2 172 412	40	55
2 172 413	50	55
2 173 658	56	80

KEY - PASSFEDER - CHIAVETTA



FORM A



FORM B

Notes

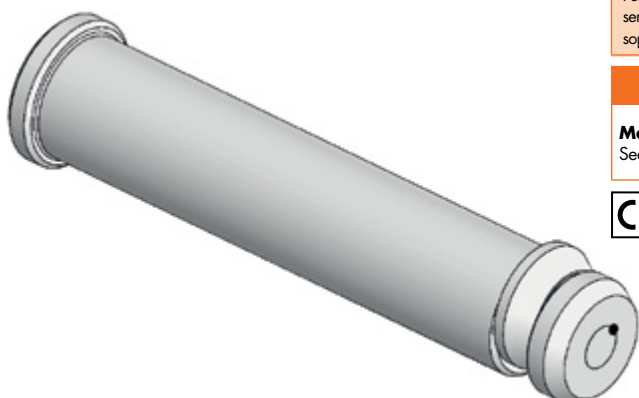
Material: CK45

STOCK

ORDER EXAMPLE	BMW CODE	FORM	
	2 174 226	A	
BMW CODE	H	L	FORM
2 172 053	14	80	A
2 172 224	30	80	A
2 172 808	14	50	A
2 172 809	30	120	A
2 174 226	20	50	A or B
2 174 227	20	80	A or B
2 174 835	10	50	B
2 174 836	10	80	B

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO

Standard BMW



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

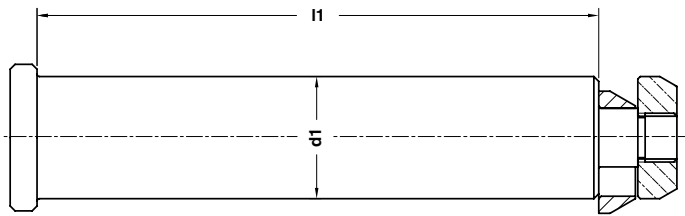
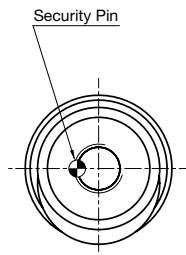
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material:

See table - siehe Tabelle - vedi tabella



ORDER EXAMPLE	BMW CODE
	2 168 396

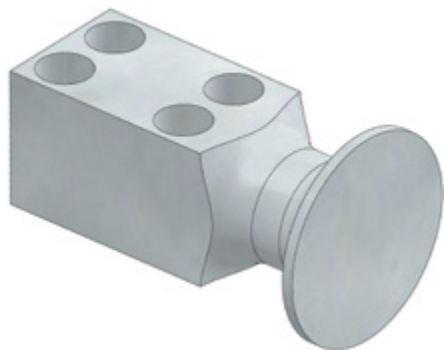
BMW CODE	Max load (kg)	Max die weight (kg)	l1	d1	Material
2 168 395	3200	6400	175	32	CK45
2 168 396	5000	10000	225	40	CK45
2 168 397	8000	16000	273	50	CK45
2 168 398	12500	25000	347	63	CK45
2 168 399	31500	63000	422	76	42CrMo4



**LIFTING BRACKET WITH ROPE STOP SAFETY
TRAGZAPFEN MIT SEILSICHERUNG
STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNO**



FORM A



FORM B



Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

Material: CK45 - 700÷800 N/mm²

Screws not included

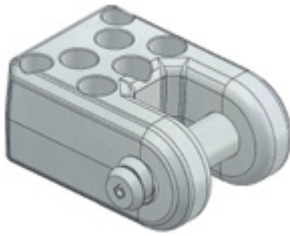
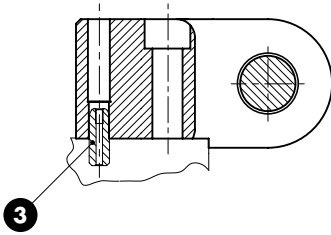


BMW CODE

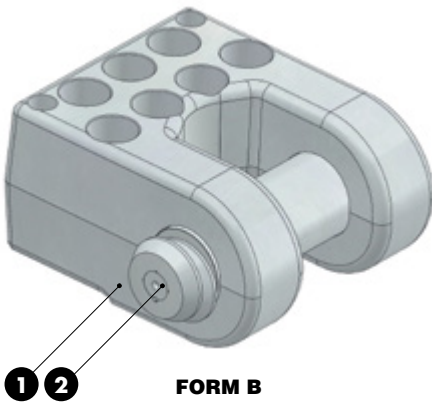
3 275 834

BMW CODE	Max load (kg)	Max die weight (kg)	FORM	BMW CODE	Max load (kg)	Max die weight (kg)	FORM
2 169 231	320	640	A	3 275 839	5000	10000	A
3 275 834	630	1260	A	3 275 840	8000	16000	B
3 275 835	1250	2500	A	2 169 238	12500	25000	B
3 275 836	2000	4000	A	2 169 239	20000	40000	B
3 275 838	3200	6400	A				

LIFTING BRACKET WITH PIN AND LOCATING PINS
TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI



FORM A



FORM B



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
 For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1** Material: St52
- 2** Material: CK45
- 3** B2 4068 2
 Material: 16MnCr5 - HRC: 58÷60

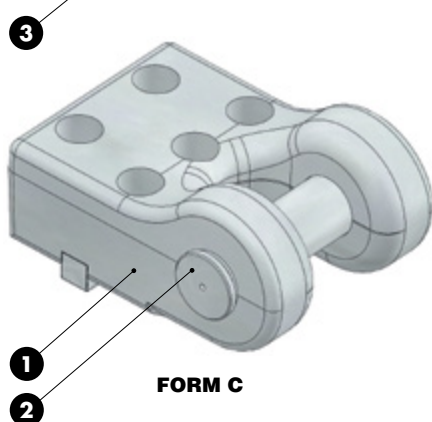
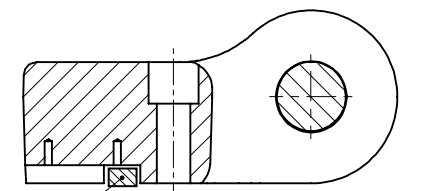
Screws not included



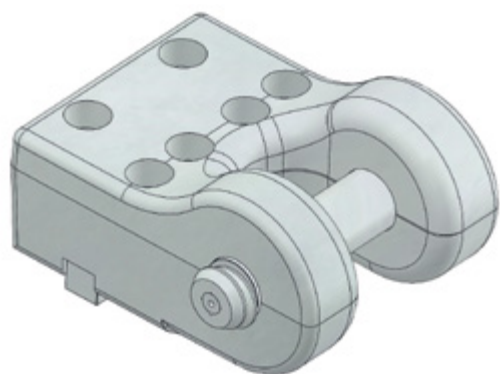
BMW CODE
2 174 861

BMW CODE	Max load (kg)	Max die weight (kg)	FORM	BMW CODE	Max load (kg)	Max die weight (kg)	FORM
2 174 690	3200	6400	A	2 175 233	12500	25000	A
2 174 861	5000	10000	A	2 174 694	18000	36000	B
2 174 692	8000	16000	A				

LIFTING BRACKET WITH PIN AND KEYS
TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER
STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CHIAVETTE



FORM C



FORM D



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
 For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

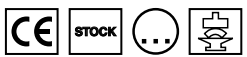
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1 **Material:** St52
- 2 **Material:** CK45 - **FORM C**
- 2 **Material:** 42CrMo4 - **FORM D**
- 3 C14.20 - **Material:** CK45

Screws not included



	BMW CODE
	2 174 864

BMW CODE	Max load (kg)	Max die weight (kg)	FORM
2 174 863	25000	50000	C
2 174 864	31500	63000	D

**REPLACEMENT LIFTING PIN FOR LIFTING BRACKET BMW
ERSATZTRAGBOLZEN FÜR TRAGWANGE BMW
PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO BMW**

Standard BMW



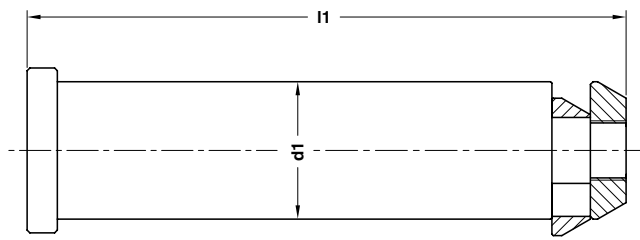
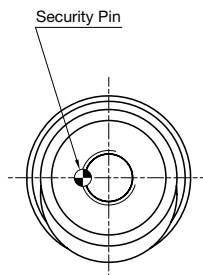
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

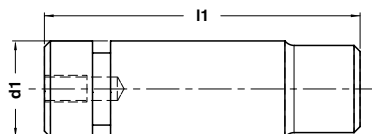


BMW CODE
2 174 867

BMW CODE	Max load (kg)	Max die weight (kg)	l1	d1	Material
2 168 400	3200	6400	158	30	CK45
2 174 867	5000	10000	187	40	CK45
2 168 402	8000	16000	220	50	CK45
2 174 868	12500	25000	246	60	CK45
2 168 404	18000	36000	305	80	CK45
2 174 865	25000	50000	360	80	CK45
2 174 866	31500	63000	405	80	42CrMo3



PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

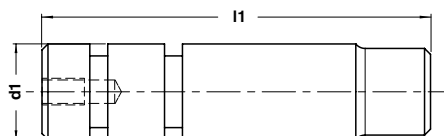
STOCK



BMW CODE
 2 169 032

BMW CODE	d1	l1	BMW CODE	d1	l1
2 169 031	25	87	2 169 036	40	159
2 169 032	25	100	2 169 037	50	167
2 169 033	32	105	2 169 038	50	192
2 169 034	32	122	2 169 039	63	202
2 169 035	40	139	2 169 040	63	237

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



BMW CODE
 2 169 043

BMW CODE	d1	l1	BMW CODE	d1	l1
2 169 042	25	107	2 169 047	40	191
2 169 043	25	120	2 169 048	50	207
2 169 044	32	130	2 169 049	50	232
2 169 045	32	147	2 169 050	63	252
2 169 046	40	171	2 169 051	63	287

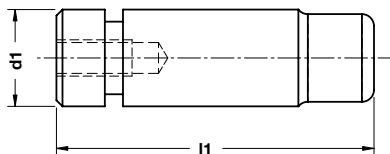
PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes

Material: 42CrMo4

STOCK



BMW CODE
2 173 660

BMW CODE	d1	l1	BMW CODE	d1	l1
2 173 659	32	111	2 173 663	32	128
2 173 660	40	145	2 173 664	40	165
2 173 661	50	171	2 173 665	50	196
2 173 662	63	206	2 173 666	63	241

Standard BMW

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO

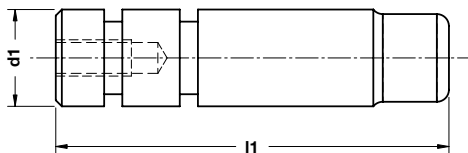


Notes

Material: 42CrMo4

Only for replacement
Nur für Reparatur
Solo per riparazione

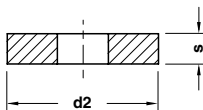
STOCK



BMW CODE
2 173 668

BMW CODE	d1	l1	BMW CODE	d1	l1
2 173 667	32	136	2 173 671	32	153
2 173 668	40	177	2 173 672	40	197
2 173 669	50	211	2 173 673	50	236
2 173 670	63	256	2 173 674	63	291

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45 - **HRC:** 45÷50

STOCK

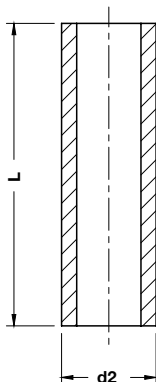


BMW CODE
0 281 622

BMW CODE	d2	s	BMW CODE	d2	s	BMW CODE	d2	s
0 281 173	23	4	0 281 620	35	6	2 171 891	68	10
0 281 618	56	10	0 281 621	30	5			
0 281 619	42	8	0 281 622	26	4			

B2 6201 12

SPACER TUBE - DISTANZBUCHSE - TUBO DISTANZIALE



Notes

Material: St37 - **HRC:** 60÷64

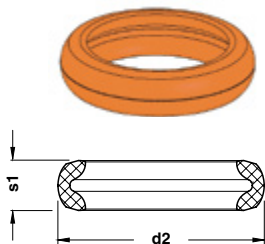
STOCK



BMW CODE
2 168 800

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2 168 799	13	50	2 168 816	25	80	2 168 831	36	200	2 173 793	20	<200
2 168 800	13	63	2 168 817	25	100	2 168 832	42	150	2 173 794	25	<200
2 168 802	16	50	2 168 818	25	125	2 168 833	42	200	2 173 795	30	<200
2 168 803	16	63	2 168 819	25	200	2 171 892	13	>100	2 173 796	36	<200
2 168 804	16	80	2 168 820	30	50	2 171 893	16	>200	2 173 797	42	<200
2 168 807	16	200	2 168 821	30	63	2 171 894	20	>200	3 021 663	16	100
2 168 808	20	50	2 168 822	30	80	2 171 895	25	150	3 021 664	36	100
2 168 809	20	63	2 168 823	30	100	2 171 896	25	>200	3 021 666	20	80
2 168 811	20	100	2 168 824	30	125	2 171 897	30	>200	3 380 926	13	100
2 168 812	20	125	2 168 825	30	150	2 171 898	36	>200			
2 168 813	20	200	2 168 826	30	200	2 171 899	42	>200			
2 168 814	25	50	2 168 829	36	125	2 172 153	36	80			

BUFFER - STOSSDÄMPFER - AMMORTIZZATORE



STOCK

Notes

Material: CO-Polyester Elastomer



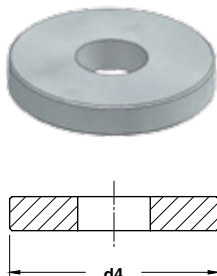
BMW CODE

2 173 881

BMW CODE	d2	s1	Shore	Max load (kN)
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2 173 881	32,1	9,8	72D	9000
2 173 882	45,8	15,3	72D	20000
2 173 883	54,6	19,0	55D	30000
2 173 884	61,8	19,5	55D	46000
2 173 885	78,5	27,0	55D	75000

Standard BMW

WASHER - SCHEIBE - RONDELLA



STOCK

Notes

Material: CK45

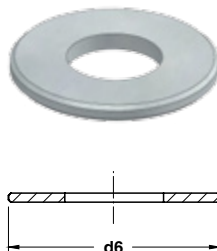


BMW CODE

2 175 382

BMW CODE	d4
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2 175 383	50
2 175 384	65
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WASHER - SCHEIBE - RONDELLA



STOCK

Notes

Material: 90MnCrV8 - HRC: 56

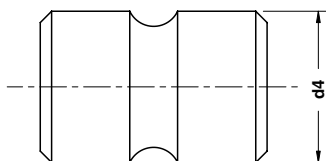


BMW CODE

2 175 388

BMW CODE	d6
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2 175 389	50
2 175 390	65
2 175 391	70
2 175 392	90

SHOCK ABSORBER - HALTELEMENT - AMMORTIZZATORE



Notes
Material: ACE TecnPak

STOCK



BMW CODE
2 173 698

BMW CODE	d4
2 173 697	40
2 173 698	50
2 173 699	63
2 173 700	80







OMCR[®]

STANDARD DIE COMPONENTS






















STANDARD

FCA

FIAT CHRYSLER AUTOMOBILES






STQ 10000	STQ 10001 - GRC	STQ 10001 - GRCH	STQ 10002 - COL	STQ 10002 - COLH
				
	Guide post group Werkzeugführungseinheit Gruppo guida stampo	Guide post group Werkzeugführungseinheit Gruppo guida stampo	Guide post DIN 9833 Führungssäule DIN 9833 Colonna guida DIN 9833	Guide post DIN 9833 Führungssäule DIN 9833 Colonna guida DIN 9833
	159	160	161	162
STQ 10003 - BOC	STQ 10004 - RIT	STQ 10005 - COL	STQ 10005 - COL	STQ 10006 - BOC
				
Bush self-lubricating DIN 9834 Führungsbuchse DIN 9834 Boccola autolubrificante DIN 9834	Toe clamp Haltestück Ritegno per boccola	Guide post Führungssäule Colonna per traliccio	Guide post Führungssäule Colonna per traliccio	Sleeve Führungseinheit Canotto guida
164	164	165	165	165
STQ 10010 - GRC	STQ 10010 - CO_PR	STQ 10010 - BO_PR	STQ 10010 - RIT	STQ 10012 - BR
				
Guide ejector group Auswerferführung Gruppo guida estrattore	Guide post Führungssäule Colonna guida	Bush self lubricating Führungsbuchse Boccola autolubrificante	Toe clamp Haltestück Ritegno	Wear plate self-lubricating Gleitplatte bronze mit festschmierstoff Piastra guida autolubrificante
166	166	167	167	168
STQ 10012 - ACC	STQ 10012 - TIPO	STQ 10012 - BR	STQ 10012 - ACC	STQ 10013 - PBR
				
Wear plate steel Gleitplatte stahl Piastra guida in acciaio	Distance plate for wear plate Höhenausgleich für gleitplatte Distanziale per piastra	Guide bar self-lubricating Führungsleite bronze mit festschmierstoff Lardone autolubrificante	Guide bar steel Führungsleite stahl Lardone in acciaio	Guide bar self-lubricating VDI 3357 Führungsleite bronze mit festschmierstoff VDI 3357 Lardone autolubrificante VDI 3357
169	170	171	171	172

<p>STQ 10013 - PAC</p>  <p>Wear plate steel VDI 3357 Gleitplatte stahl VDI 3357 Piastra guida in acciaio VDI 3357</p> <p>173</p>	<p>STQ 10013 - PSP</p>  <p>Distance plate for wear plate Höhenausgleich für gleitplatte</p> <p>174</p>	<p>STQ 10014 - P2S</p>  <p>Wear plate self-lubricating Gleitplatte bronze mit festschmierstoff Piastra guida autolubrificante</p> <p>175</p>	<p>STQ 10014 - PA2S</p>  <p>Wear plate steel Gleitplatte stahl Piastra guida in acciaio</p> <p>175</p>	<p>STQ 10014 - PSP2S</p>  <p>Distance plate for wear plate Höhenausgleich für gleitplatte Distanziale per piastra</p> <p>176</p>	
<p>STQ 10015 - G_V</p>  <p>"V" driver steel Prismenführung Guida a "V" in acciaio</p> <p>177</p>	<p>STQ 10015 - G_V</p>  <p>"V" driver self-lubricating Prismenführung bronze mit festschmierstoff Guida a "V" autolubrificante</p> <p>177</p>	<p>STQ 10015 - G_V</p>  <p>"V" driver steel Prismenführung Guida a "V" in acciaio</p> <p>178</p>	<p>STQ 10015 - G_V</p>  <p>"V" driver self-lubricating Prismenführung bronze mit festschmierstoff Guida a "V" autolubrificante</p> <p>178</p>	<p>STQ 10015 - SP_V</p>  <p>Distance plate for "V" driver Höhenausgleich für Prismenführung Distanziale per guida a "V"</p> <p>179</p>	
<p>STQ 10015 - SP_V</p>  <p>Distance plate for "V" driver Höhenausgleich für Prismenführung Distanziale per guida a "V"</p> <p>179</p>	<p>STQ 10016 - BR</p>  <p>Angular guide Winkelleiste Guida angolare</p> <p>180</p>	<p>STQ 10017 - G_L</p>  <p>Angular guide Winkelleiste Guida angolare</p> <p>181</p>	<p>STQ 2000</p>		<p>STQ 20020 - TC</p>  <p>Compensation block Abstandsblock Tassello di compensazione</p> <p>182</p>
<p>STQ 20020 - TCRS</p>  <p>Spacer plate toothed Distanzplatte gezahnt Tassello di compensazione</p> <p>182</p>	<p>STQ 20021 - PPSP</p>  <p>Pre-centering punch Stempelvorzentrierung Precentraggio punzone</p> <p>182</p>	<p>STQ 20022 - CA</p>  <p>Air pin Unterluftbolzen Candela</p> <p>183</p>	<p>STQ 20023 - TU</p>  <p>Air relief tubing Tube Tubetto sfogo aria</p> <p>183</p>	<p>STQ 20024 - RIF_M12</p>  <p>Gage for sensor Einweiser für teillagekontrolle Riferimento per sensore</p> <p>184</p>	

STQ 20025 - BOCB	STQ 20026 - GU03	STQ 20026 - A919	STQ 20026 - RIT	STQ 20026 - PE01
				
Bush Buchs Boccola 184	Rear guide Hintere Führung Guida posteriore 185	Angular guide Winkelleiste Guida angolare 185	Toe clamp Haltestück Ritegno 185	Pin Steckbolzen Perno 186
STQ 20026 - E40.04.	STQ 20026 - NOT	STQ 20026 - FLPPA	STQ 20027 - RIF_M18	<h2>STQ 40000</h2>
				
Wear plate Gleitplatte Piastra guida 186	Pawl Klinke Nottolino 186	Hookup Hinweis Rimando 187	Front gage Einlaufanschlag Portasensore 187	
STQ 40001 - GR_ST	STQ 40001 - ST	STQ 40002 - SOL	STQ 40003 - CN	STQ 40004 - PU_EL
				
Lifting bracket Tragwange mit fallringsicherung Staffa di sollevamento 188	Replacement lifting pin for lifting bracket Ersatztragbolzen für tragwange Perno di ricambio per staffa di sollevamento 189	Lifting pin Tragbolzen mit fallringsicherung Perno di sollevamento 190	Locating cone Kegeldistanz Cono di centraggio 191	Elastomer cap Elastomerdruckstück Puntalino elastico 191
OSTQ 40005 - ST	STQ 40005 - PIA-PA	STQ 40005 - PIA-PA	STQ 40005 - PIA-PA	STQ 40005 - PIA-PR
				
Bracket for clamps Klammern für clamps Staffe per clamps 192	Plate for clamps Haltestücke für clamps Piastrina per clamps 193	Plate for clamps Haltestücke für clamps Piastrina per clamps 193	Plate for clamps Haltestücke für clamps Piastrina per clamps 194	Plate for clamps Haltestücke für clamps Piastrina per clamps 194

STQ 40006 - MOL	STQ 40006 - PRN	STQ 40007 - PFC	STQ 40008 - GRME	STQ 40009 - GRLO
Elastomer spring Elastomerfeder Molla in elastomero	Elastomer spring pin Aufnahmebolzen Perno per molle in elastomero	Visual locator Endkontrollstempel Gruppo punzone di visualizzazione	Stamp Buchstabenstempel Gruppo punzone marchio emblematico	Stamp Buchstabenstempel Gruppo punzone
195	195	196	196	197
STQ 40009 - TCON	STQ 40010 - CNT	STQ 40011 - CTN	STQ 40012 - ESP	STQ 40013 - CH
Backing plate Druckplatte Distanziale	Locating Zentrierung Centraggio stampo	Stop block Anschlag Fine corsa diritto e "V"	Spring plunger Federne druckstücke Espulsore a molla	Key Passfeder Chiavetta di reazione
197	198	198	199	199
STQ 40014 - RIF	STQ 40014 - RIF	STQ 40015 - PDC	STQ 40016 - TNRT	STQ 40017 - PRN
Gage Einweiser Riferimento	Gage Einweiser Riferimento	Locating pin Zentrierbolzen Centraggio	Retainer bolt Zugbolzensatz Gruppo tirante di sicurezza	Pad retainer pin Steckbolzen Perno di arresto
200	200	201	202	203
STQ 40018 - AMM	STQ 40019 - GRTI	STQ 40020 - DST	STQ 40021 - MOR	STQ 40100 - CH
Shock absorber Halteelementü Ammortizzatore	Retainer bolt Zugbolzensatz Gruppo tirante	Balance block Distanzstück Distanziale	Clamp Befestigungselement Morsetto	Key Passfeder Chiavetta
203	204	205	205	205

STQ 60000	STQ 60010 - ARR	STQ 60011 - ARR_AMM	STQ 60012 - LA	STQ 60012 - LA
				
	Stop block Anschlag Arresto	Slide stop block Schieberanschlag Arresto slitta	Wear plate steel Deckleiste Stahl Piastra guida in acciaio	Wear plate steel Deckleiste Stahl Piastra guida in acciaio
	206	206	207	207
STQ 60013 - P_CH	STQ 60013 - P_CS	STQ 60013 - SP_P	STQ 60014 - GA	STQ 60015 - FOR
				
Cam dowell wear Plate überlaufkeile Cuneo	Cam dowell wear Plate überlaufkeile Cuneo	Adjustment plate Einstellplatte Piastrina di regolazione	Positive return plate Zwangsrückholer Gancio di sicurezza	Fork pawl Befestigungsplatte Forcella nottolino
208	208	208	209	210
STQ 70000	STQ 70018 - NO	STQ 70019 - FO_NO	STQ 70022 - DU	STQ 70022 - DU
				
	Coupling nut Kupplungsmutter Aggancio staffa	Coupling plate Befestigungsplatte Staffa di reazione	Union nut Befestigungselemen Dado di unione	Union nut Befestigungselemen Dado di unione
	210	211	211	212
STQ 70040 - RE	STQ 70040 - RE	STQ 70040 - RE	STQ 80000	STQ 80001 - GRG_TRA
				
Pressure plate Druckplatte Piastra di reazione	Pressure plate Druckplatte Piastra di reazione	Pressure plate Druckplatte Piastra di reazione		Trestle guide group Führungsgruppe Gruppo guida traliccio
211	213	213		214

STQ 80002 - GRC_AR  Guide post group Führungssäule mit führungslager Gruppo colonna 215	STQ 80003 - GUN_M  Coil guide roller Bandführung Guida nastro mobile 215	STQ 80004 - GUN_F  Coil guide roller Bandführung Guida nastro fisso 216	STQ 80005 - GR_MO  Spring group Federeinheit Gruppo molla 216	STQ 80005 - GR_MTR  Spring group Federeinheit Gruppo molla 217
STQ 80005 - GR_MTR  Spring group Federeinheit Gruppo molla 217	STQ 80005 - GR_MTR  Spring group Federeinheit Gruppo molla 218	STQ 80006 - ROT  Roller Rolle Rotella 219	STQ 80007 - GR_RIM  Spring group Federeinheit Gruppo molla 219	STQ 80008 - SF  Ball caster Kugelrollensystem Sfera portante 220
STQ 80009 - ES  Stripper for blanking dies Abstreifer für platinenschnitte Estrattore per stampi 220	STQ 80010 - GRRI  Covering belt Abdeckung Gruppo riparo cinghia 220	STQ 80011 - GRSU  Support Halterung Gruppo supporto per pista magnetica 221	STQ 80012 - GR_SMF  Support Halterung Gruppo seal master support 221	STQ 80012 - GR_SMF  Support Halterung Gruppo seal master 222
STQ 80012 - GR_SMR  Support Halterung Gruppo seal master 222	STQ 80013 - GRRU_SN  Roller stock lifter Federnde lauffrolle Rullino sollevamento nastro 223	STQ 80014 - GRRU_EV  Roller Rolle Gruppo rullo di evacuazione 223	STQ 80015 - GR_AR  Pad retainer Zugbolzensatz Gruppo di arresto 224	STQ 80015 - GR_SI  Pad retainer Zugbolzensatz Gruppo di arresto 224

STQ 80016- GRA TRA



Lifter stop
Anschlag Heber
Gruppo arresto traliccio

225

STQ 80023- SP R



Roller group
Förderrolle
Gruppo rullini

226

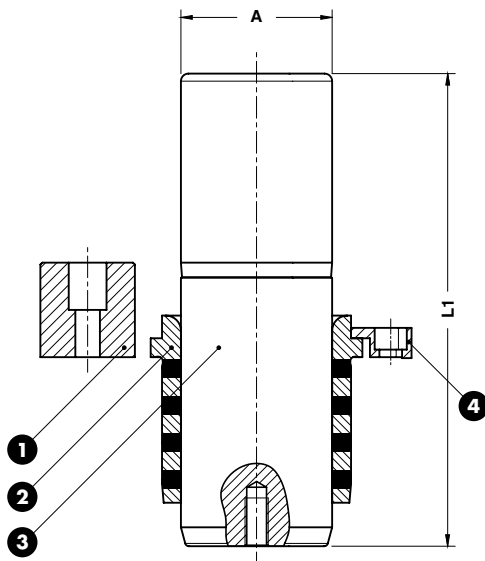
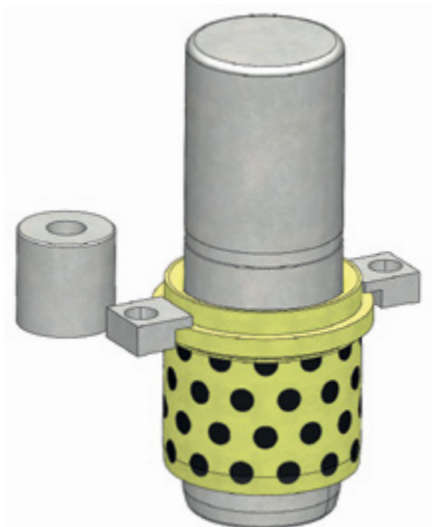
Notes

- 1 4** Material: CK45
STQ 40020 - STQ 10004
- 2** Material: Bronze + Graphite
HB >190 - STQ 10003
- 3** Material: 16MnCr5 - HRC: 60÷62
STQ 10002

Only for replacement
Nur für Reparatur
Solo per riparazione



Standard FCA



FCA CODE

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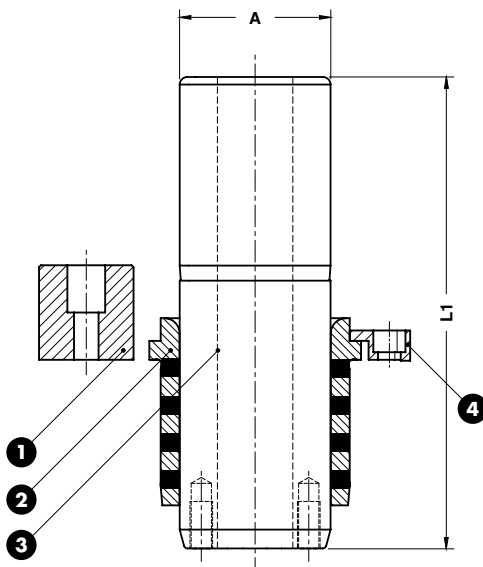
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GRC_080315_V	80	315	GRC_125355_V	125	355
GRC_080355_V	80	355	GRC_125400_V	125	400
GRC_100315_V	100	315	GRC_125450_V	125	450



Notes

- 1 4** **Material:** CK45
STQ 40020 - STQ 10004
- 2** **Material:** Bronze + Graphite
HB >190 - STQ 10003
- 3** **Material:** 16MnCr5 - **HRC:** 60÷62
STQ 10002

Only for replacement
Nur für Reparatur
Solo per riparazione



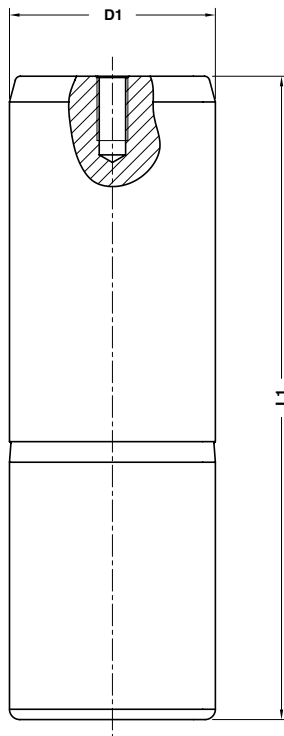
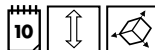
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GRCH_080280_V

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GRCH080315_V	80	315	GRCH125355_V	125	355
GRCH080355_V	80	355	GRCH125400_V	125	400
GRCH100315_V	100	315	GRCH125450_V	125	450

Notes

Material: 16MnCr5 - HRC 60±62



Standard FCA

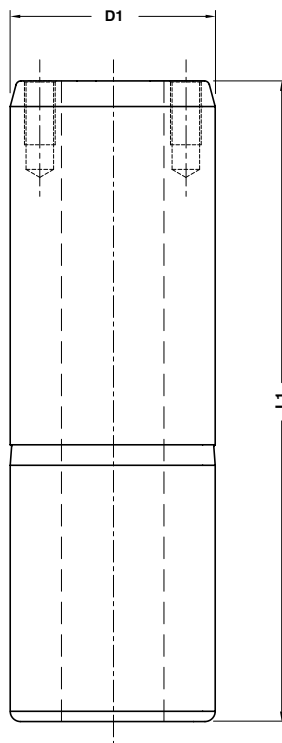


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COL_080315_V

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COL_080315_V	80	315	COL_125355_V	125	355
COL_080355_V	80	355	COL_125400_V	125	400
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Notes

Material: 16MnCr5 - HRC 60±62



FCA CODE

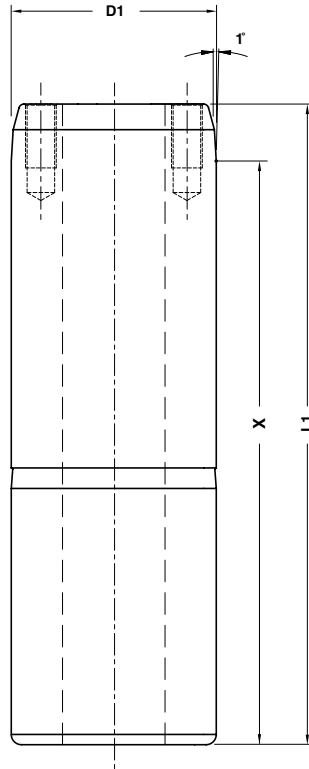
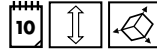
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COLH080280_V	80	280	COLH100400_V	100	400
COLH080315_V	80	315	COLH125355_V	125	355
COLH080355_V	80	355	COLH125400_V	125	400
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GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

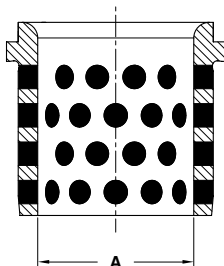
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Standard FCA

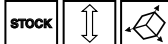
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COLH100355_T	100	355	290

BUSH SELF-LUBRICATING DIN 9834
FÜHRUNGSBUCHSE DIN 9834
BOCCOLA AUTOLUBRIFICANTE DIN 9834



Notes

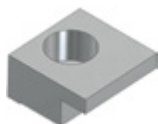
Material: Bronze + Graphite
HB > 190



FCA CODE
BOC_040063_V

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BOC_032050_V	32
BOC_040063_V	40
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BOC_063080_V	63
BOC_080100_V	80
BOC_100125_V	100
BOC_125160_V	125

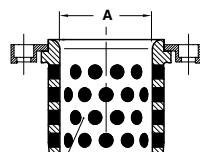
TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



Notes

Material: CK45

Application example



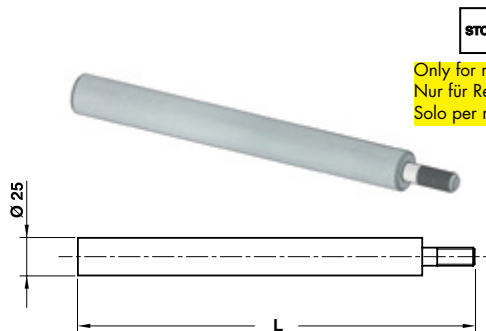
STQ10003-BOC



FCA CODE
RIT_202010

FCA CODE	A
RIT_202010	25÷50
RIT_323216	63÷160

GUIDE POST - FÜHRUNGSSAULE - COLONNA PER TRALICCIO

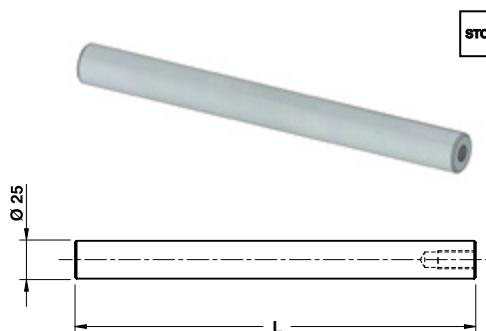


Only for replacement
Nur für Reparatur
Solo per riparazione

Notes	
Material: CK45 - HRC: 56÷58	
ORDER EXAMPLE	FCA CODE
	COL_025265_3A
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COL_025350_3B	350
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COL_025450_3D	450
COL_025500_3E	500

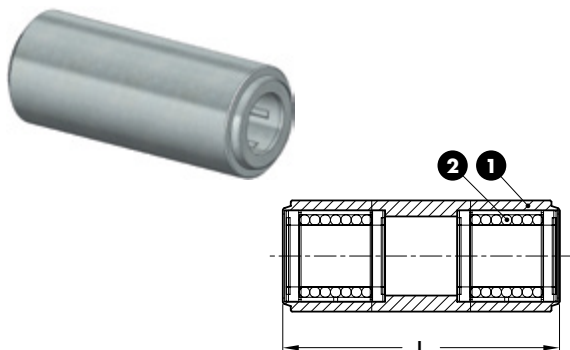
Standard FCA

GUIDE POST - FÜHRUNGSSAULE - COLONNA PER TRALICCIO



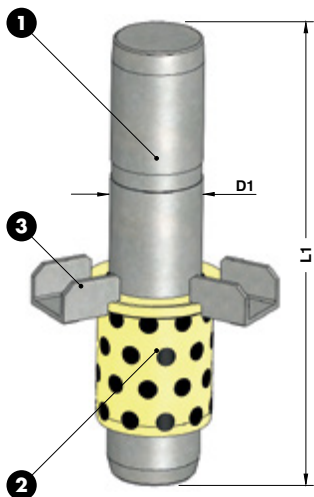
Notes	
Material: CK45 - HRC: 56÷58	
ORDER EXAMPLE	FCA CODE
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COL_025315_3B	315
COL_025365_3C	365
COL_025415_3D	415
COL_025465_3E	465

SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA



Notes	
1	Material: CK45
2	Material: STAR 0658-225-40
STOCK	
ORDER EXAMPLE	FCA CODE
	BOC_025112_4A
FCA CODE	L
BOC_025112_4A	112
BOC_025200_4B	200

GUIDE EJECTOR GROUP - AUSWERFERFÜHRUNG - GRUPPO GUIDA ESTRATTORE



STOCK



Notes

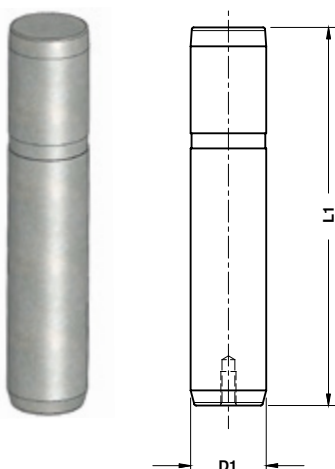
- 1 Material: CK45 - HRC: 58÷62
- 2 Material: Bronze + Graphite
HB >190
- 3 Material: CK45



ORDER EXAMPLE	FCA CODE
	GRC_PR_040224

FCA CODE	D1	L1
GRC_PR_040200	40	200
GRC_PR_040224	40	224
GRC_PR_040250	40	250
GRC_PR_050224	50	224
GRC_PR_050250	50	250
GRC_PR_050280	50	280
GRC_PR_063250	63	250
GRC_PR_063280	63	280
GRC_PR_063315	63	315

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



STOCK



Notes

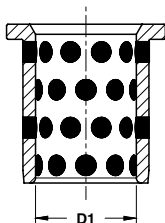
Material: CK45 - HRC: 58÷62



ORDER EXAMPLE	FCA CODE
	CO_PR_040224

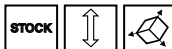
FCA CODE	D1	L1
CO_PR_040200	40	200
CO_PR_040224	40	224
CO_PR_040250	40	250
CO_PR_050224	50	224
CO_PR_050250	50	250
CO_PR_050280	50	280
CO_PR_063250	63	250
CO_PR_063280	63	280
CO_PR_063315	63	315

BUSH SELF LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB >190



FCA CODE
BO_PR_40

FCA CODE	D1
BO_PR_40	40
BO_PR_50	50
BO_PR_63	63
BO_PR_80	80

Standard FCA

TOE CLAMP - HALTESTÜCK - RITEGNO



Notes

Material: CK45



FCA CODE
RIT_152327

FCA CODE
RIT_152327

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**

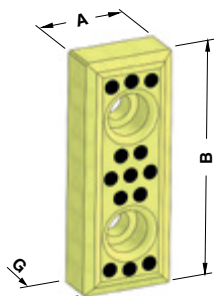
Notes

Material: Bronze + Graphite -

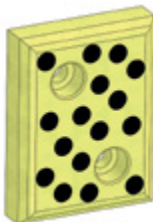
Only for replacement

Nur für Reparatur

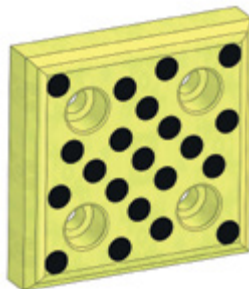
Solo per riparazione



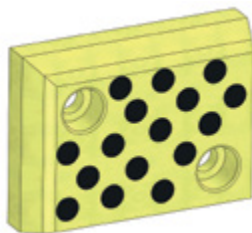
FORM A



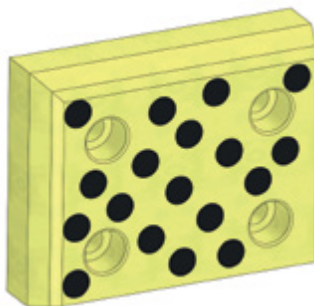
FORM B



FORM C



FORM D



FORM E



FCA CODE

BR2

FCA CODE	A	B	G	FORM	FCA CODE	A	B	G	FORM
BR1	38	100	20	A	BR6	100	150	20	C
BR2	38	150	20	A	BR10	100	75	18	D
BR3	75	100	20	B	BR11	125	100	25	E
BR4	75	150	20	A	BR12	150	125	25	E
BR5	100	100	20	C					

WEAR PLATE STEEL
GLEITPLATTE STAHL
PIASTRA GUIDA IN ACCIAIO

Notes

Material: 16MnCr5 - **HRC:** 58±60

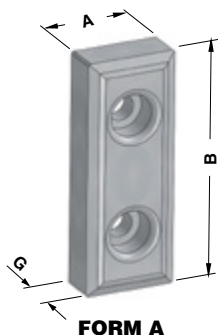
Only for replacement

Nur für Reparatur

Solo per riparazione



Standard FCA



FCA CODE
ACC2

FCA CODE	A	B	G	FORM
ACC1	38	100	20	A
ACC2	38	150	20	A
ACC3	75	100	20	B
ACC4	75	150	20	A
ACC5	100	100	20	C

FCA CODE	A	B	G	FORM
ACC6	100	150	20	C
ACC10	100	75	18	D
ACC11	125	100	25	E
ACC12	150	125	25	E

**DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
DISTRANZIALE PER PIASTRA GUIDA**

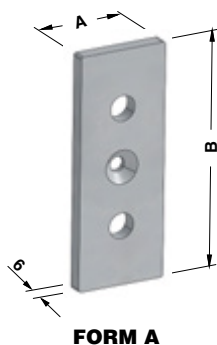
Notes

Material: Si37

Only for replacement

Nur für Reparatur

Solo per riparazione



FORM A



FORM B



FORM C



FCA CODE

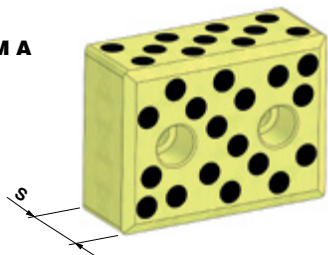
TIPO 2-S-B

FCA CODE	A	B	FORM
TIPO 1-S-B	38	100	A
TIPO 2-S-B	38	150	A
TIPO 3-S-B	75	100	B
TIPO 4-S-B	75	150	A
TIPO 5-S-B	100	100	C

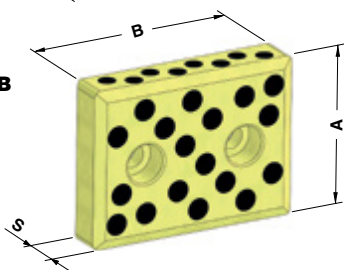
FCA CODE	A	B	FORM
TIPO 6-S-B	100	150	C
TIPO 10-S-B	100	75	B
TIPO 11-S-B	125	100	C
TIPO 12-S-B	150	125	C

GUIDE BAR SELF-LUBRICATING
FÜHRUNGSLEITE BRONZE MIT FESTSCHMIERSTOFF
LARDONE AUTOLUBRIFICANTE

FORM A



FORM B



Notes

Material: Bronze + Graphite -

Only for replacement
 Nur für Reparatur
 Solo per riparazione



FCA CODE

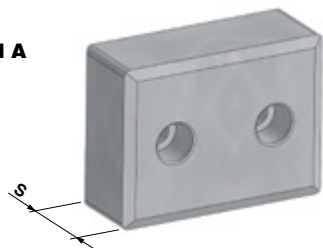
BR31

FCA CODE	A	B	S	FORM
BR30	48	100	20	B
BR31	48	150	20	B
BR32	75	100	20	B
BR33	75	150	20	B
BR7	75	100	38	A
BR8	75	150	38	A

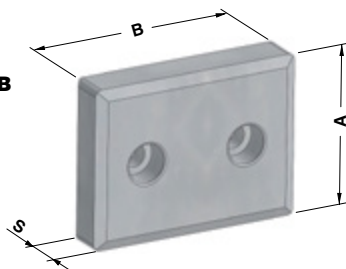
Standard FCA

GUIDE BAR STEEL
FÜHRUNGSLEITE STAHL
LARDONE IN ACCIAIO

FORM A



FORM B



Notes

Material: 16MnCr5 - HRC: 58÷60

Only for replacement
 Nur für Reparatur
 Solo per riparazione



FCA CODE

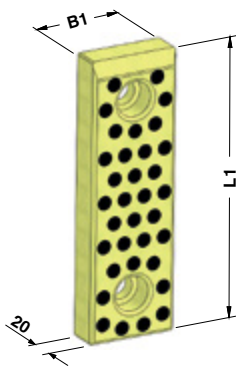
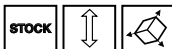
ACC31

FCA CODE	A	B	S	FORM
ACC30	48	100	20	B
ACC31	48	150	20	B
ACC32	75	100	20	B
ACC33	75	150	20	B
ACC7	75	100	38	A
ACC8	75	150	38	A

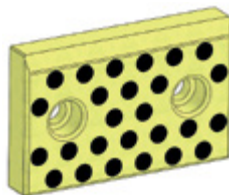
**WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**

Notes

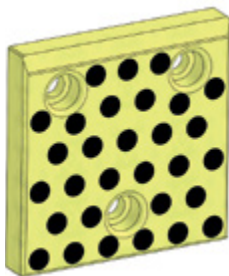
Material: Bronze + Graphite - **HB > 190**



FORM A



FORM B



FORM C



FORM D



FCA CODE
PBR_05020100

FCA CODE	B1	L1	FORM
PBR_05020080	50	80	A
PBR_05020100	50	100	A
PBR_05020125	50	125	A
PBR_05020160	50	160	A
PBR_05020200	50	200	A
PBR_08020050	80	50	B
PBR_08020080	80	80	A
PBR_08020100	80	100	A
PBR_08020125	80	125	A
PBR_08020160	80	160	A
PBR_08020200	80	200	A
PBR_10020050	100	50	B

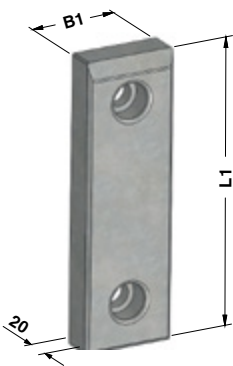
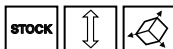
FCA CODE	B1	L1	FORM
PBR_10020080	100	80	B
PBR_10020100	100	100	A
PBR_10020125	100	125	A
PBR_10020160	100	160	A
PBR_10020200	100	200	A
PBR_10020250	100	250	A
PBR_10020315	100	315	A
PBR_12520050	125	50	B
PBR_12520080	125	80	B
PBR_12520100	125	100	C
PBR_12520125	125	125	C
PBR_12520160	125	160	C

FCA CODE	B1	L1	FORM
PBR_12520200	125	200	C
PBR_12520250	125	250	C
PBR_12520315	125	315	C
PBR_16020050	160	50	B
PBR_16020080	160	80	B
PBR_16020100	160	100	C
PBR_16020125	160	125	C
PBR_16020160	160	160	C
PBR_16020200	160	200	C
PBR_16020250	160	250	D
PBR_16020315	160	315	D

**WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357**

Notes

Material: 16MnCr5 - **HRC:** 58÷62



FORM A



FORM B



FORM C



FORM D



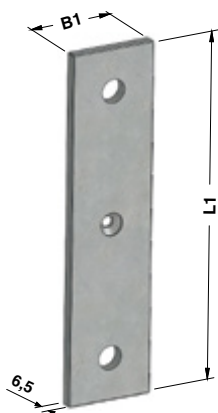
FCA CODE
PAC_05020100

FCA CODE	B1	L1	FORM
PAC_05020080	50	80	A
PAC_05020100	50	100	A
PAC_05020125	50	125	A
PAC_05020160	50	160	A
PAC_05020200	50	200	A
PAC_08020050	80	50	B
PAC_08020080	80	80	A
PAC_08020100	80	100	A
PAC_08020125	80	125	A
PAC_08020160	80	160	A
PAC_08020200	80	200	A
PAC_10020050	100	50	B

FCA CODE	B1	L1	FORM
PAC_10020080	100	80	B
PAC_10020100	100	100	A
PAC_10020125	100	125	A
PAC_10020160	100	160	A
PAC_10020200	100	200	A
PAC_10020250	100	250	A
PAC_10020315	100	315	A
PAC_12520050	125	50	B
PAC_12520080	125	80	B
PAC_12520100	125	100	C
PAC_12520125	125	125	C
PAC_12520160	125	160	C

FCA CODE	B1	L1	FORM
PAC_12520200	125	200	C
PAC_12520250	125	250	C
PAC_12520315	125	315	C
PAC_16020050	160	50	B
PAC_16020080	160	80	B
PAC_16020100	160	100	C
PAC_16020125	160	125	C
PAC_16020160	160	160	C
PAC_16020200	160	200	C
PAC_16020250	160	250	D
PAC_16020315	160	315	D

**DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
DISTANZIALE PER PIASTRA**



FORM A



FORM B



FORM C



FORM D

Notes

Material: S37

STOCK

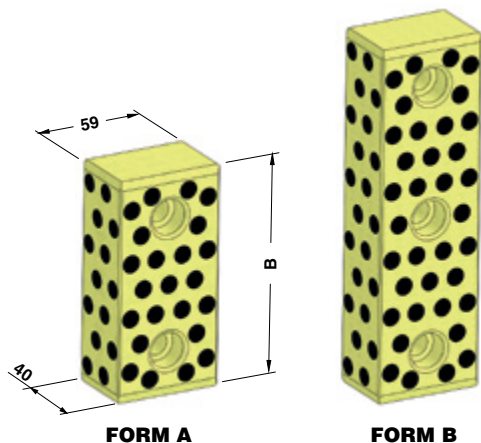


FCA CODE

PSP_08006050



FCA CODE	B1	L1	FORM	FCA CODE	B1	L1	FORM	FCA CODE	B1	L1	FORM
PSP_05006200	48	198	A	PSP_10006160	98	158	A	PSP_12506315	123	313	C
PSP_08006050	78	48	B	PSP_10006200	98	198	A	PSP_16006050	158	48	B
PSP_08006080	78	78	A	PSP_10006250	98	248	A	PSP_16006100	158	98	C
PSP_08006100	78	98	A	PSP_10006315	98	313	A	PSP_16006125	158	123	C
PSP_08006125	78	123	A	PSP_12506050	123	48	B	PSP_16006160	158	158	C
PSP_08006160	78	158	A	PSP_12506100	123	98	C	PSP_16006200	158	198	C
PSP_08006200	78	198	A	PSP_12506125	123	123	C	PSP_16006250	158	248	D
PSP_10006050	98	48	B	PSP_12506160	123	158	C	PSP_16006315	158	313	D
PSP_10006100	98	98	A	PSP_12506200	123	198	C				
PSP_10006125	98	123	A	PSP_12506250	123	248	C				


**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



Notes

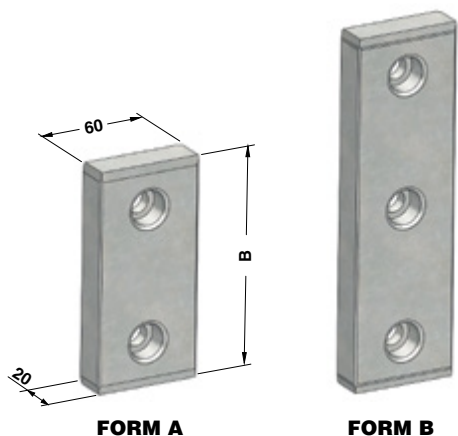
Material: Bronze + Graphite - **HB**>190

STOCK  

	FCA CODE		
	P2S_060040125		
FCA CODE	B	FORM	
P2S_060040125	125	A	
P2S_060040160	160	A	
P2S_060040200	200	B	



Standard FCA


**WEAR PLATE STEEL
GLEITPLATTE STAHL
PIASTRA GUIDA IN ACCIAIO**



Notes

Material: 16MnCr5 - **HRC:** 58÷62

STOCK  

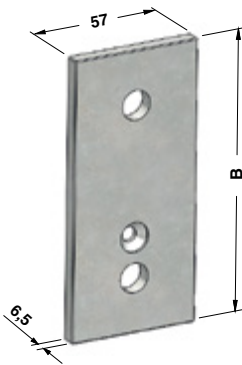
	FCA CODE		
	PA2S_059020160		
FCA CODE	B	FORM	
PA2S_059020125	125	A	
PA2S_059020160	160	A	
PA2S_059020200	200	B	
PA2S_059020250	250	B	
PA2S_059020320	320	B	

**DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
Distanziale per piastra**

Notes

Material: S37

STOCK



FORM A



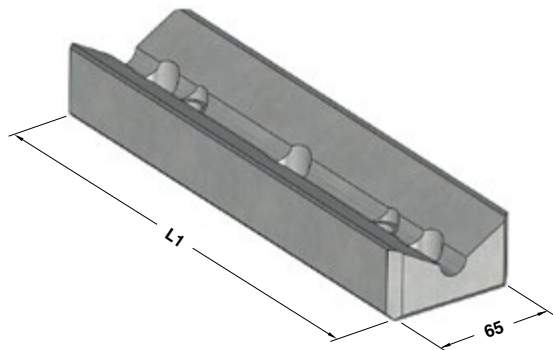
FORM B



FCA CODE
PSP2S_057006158


FCA CODE	B	FORM
PSP2S_057006123	123	A
PSP2S_057006158	158	A
PSP2S_057006198	198	B
PSP2S_057006248	248	B
PSP2S_057006318	318	B

"V" DRIVER STEEL VDI 3357
PRISMENFÜHRUNG STAHL VDI 3357
GUIDA A "V" IN ACCIAIO VDI 3357



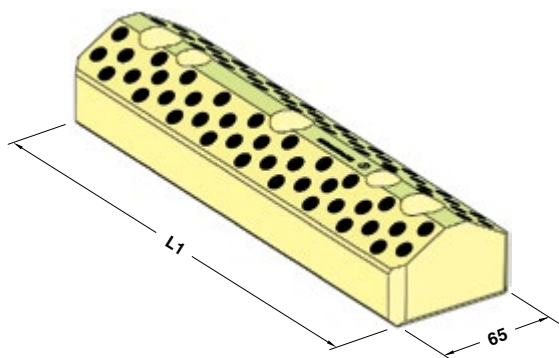
Notes
Material: CK45 - HRC: 58÷60



	FCA CODE
	G_V_200065_F
FCA CODE	
L1	
G_V_150065_F	150
G_V_200065_F	200
G_V_250065_F	250
G_V_300065_F	300


Standard FCA

"V" DRIVER SELF-LUBRICATING VDI 3357
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA A "V" AUTOLUBRIFICANTE VDI 3357

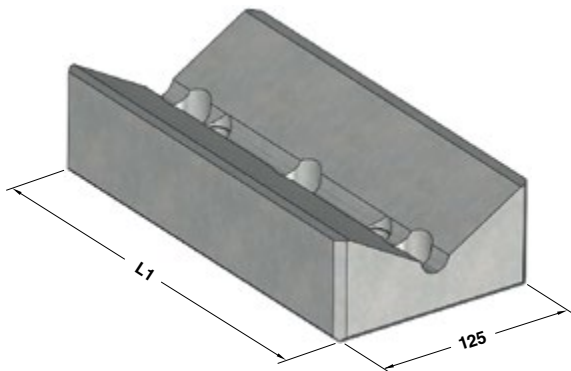


Notes
Material: Bronze + Graphite - HB>190




	FCA CODE
	G_V_200065_M
FCA CODE	
L1	
G_V_150065_M	150
G_V_200065_M	200
G_V_250065_M	250
G_V_300065_M	300

"V" DRIVER STEEL VDI 3357
PRISMENFÜHRUNG STAHL VDI 3357
GUIDA A "V" IN ACCIAIO VDI 3357

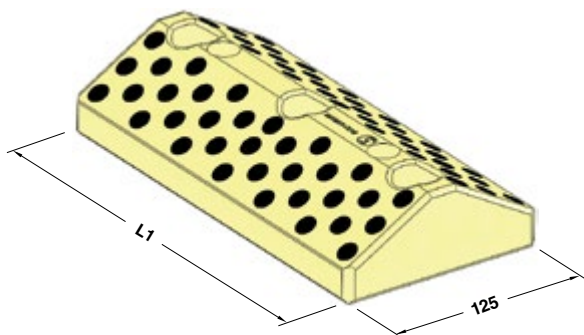


Notes
Material: CK45 - **HRC:** 58÷60




	FCA CODE
	G_V_200125_F
FCA CODE	L1
G_V_150125_F	150
G_V_200125_F	200
G_V_250125_F	250
G_V_300125_F	300

"V" DRIVER SELF-LUBRICATING VDI 3357
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA A "V" AUTOLUBRIFICANTE VDI 3357

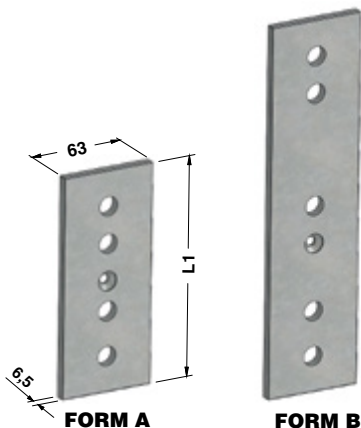


Notes
Material: Bronze + Graphite - **HB**>190



	FCA CODE
	G_V_200125_M
FCA CODE	L1
G_V_150125_M	150
G_V_200125_M	200
G_V_250125_M	250
G_V_300125_M	300

DISTANCE PLATE FOR "V" DRIVER HÖHENAUSGLEICH FÜR PRISMENFUHRUNG DISTANZIALE PER GUIDA A "V"



Notes

Material: St37

STOCK

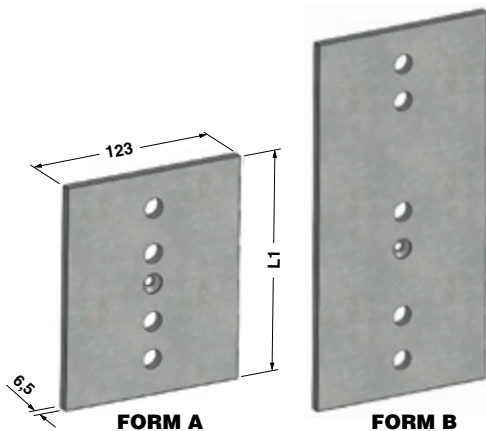


FCA CODE

SP_V_06200065

FCA CODE	For "V" driver	L1	FORM	FCA CODE	For "V" driver	L1	FORM
SP_V_06150065	G_V_150065_M	148	A	SP_V_06250065	G_V_250065_M	248	B
SP_V_06200065	G_V_200065_M	198	A	SP_V_06300065	G_V_300065_M	298	B

DISTANCE PLATE FOR "V" DRIVER HÖHENAUSGLEICH FÜR PRISMENFUHRUNG DISTANZIALE PER GUIDA A "V"



Notes

Material: St37

STOCK



FCA CODE

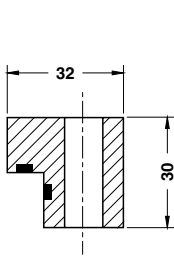
SP_V_06200125

FCA CODE	For "V" driver	L1	FORM	FCA CODE	For "V" driver	L1	FORM
SP_V_06150125	G_V_150125_M	148	A	SP_V_06250125	G_V_250125_M	248	B
SP_V_06200125	G_V_200125_M	198	A	SP_V_06300125	G_V_300125_M	298	B

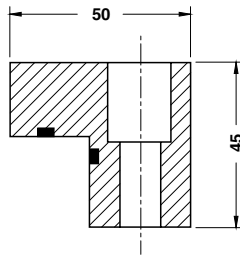
ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

Notes

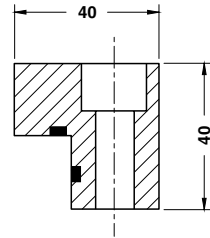
Material: Bronze + Graphite -
 Only for replacement
 Nur für Reparatur
 Solo per riparazione



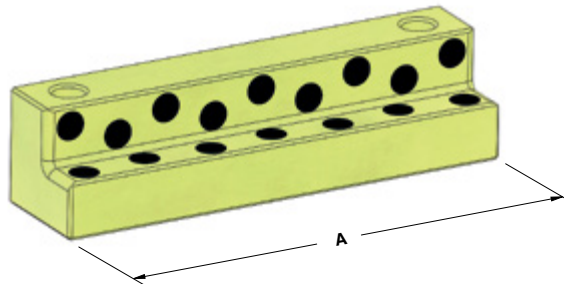
FORM A



FORM B



FORM C



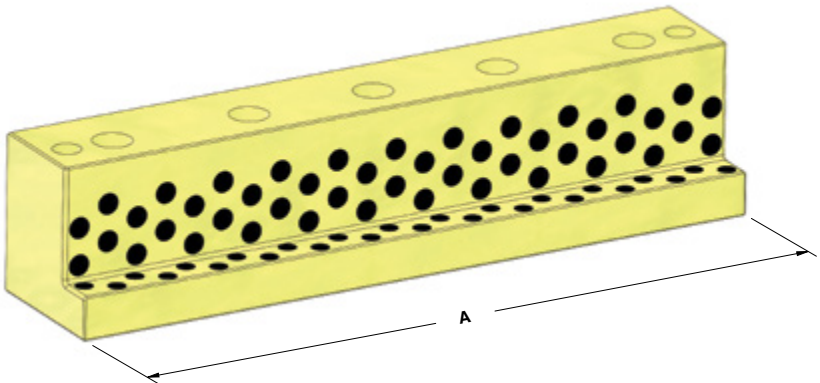
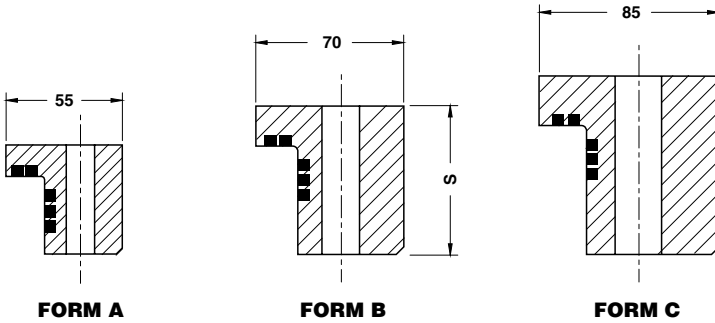
FCA CODE
BR 16

FCA CODE	A	FORM	FCA CODE	A	FORM
BR 15	100	A	BR 19	300	B
BR 16	150	A	BR 27	160	C
BR 17	200	B	BR 28	250	C
BR 18	250	B			

ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

Notes

Material: Bronze + Graphite - HB > 190



Standard FCA

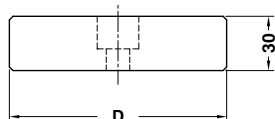


FCA CODE

G_L_055055160

FCA CODE	A	S	FORM	FCA CODE	A	S	FORM
G_L_055055100	100	55	A	G_L_070075400	400	75	B
G_L_055055160	160	55	A	G_L_085090160	160	90	C
G_L_070075160	160	75	B	G_L_085090200	200	90	C
G_L_070075200	200	75	B	G_L_085090250	250	90	C
G_L_070075250	250	75	B	G_L_085090400	400	90	C

COMPENSATION BLOCK - ABSTANDSBLOCK - TASSELLO DI COMPENSAZIONE



Notes

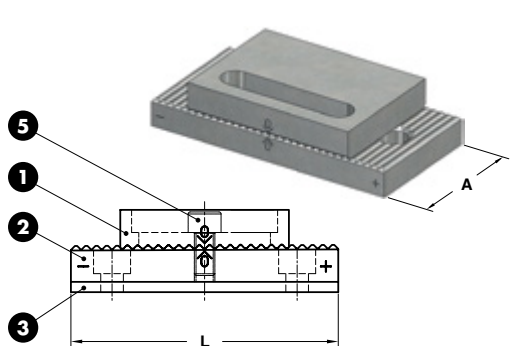
Material: 42CrMo4 - HRC: 46÷48



FCA CODE
TC_100030

FCA CODE	D
TC_080030	80
TC_100030	100
TC_120030	120

SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE



Notes

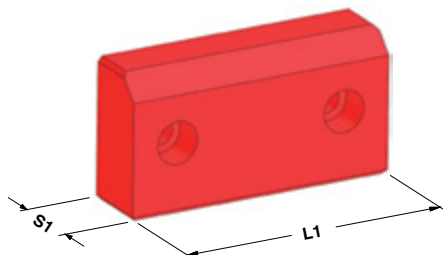
- 1 Material: 90MnGV8 - HRC: 58÷60
- 2 Material: X155CrVMo12
- 3 DIN 912



FCA CODE
TCRS_16080

FCA CODE	A	L
TCRS_13060	60	130
TCRS_16080	80	160

PRE-CENTERING PUNCH - STEMPELVORZENTRIERUNG - PRECENTRAGGIO PUNZONE



Notes

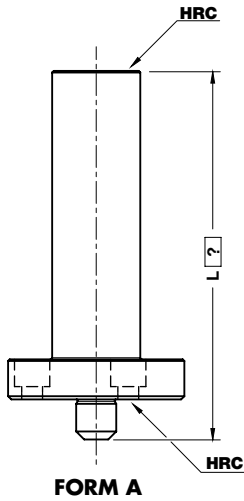
Material: Urelast 90 SH



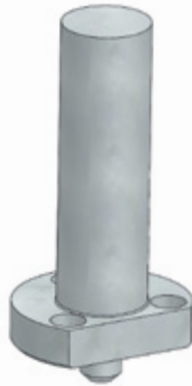
FCA CODE
PPSP_90SH

FCA CODE	L1	S1
PPSP_90SH	115	31
PPSP100_90SH	100	20

AIR PIN - UNTERLUFTBOLZEN - CANDELA



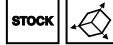
FORM A



FORM B

Notes

Material: 42CrMo4
HRC: 50±52

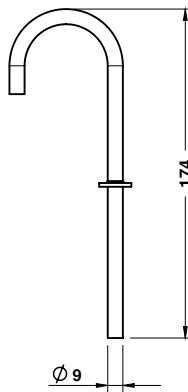


FCA CODE	L=150
CA_B	150

FCA CODE	FORM
CA_A	A
CA_B	B

Standard FCA

AIR RELIEF TUBING - TUBE - TUBETTO SFOGO ARIA



Notes

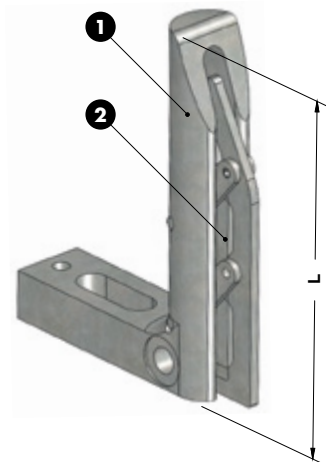
Material: Steel



FCA CODE	TU_08174
----------	----------

FCA CODE
TU_08174

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE



Notes

- 1 Material: CK60
- 2 Material: St37 - HRC: 58÷60



ORDER EXAMPLE	FCA CODE
	RIF_M12L150
FCA CODE	
L	
RIF_M12L120	120
RIF_M12L150	150
RIF_M12L180	180
RIF_M12L250	250

BUSH - BUCHS - BOCCOLA



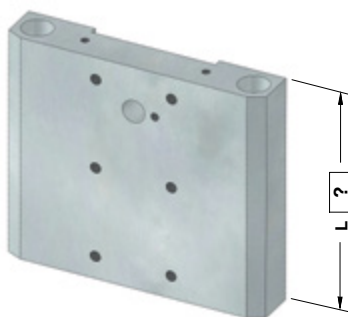
Notes

Material: 16MnCr5 - HRC: 58÷60



ORDER EXAMPLE	FCA CODE
	BOCB_060125
FCA CODE	
BOCB_060125	

REAR GUIDE - HINTERE FÜHRUNG - GUIDA POSTERIORE



Notes

Material: 16MnCr5 - HRC: 58÷60



FCA CODE

L=300

GU_030170

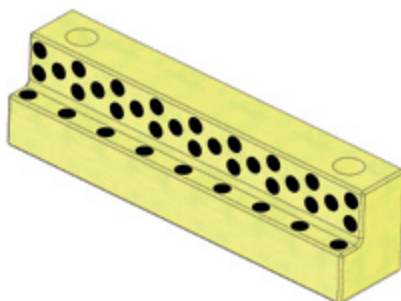
300

FCA CODE

GU_030170

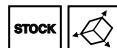
Standard FCA

ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE



Notes

Material: Bronze + Graphite - HB > 190



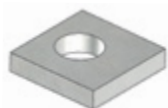
FCA CODE

A919/SPF-150

FCA CODE

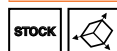
A919/SPF-150

TOE CLAMP - HALTESTÜCK - RITEGNO



Notes

Material: St37



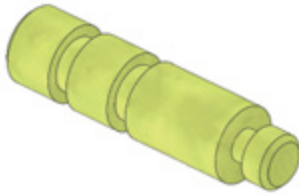
FCA CODE

RIT_015015003

FCA CODE

RIT_015015003

PIN - STECKBOLZEN - PERNO



Notes

Material: Brass

STOCK



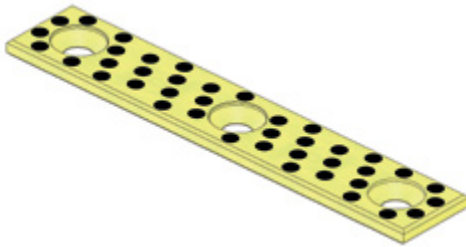
FCA CODE

PE_015073

FCA CODE

PE_015073

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

Material: Bronze + Graphite - **HB** > 190

STOCK



FCA CODE

E40.04.02805150

FCA CODE

E40.04.02805150

PAWL - KLINKE - NOTTOLINO



Notes

Material: CK45

STOCK



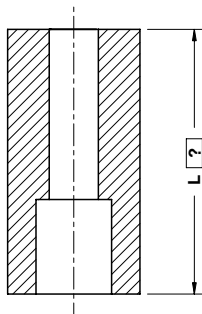
FCA CODE

NOT_040040

FCA CODE

NOT_040040

HOOKUP - HINWEIS - RIMANDO



Notes
Material: 16MnCr5 - **HRC:** 58+60

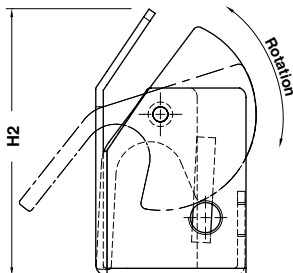


ORDER EXAMPLE	FCA CODE	L=150
	FLPPA	150

FCA CODE	
FLPPA	

Standard FCA

FRONT GAGE - EINLAUFANSCHLAG - PORTASENSORE



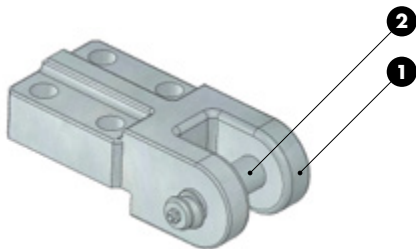
Notes
Material: S137
 Only for replacement
 Nur für Reparatur
 Solo per riparazione



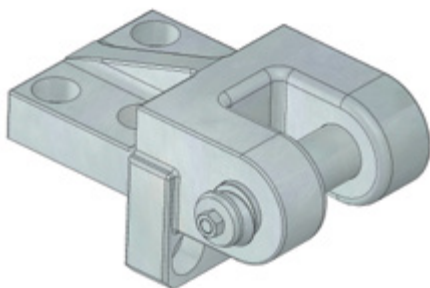
ORDER EXAMPLE	FCA CODE
	RIF_M18L150

FCA CODE		H2
RIF_M18L120	117	
RIF_M18L150	142	
RIF_M18L180	192	

LIFTING BRACKET WITH LIFTING BOLT TRAGWANGE MIT TRAGBOLZEN MIT FALLRINGSICHERUNG STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO



FORM A



FORM B



Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwangen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

① **Material:** CK45 - 800÷1000 N/mm²

② **Material:** CK45

Screws not included



FCA CODE
GR_ST_KG1000

FCA CODE	Max load (kg)	Max die weight (kg)	FORM	LIFTING BRACKET	LIFTING BOLT
GR_ST_KG600	600	1200	A	ST_KG600_S	ST_KG600_P
GR_ST_KG1000	1000	2000	A	ST_KG1000_S	ST_KG1000_P
GR_ST_KG2000	2000	4000	A	ST_KG2000_S	ST_KG2000_P
GR_ST_KG4000	4000	8000	B	ST_KG4000_S	ST_KG4000_P
GR_ST_KG7000	7000	14000	B	ST_KG7000_S	ST_KG7000_P

REPLACEMENT LIFTING PIN FOR LIFTING BRACKET ERSATZTRAGBOLZEN FÜR TRAGWANGE PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

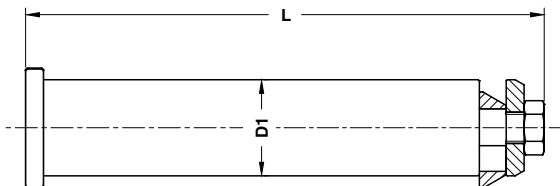
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: CK45



FCA CODE

ST_KG1000_P

FCA CODE	Max load (kg)	Max die weight (kg)	L	D1
ST_KG600_P	600	1200	102,5	15,6
ST_KG1000_P	1000	2000	113,5	20,6
ST_KG2000_P	2000	4000	128,5	25,6
ST_KG4000_P	4000	8000	166,5	33
ST_KG7000_P	7000	14000	210,5	43

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

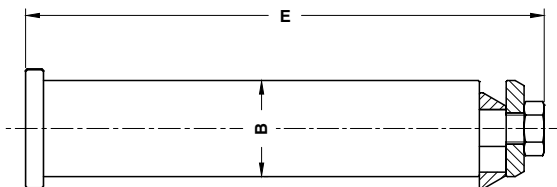
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

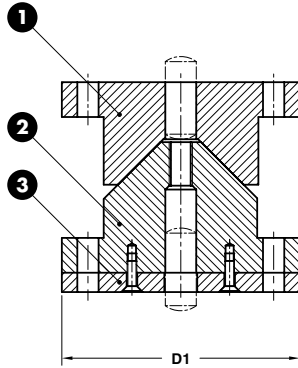
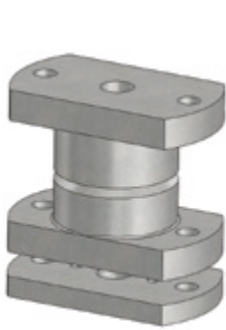
Material: CK45



FCA CODE
SOL_KG3200

FCA CODE	Max load (kg)	Max die weight (kg)	E	B	FCA CODE	Max load (kg)	Max die weight (kg)	E	B
SOL_KG2000	2000	4000	178,5	29	SOL_KG8000_T	8000	16000	227	53
SOL_KG3200	3200	6400	200,5	33	SOL_KG13000_T	13000	26000	272,5	63
SOL_KG5000	5000	10000	233	43					
SOL_KG8000	8000	16000	282	53					
SOL_KG12000	12000	24000	352,5	63					

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



Notes

1 2

Material: 16MnCr5 - HRC: 60÷62

3

Material: CK45

STOCK



FCA CODE

CN_120_B

FCA CODE

D1

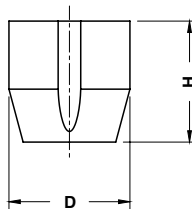
CN_100_B

100

CN_120_B

120

ELASTOMER CAP - ELASTOMERDRUCKSTÜK - PUNTALINO ELASTICO



Notes

Material: Urelast 92 SH

STOCK

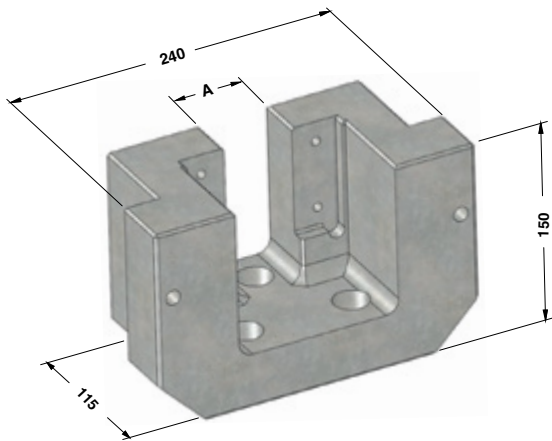


FCA CODE

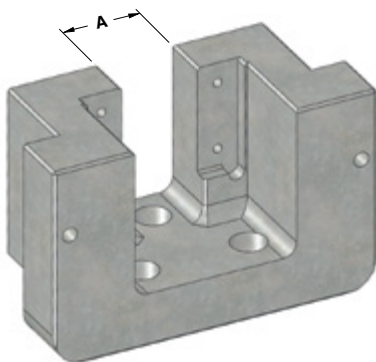
PU_EL_10

FCA CODE	D	H	F max (N)	FCA CODE	D	F	F max (N)
PU_EL_06	6	9,5	100	PU_EL_30	30	35	3000
PU_EL_10	10	15,5	450	PU_EL_32	32	32	12000
PU_EL_16	16	25	1500	PU_EL_39,5	39,5	40	25000
PU_EL_24	24	25	3000				

BRACKET FOR CLAMPS - KLAMMERN FÜR CLAMPS - STAFFE PER CLAMPS



ST_S01



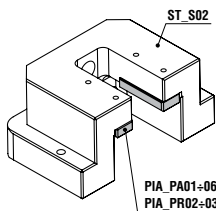
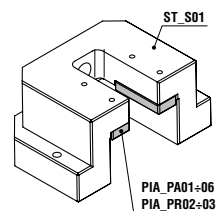
ST_S02

Notes

Material: 36CrNiMo4
950 ± 1000 N/mm²



Application example*



* See STD 10062
Sehen STD 10062
Vedi STD 10062


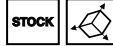
	FCA CODE
	ST_S02
FCA CODE	A
ST_S01	51
ST_S02	56

PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE

Notes

Material: 36CrNiMo4 · **HRC:** 50+52



FCA CODE

PIA_PA01

FCA CODE

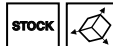
PIA_PA01

Standard FCA

PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE

Notes

Material: 36CrNiMo4 · **HRC:** 50+52



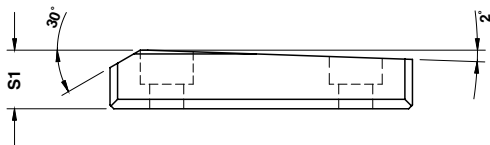
FCA CODE

PIA_PA02

FCA CODE

PIA_PA02

PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE



Notes

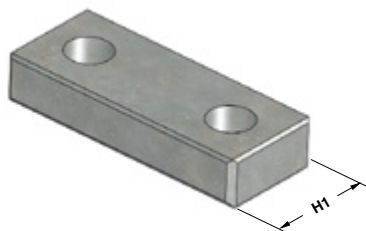
Material: 36CrNiMo4 · **HRC:** 50±52



FCA CODE	
PIA_PA05	

FCA CODE	S1
PIA_PA05	15.5
PIA_PA06	20.5

PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE



Notes

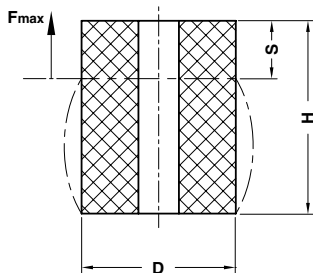
Material: 36CrNiMo4 · **HRC:** 50±52



FCA CODE	
PIA_PR03	

FCA CODE	H1
PIA_PR02	32.5
PIA_PR03	35

ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO



Notes

Material: Elastomer 92SH



$S = \max. 30\% H$

STOCK



FCA CODE

MOL_080080

FCA CODE	D	H	S	Fmax (N)	FCA CODE	D	H	S	Fmax (N)	FCA CODE	D	H	S	Fmax (N)
MOL_063100	63	100	30	2600	MOL_100080	100	80	24	5900	MOL_125125	125	125	37.5	9900
MOL_080080	80	80	24	4300	MOL_100100	100	100	30	5900	MOL_125160	125	160	48	9900
MOL_080100	80	100	30	4300	MOL_100125	100	125	37.5	5900					
MOL_080125	80	125	37.5	4300	MOL_125100	125	100	30	9900					

ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE IN ELASTOMERO

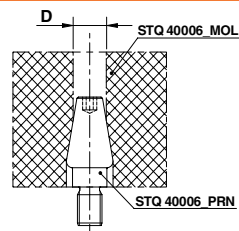
STOCK



Notes

Material: CK45

Application example

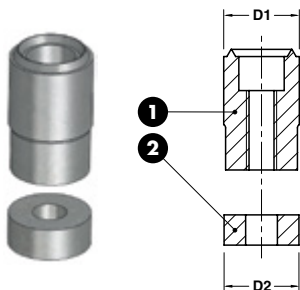


FCA CODE

PRN_MO_M16

FCA CODE	D	D2	L
PRN_MO_M12	63-80	28	56
PRN_MO_M16	100	32	74
PRN_MO_M20	125	38	100

VISUAL LOCATOR - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



Notes

① **Material:** X210Cr12
HRC: 60÷62

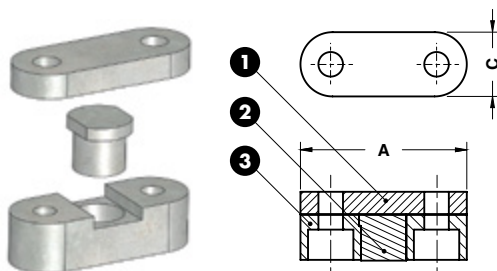
② **Material:** 42CrNiMo4



ORDER EXAMPLE	FCA CODE
	PFC_016

FCA CODE	D1	D2
PFC_012	13	12
PFC_016	19	18
PFC_018	25	24

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO EMBLEMATICO



Notes

① ②
Material: 90MnCrV8 - **HRC:** 54÷56

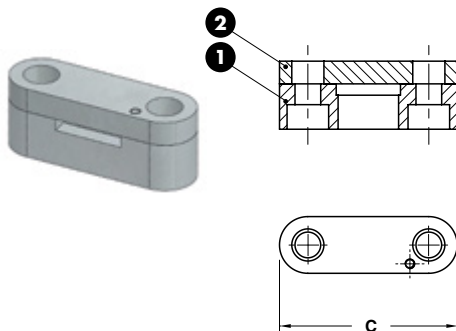
③ **Material:** 36CrNiMo4 - **HRC:** 48÷50



ORDER EXAMPLE	FCA CODE
	GRME_N15052022

FCA CODE	A	C
GRME_N10044017	44	17
GRME_N15052022	52	22

STAMP - BUCHSTABENSTEMPEL - GRUPPO PUNZONE



Notes

1 2 Material: CK45

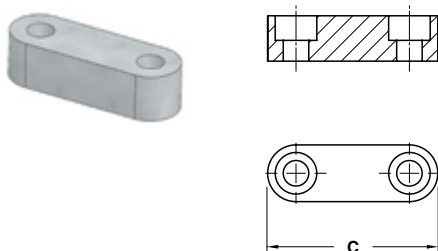


FCA CODE
GRLO_4P_163247

FCA CODE	C	Nr. of Punch
GRLO_3P_123045	45	3
GRLO_4P_163247	47	4
GRLO_8P_324863	63	8

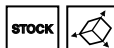
Standard FCA

BACKING PLATE - DRUCKPLATTE - DISTANZIALE



Notes

Material: CK45



FCA CODE
TCON_4P_163247

FCA CODE	C	Nr. of punch
TCON_3P_123045	45	3
TCON_4P_163247	47	4
TCON_8P_324863	63	8

LOCATING - ZENTRIERUNG - CENTRAGGIO STAMPO



Notes	
Material: 36CrNiMo4	



	FCA CODE
	CNT_ST_01
FCA CODE	
CNT_ST_01	

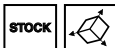
STOP BLOCK - ANSCHLAG - FINE CORSA DIRITTO E A "V"



CTN_ST_02

CTN_ST_03

Notes	
Material: 36CrNiMo4	



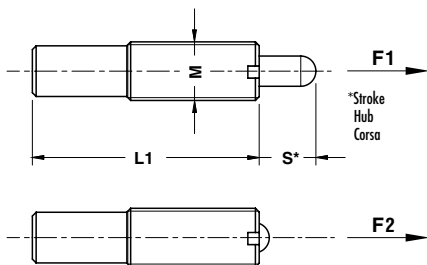
	FCA CODE
	CTN_ST_03
FCA CODE	
CTN_ST_02	
CTN_ST_03	

SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA

Spring plungers can be fitted/removed by means of the slot or internal hexagon.

Montage/demontage mit Innensechskant und Schlitz möglich.

Il montaggio/smontaggio avviene sia tramite l'esagono incassato, che tramite l'intaglio frontale.



Notes

Material: Steel



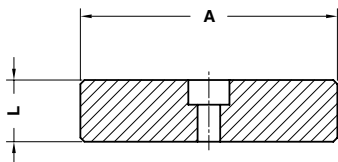
FCA CODE

ESP_H_M1615

FCA CODE	M	L1	S	F1 (N/mm ²)	F2 (N/mm ²)
ESP_H_M1210	M12	45	10	7	40
ESP_H_M1615	M16	60	15	15	80
ESP_H_M1630	M16	125	30	20	80

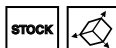
Standard FCA

KEY - PASSFEDER - CHIAVETTA DI REAZIONE



Notes

Material: CK45

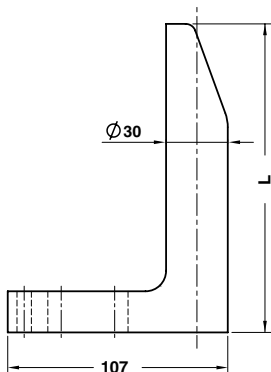


FCA CODE

CH_R_025125

FCA CODE	A	L
CH_R_025080	80	25
CH_R_025125	125	25
CH_R_030080	80	30
CH_R_030125	125	30
CH_R_034090	90	34

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60

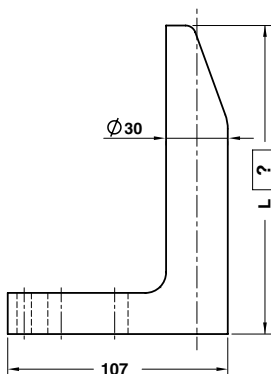


FCA CODE

RIF_L_090

FCA CODE	L
RIF_L_065	65
RIF_L_090	90
RIF_L_120	120
RIF_L_150	150
RIF_L_180	180
RIF_L_250	250

GAGE - EINWEISER - RIFERIMENTO



Lmax=350

Notes

Material: CK60



FCA CODE

RIF_L

L=110

110

FCA CODE
RIF_L

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO

Notes

Material: 16MnCr5 - **HRC:** 58+60

STOCK



Standard FCA



FCA CODE
PDC_04055

FCA CODE
PDC_04055

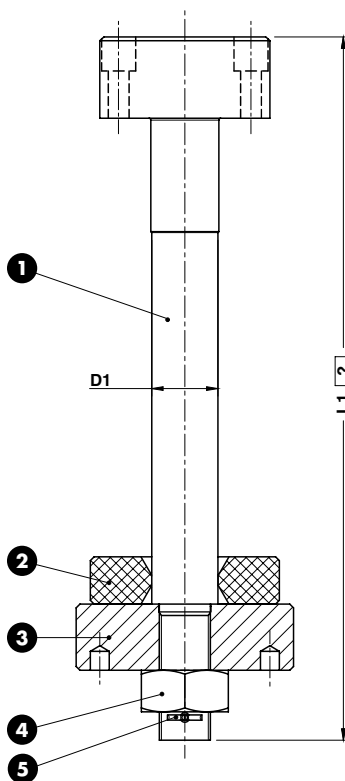
RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE DI SICUREZZA



Notes

- 1 3** Material: 36NiCrMo4
- 2** Material: Urelast 92SH
- 4** Nut
- 5** Split pin DIN 94

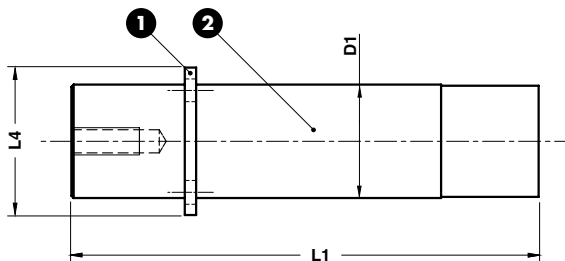
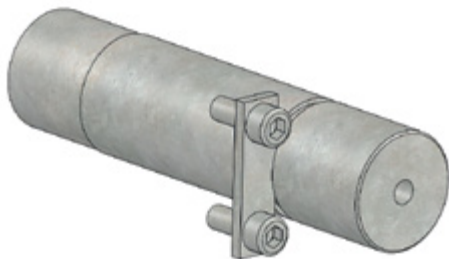
Only for replacement
Nur für Reparatur
Solo per riparazione



ORDER EXAMPLE	FCA CODE	L1=300
	TNRT_LAV_45	300

FCA CODE	D1
TNRT_LAV_35	35
TNRT_LAV_45	45

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes

- 1 Material: St37
- 2 Material: 36CrNiMo4

Screws not included

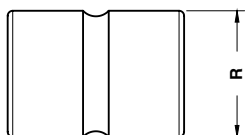


FCA CODE			
PRN_050206			

FCA CODE	L1	D1	L4
PRN_040172	172	40	65
PRN_050206	206	50	70

Standard FCA

SHOCK ABSORBER - HALTELEMENT - AMMORTIZZATORE



Notes

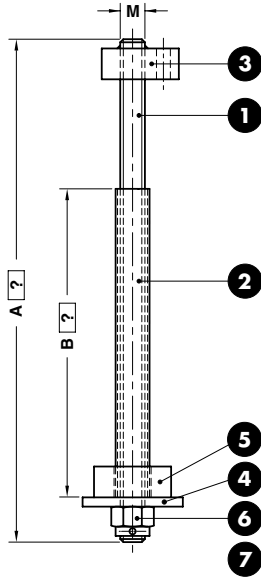
Material: Elastomer 92 SH



FCA CODE	
AMM_06380	

FCA CODE	R
AMM_05070	50
AMM_06380	63

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



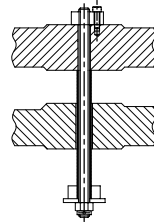
Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 Material: 36NiCrMo4
- 2 3 Material: Si37
- 4 Material: CK45
- 5 Elastomer 92SH
- 6 DIN 935 cl. 8.8
- 7 DIN 94



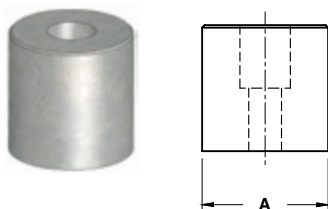
Application example



ORDER EXAMPLE	FCA CODE	A=100	B=60
	GRTI_M20AB	A100	B60

FCA CODE	M	Max load (kg)	FCA CODE	M	Max load (kg)
GRTI_M16AB	M16	250	GRTI_M24AB	M24	750
GRTI_M20AB	M20	450	GRTI_M30AB	M30	1250

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



Notes	
Material: CK45	
STOCK	
ORDER EXAMPLE	FCA CODE
	DST_090050
FCA CODE	A
DST_050050	50
DST_090050	90

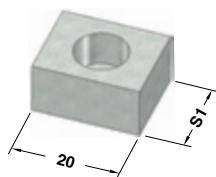
Standard FCA

CLAMP - BEFESTIGUNGSELEMENT - MORSETTO



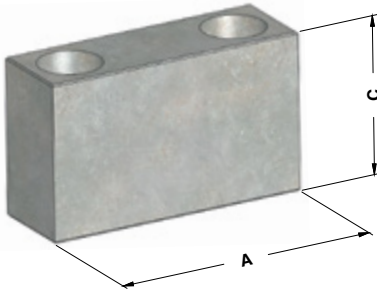
Notes	
Material: CK45	
STOCK	
ORDER EXAMPLE	FCA CODE
	MOR_025080100
FCA CODE	
MOR_025080100	

KEY - PASSFEDER - CHIAVETTA



Notes	
Material: CK45	
STOCK	
ORDER EXAMPLE	FCA CODE
	CH_MA_101620
FCA CODE	S1
CH_MA_081220	12
CH_MA_101620	16

STOP BLOCK - ANSCHLAG - ARRESTO



Notes

Material: CK45

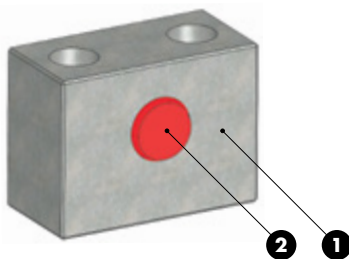


FCA CODE

ARR_752545

FCA CODE	A	C
ARR_502545	50	45
ARR_502565	50	65
ARR_752545	75	45
ARR_752565	75	65

SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA



Notes

1 Material: CK45

2 Material: Urelast 92SH
PU_EL_24 - STQ 40004



FCA CODE

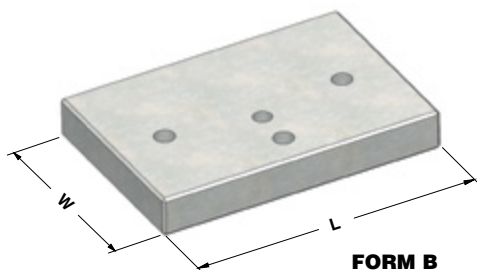
ARR_AMM_D24

FCA CODE
ARR_AMM_D24

WEAR PLATE STEEL - DECKLEISTE STAHL - PIASTRA GUIDA IN ACCIAIO



FORM A



FORM B

Notes

Material: 42CrMo4- **HRC:** 58÷62



FCA CODE
LA_130200_S

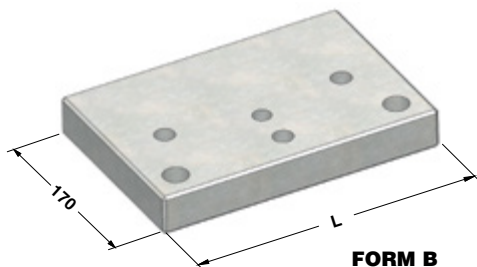
FCA CODE	W	L	FORM
LA_130160_S	130	160	A
LA_130200_S	130	200	A
LA_170250_S	170	250	B
LA_170320_S	170	320	B

Standard FCA

WEAR PLATE STEEL - DECKLEISTE STAHL - PIASTRA GUIDA IN ACCIAIO



FORM A



FORM B

Notes

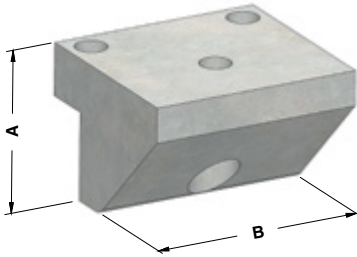
Material: 42CrMo4 - **HRC:** 58÷62



FCA CODE
LA_170200_C

FCA CODE	L	FORM
LA_170160_C	160	A
LA_170200_C	200	A
LA_170250_C	250	B
LA_170320_C	320	B

CAM DOWELL WEAR PLATE - ÜBERLAUFKEILE - CUNEO



STOCK



Notes

Material: 36CrNiMo4 - **HRC:** 54÷56

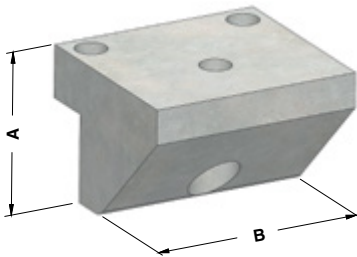


FCA CODE

P_CH_406050

FCA CODE	A	B
P_CH_406045	45	60
P_CH_406050	50	60
P_CH_406055	55	60
P_CH_406058	58	60
P_CH_408045	45	80
P_CH_408050	50	80
P_CH_408055	55	80
P_CH_408058	58	80

CAM DOWELL WEAR PLATE - ÜBERLAUFKEILE - CUNEO



STOCK



Notes

Material: 16MnCr5 - **HRC:** 58÷60

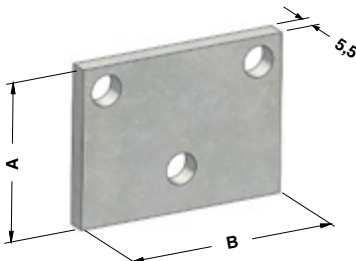


FCA CODE

P_CS_406050

FCA CODE	A	B
P_CS_406045	45	60
P_CS_406050	50	60
P_CS_406055	55	60
P_CS_406058	58	60
P_CS_408045	45	80
P_CS_408050	50	80
P_CS_408055	55	80
P_CS_408058	58	80

ADJUSTMENT PLATE - EINSTELLPLATTE - PIASTRINA DI REGOLAZIONE



STOCK



Notes

Material: Fe320

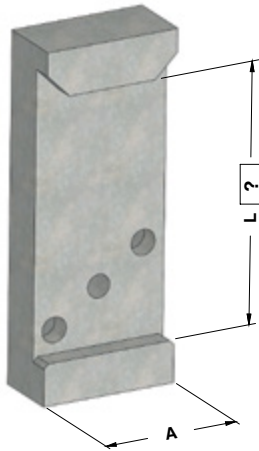


FCA CODE

SP_P_056050

FCA CODE	A	B
SP_P_056045	45	60
SP_P_056050	50	60
SP_P_056055	55	60
SP_P_056058	58	60
SP_P_058045	45	80
SP_P_058050	50	80
SP_P_058055	55	80
SP_P_058058	58	80

POSITIVE RETURN PLATE - ZWANGSRÜCKHOLER - GANCIO DI SICUREZZA



Notes

Material: CK45 - HRC: 52÷54

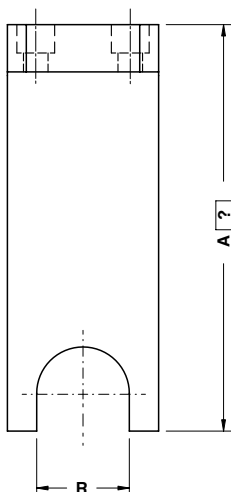


FCA CODE	L=80
GA_60	80

FCA CODE	A
GA_35	35
GA_60	60

Standard FCA

FORK PAWL - BEFESTIGUNGSPLATTE - FORCELLA NOTTOLINO



$150 \leq A \leq 220$

Notes

Material: St37

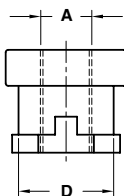


FCA CODE	A=?
FOR_49	160

FCA CODE	R
-----------------	----------

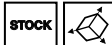
FOR_39	39
FOR_49	49

COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIAMENTO STAFFA



Notes

Material: CK45

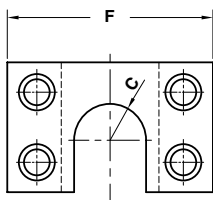


FCA CODE
NO_3530M12

FCA CODE	D	A
-----------------	----------	----------

NO_3530M10	25	M10x1,25
NO_3530M12	25	M12x1,25
NO_4740M16	37	M16x1,5
NO_4740M20	37	M20x1,5
NO_4740M27	37	M27x2
NO_5750M27	47	M27x2
NO_5750M36	47	M36x2

COUPLING PLATE - BEFESTIGUNGSPLETTE - STAFFA DI REAZIONE



Notes

Material: CK45

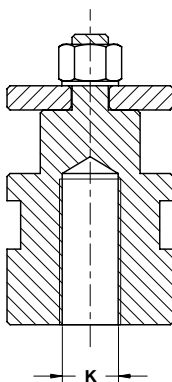


FCA CODE
FO_NO_4740

FCA CODE	F	C
FO_NO_3530	80	14
FO_NO_4740	100	20
FO_NO_5750	120	25

Standard FCA

UNION NUT - BEFESTIGUNGSELEMEN - DADO DI UNIONE



Notes

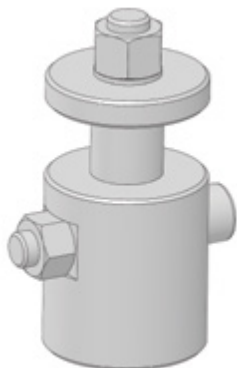
Material: CK45



FCA CODE
DU_M20_2B

FCA CODE	K
DU_M16_2A	M16x1,5
DU_M20_2B	M20x1,5
DU_M27_2C	M27x2

UNION NUT - BEFESTIGUNGSELEMEN - DADO DI UNIONE



Notes

Material: CK45



FCA CODE

DU_025045

FCA CODE

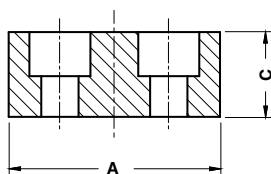
DU_025045

PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE



Notes

Material: 90MnCrV8 - **HRC:** 50±52

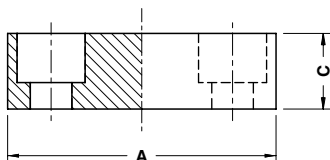


FCA CODE

RE_70SP20_C

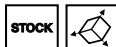
FCA CODE	A	C
RE_50SP15_C	50	15
RE_70SP20_C	70	18
RE_94SP20_C	94	18

PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE



Notes

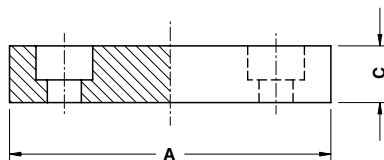
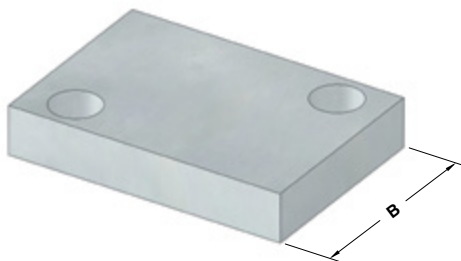
Material: 90MnCrV8 - **HRC:** 50÷52



	FCA CODE	
	RE_565620_Q	
FCA CODE	A	C
RE_404015_Q	40	15
RE_565620_Q	56	20
RE_717120_Q	71	20
RE_909020_Q	90	20
RE_14014020_Q	140	20

Standard FCA

PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE



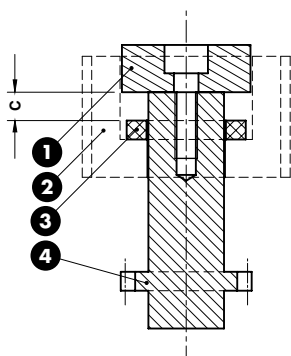
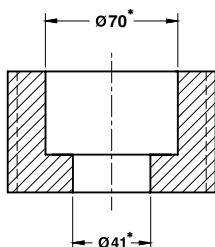
Notes

Material: 90MnCrV8 - **HRC:** 50÷52



	FCA CODE		
	RE_553012_R		
FCA CODE	A	B	C
RE_502512_R	50	25	12
RE_553012_R	55	30	12
RE_703515_R	70	35	15
RE_755015_R	75	50	15
RE_856015_R	85	60	15
RE_1008020_R	100	80	20
RE_11010020_R	110	100	20

TRESTLE GUIDE GROUP - FÜHRUNGSGRUPPE - GRUPPO GUIDA TRALICCIO



Notes

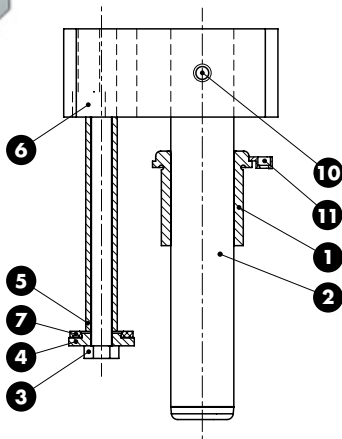
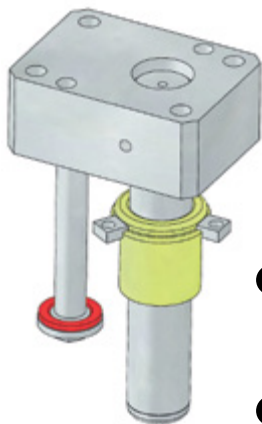
- 1 2 Material:** CK45
- 3 Material:** Urelast 92 SH
- 4 Material:** 16MnCr5 - **HRC:** 58÷60



* To be performed after assembling with trestle.
 Muss nach dem Zusammenbau mit der Schiene durchgeführt werden.
 Da eseguire dopo assemblaggio con traliccio.

	FCA CODE
	GRG_TRA_C25
FCA CODE	
C	
GRG_TRA_C15	15
GRG_TRA_C25	25
GRG_TRA_C50	50

GUIDE POST GROUP - FUHRUNGSSÄULE MIT FÜHRUNGSLAGER - GRUPPO COLONNA



Notes

- 1 Material: Bronze - HB>190
- 2 Material: 16MnCr5 - HRC: 58÷60
- 3 4 Material: CK45
- 5 Material: C12
- 6 Material: Si52
- 7 Material: Elastomer 90 SH
- 10 M12x30 DIN 913
- 11 Material: Si37

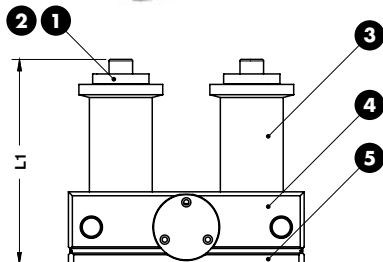
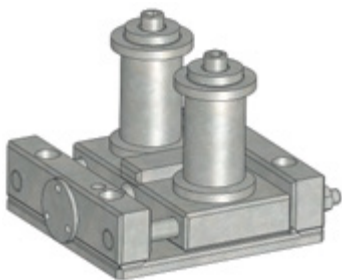


FCA CODE
GRC_AR_D50300

FCA CODE
GRC_AR_D50300

Standard FCA

COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDA NASTRO MOBILE



Notes

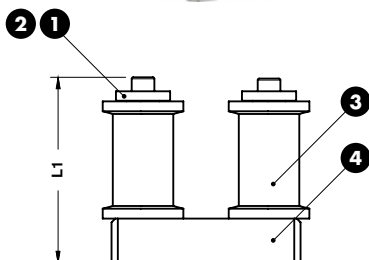
- 1 2 Material: CK45
- 3 Material: 16MnCr5 - HRC: 58÷60
- 4 5 Material: Si37



FCA CODE
GUN_M_73157

FCA CODE	L1	Stroke
GUN_M_55150	150	13 - 23
GUN_M_73157	157	48

COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDA NASTRO FISSO



Notes

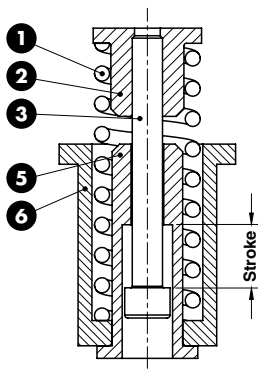
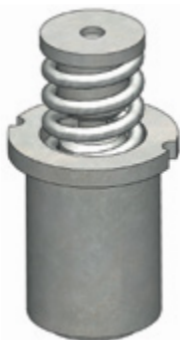
- 1 2 Material:** CK45
- 3 Material:** 16MnCr5 - HRC: 58÷60
- 4 Material:** Si37



ORDER EXAMPLE 	FCA CODE
	GUN_F_73159

FCA CODE	L1	Stroke
GUN_F_55141	141	13 - 23
GUN_F_73159	159	48

SRING GROUP - FEDERINHEIT - GRUPPO MOLLA



Notes

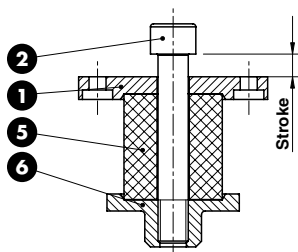
- 1** Spring
- 2 5 6 Material:** CK45
- 3** M12x150 DIN 912



ORDER EXAMPLE 	FCA CODE
	GR_MO_C50

FCA CODE	Stroke
GR_MO_C25	25
GR_MO_C50	50

SRING GROUP - FEDEREINHEIT - GRUPPO MOLLA



Notes

- 1 **Material:** CK45
- 2 M16x100 DIN 912
- 5 **Material:** Elastomer 92 SH
- 6 **Material:** 36NiCrMo4

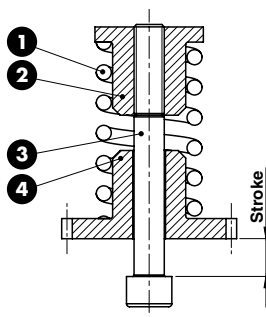


ORDER EXAMPLE	FCA CODE
	GR_MTR_C12

FCA CODE	Stroke
GR_MTR_C12	12

Standard FCA

SRING GROUP - FEDEREINHEIT - GRUPPO MOLLA



Notes

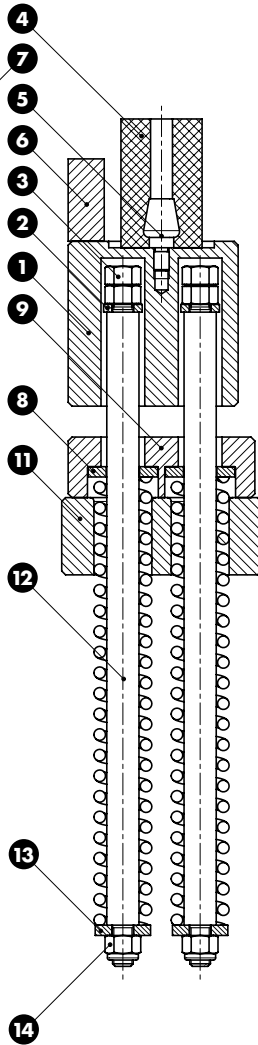
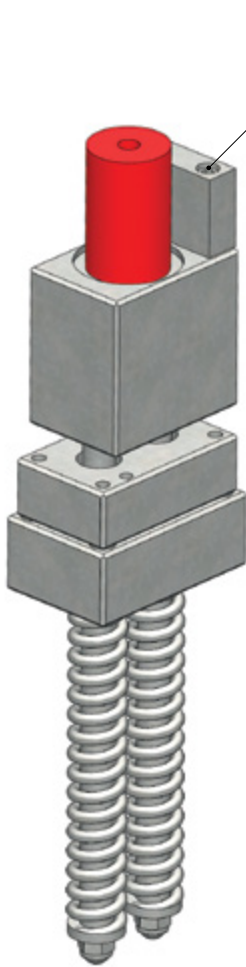
- 1 Spring
- 2 4 **Material:** CK45
- 3 M12x150 DIN 912



ORDER EXAMPLE	FCA CODE
	GR_MTR_C15

FCA CODE	Stroke
GR_MTR_C15	15


SRING GROUP - FEDEREINHEIT - GRUPPO MOLLA



Notes

- 1 9 11 Material:** St37
- 2 8 13 Material:** CK45
- 3** M16 DIN 934
- 4 5** STQ.40006
- 6 12 Material:** 36NiCrMo4
- 7** M10x60 DIN912
- 14** M16 DIN 6924



	FCA CODE
	GR_MTR_C120
FCA CODE	Stroke
GR_MTR_C120	120

ROLLER - ROLLE - ROTELLA



Notes

Material: Steel

STOCK



FCA CODE

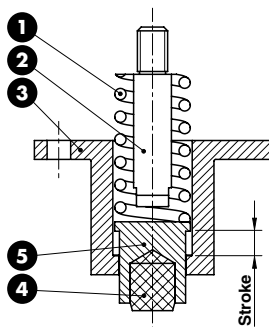
ROT_048015

FCA CODE

ROT_048015

Standard FCA

SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA



Notes

- 1 Spring
- 2 3 **Material:** 16MnCr5
- 4 **Material:** Urelast 90 SH
- 5 **Material:** 36CrNiMo4

STOCK



FCA CODE

GR_RIM_TRA1

FCA CODE

Stroke

GR_RIM_TRA1

13

STQ 80008

OMCR

BALL CASTER - KUGELROLLENSYSTEM - SFERA PORTANTE



Notes

Material: Steel

STOCK



FCA CODE

SF_KU30

FCA CODE

SF_KU30

STQ 80009

OMCR

STRIPPER FOR BLANKING DIES - ABSTREIFER FÜR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



Notes

Material: Elastomer 70SH

STOCK



FCA CODE

ES_EL_027306

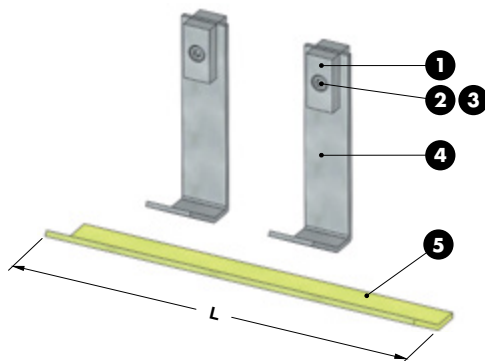
FCA CODE

ES_EL_027306

STQ 80010

OMCR

COVERING BELT - ABDECKUNG - GRUPPO RIPARO CINGHIA



STOCK



Notes

1 4 Material: St37

5 Material: Ms58

2 3 Ø10 DIN 127 - M10x20 DIN 912



FCA CODE

GRRI_CI_440

FCA CODE

L

GRRI_CI_420

420

GRRI_CI_440

440

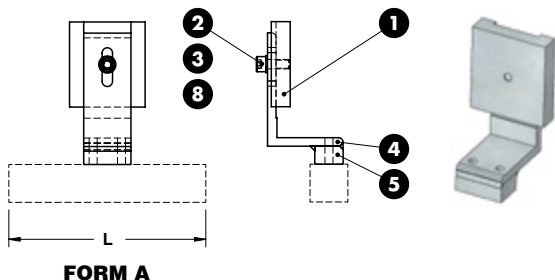
GRRI_CI_485

485

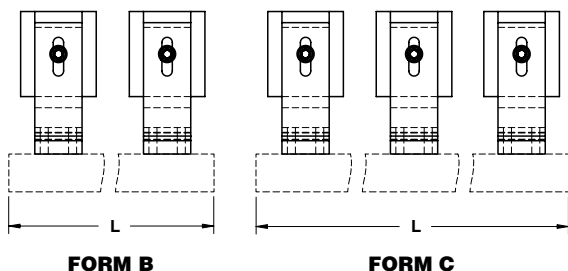
GRRI_CI_620

620

SUPPORT - HALTERUNG - GRUPPO SUPPORTO PER PISTA MAGNETICA



FORM A



FORM B

FORM C

Notes

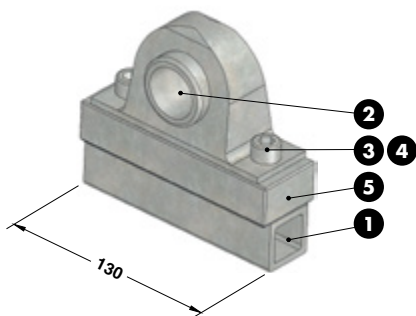
- 1 4 5 Material: Si37
- 2 Ø10 DIN 127
- 3 M10x25 DIN 912
- 8 Ø10 DIN 125



ORDER EXAMPLE	FCA CODE	
	GRSU_MG_465	
FCA CODE	L	FORM
GRSU_MG_310	310	A
GRSU_MG_465	465	B
GRSU_MG_600	600	B
GRSU_MG_755	755	B
GRSU_MG_800	800	C

Standard FCA

SUPPORT - HALTERUNG - GRUPPO SEAL MASTER



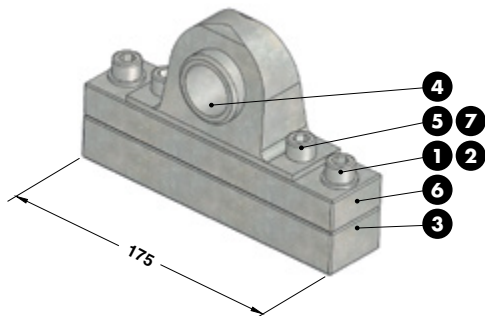
Notes

- 1 5 Material: Si37
- 2 Material: PB30
- 3 M10x20 DIN 912
- 4 SCHNORR Ø10



ORDER EXAMPLE	FCA CODE	
	GR_SMF_040130	
FCA CODE		
GR_SMF_040130		

SUPPORT - HALTERUNG - GRUPPO SEAL MASTER



Notes

- 1 M10x45 DIN 912
- 2 Ø10 DIN 125
- 3 6 Material: Si37
- 4 Material: PB30
- 5 M10x20 DIN 912
- 7 SCHNORR Ø10



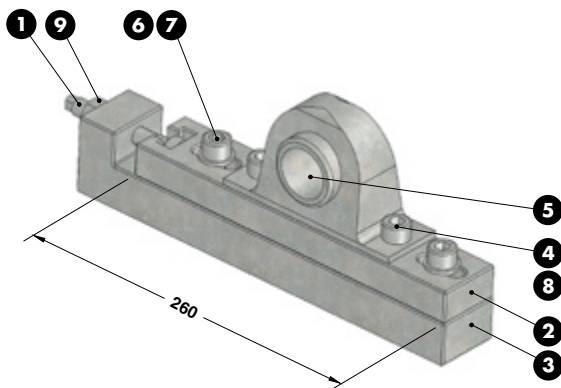
FCA CODE

GR_SMF_040175

FCA CODE

GR_SMF_040175

SUPPORT - HALTERUNG - GRUPPO SEAL MASTER



Notes

- 1 Material: 16MnCr5
- 2 3 Material: Si37
- 4 M10x20 DIN 912
- 5 Material: PB30
- 6 M10x45 DIN 912
- 7 Ø10 DIN 125
- 8 SCHNORR Ø10
- 9 M10 DIN 934



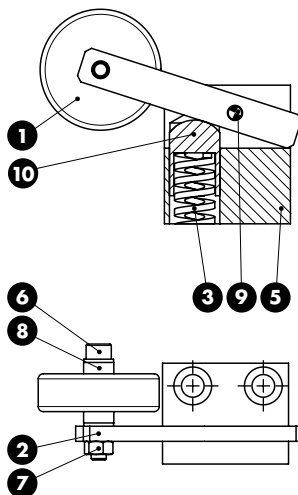
FCA CODE

GR_SMR_040260

FCA CODE

GR_SMR_040260

ROLLER STOCK LIFTER - FEDERENDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



Notes

- 1 Material:** Steel
ROT_048015 - STQ 80006
- 2 5 Material:** Si37
- 3** Spring - load = 2 kg
- 6** M6x40 DIN 912
- 7** M6 DIN 934
- 8** DIN 127
- 9** 6x30 DIN 6325
- 10 Material:** 16MnCr5



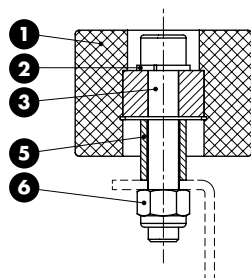
FCA CODE
GRRU_SN_040080

FCA CODE

GRRU_SN_040080

Standard FCA

ROLLER - ROLLE - GRUPPO RULLO DI EVACUAZIONE



Notes

- 1 Material:** Nylon
- 2** DIN 127
- 3** M12x70 DIN 912
- 5 Material:** CK45
- 6** M12 DIN 6924

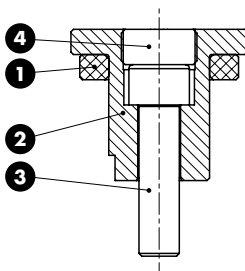


FCA CODE
GRRU_EV_070050

FCA CODE

GRRU_EV_070050

PAD RETAINER - ZUGBOLZENSATZ - GRUPPO DI ARRESTO



Notes

- 1 **Material:** Elastomer 90SH
- 3 M16x60 DIN 912
- 4 **Material:** CK45
- 2 **Material:** 36CrNiMo4



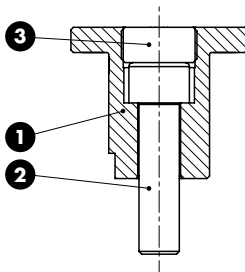
FCA CODE

GR_AR_070100

FCA CODE

GR_AR_070100

PAD RETAINER - ZUGBOLZENSATZ - GRUPPO DI ARRESTO



Notes

- 1 **Material:** 36CrNiMo4
- 2 M16x60 DIN 912
- 3 **Material:** CK45



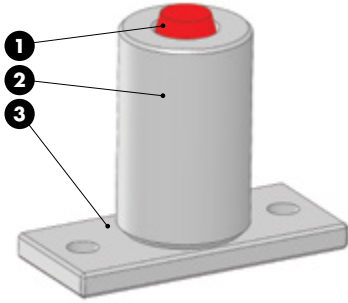
FCA CODE

GR_SI_070100

FCA CODE

GR_SI_070100

LIFTER STOP - ANSCHLAG HEBER - GRUPPO ARRESTO TRALICCIO



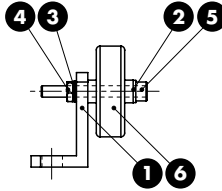
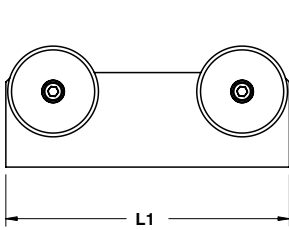
- Notes**
- 1 **Material:** Elastomer 90SH
 - 2 **Material:** C40
 - 3 **Material:** Fe320

STOCK

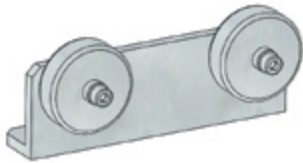
	FCA CODE
	GRA_TRA1
FCA CODE	
GRA_TRA1	

Standard FCA

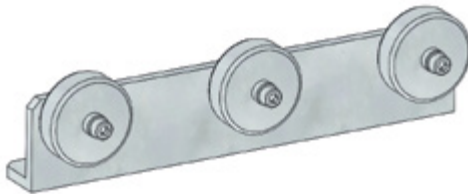
ROLLER GROUP - FÖRDERROLLE - GRUPPO RULLINI



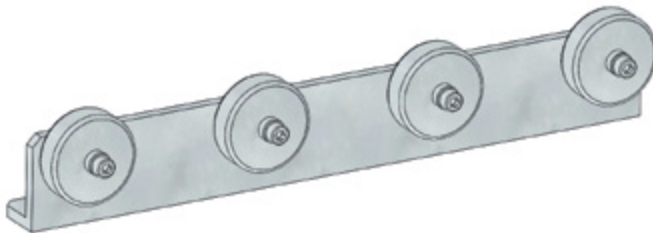
- Notes**
- 1** Material: St52
 - 2 3** Washer for M6
 - 4** Nut for M6
 - 5** M6x50 DIN 912
 - 6** Material: Steel - STQ80006



FORM A



FORM B



FORM C

	FCA CODE
	SP_R_250

FCA CODE	L1	FORM
SP_R_150	150	A
SP_R_250	250	B
SP_R_350	350	C



OMCR

OPERATIONAL MANAGEMENT CENTER







OMCR®

STANDARD DIE COMPONENTS




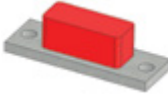

















STANDARD



WDX3	WDX3-60-0165	WDX3-70 0101÷103	WDX3-70-0201	WDX3-70-0402
				
	Stripper for blanking dies Abstreifer für platinenschnitte Estrattore Per Stampi	Stock Keeper Plate Platte Piastra	Shoulder screw Stift Perno	Stock Lifter Heber Sollevatore
	237	237	238	238
WDX3-70 0501÷0504	WDX3-70 0505÷0506	WDX3-70-2001-A	WDX3-70-2002-A	WDX3-70-2101-A
				
Guide bar Führung Guida	Guide bar Führung Guida	Coil guide roller Bandführung Guidanastro	Coil guide roller Bandführung Guidanastro	Coil guide roller Bandführung Guidanastro
239	239	240	240	240
WDX3-80 2401÷2402	WDX4	WDX4-70 0201÷0202	WDX4-70 0301÷0401	WDX4-70 0501÷0502
				
Visual locator setting punch Endkontrollstempel Punzone di visualizzazione		Air relief tubing Tube Tubo sfogo aria	Locating cone Kegeldistanz Cono di centraggio	Distance Plate Abstimmzscheibe Distanziale
241		241	242	242
WDX4-70-0801	WDX4-70 12070÷12150	WDX4-70-1301	WDX5	WDX5-60-3301
				
Locating Cone Zentrierbolzen Centraggio	Upper Distance Block Oberer Abstandblock Distanziale	Lower Distance Block Underter Abstandblock Distanziale		Dual Hinge Scharniernut Cerniera femmina
243	243	243		244

WDX5-60-3302  Hinge Scharnierfeder Cerniera maschio 244	WDX5-60-3303  Hinge pin Scharnierstift Perno 244	WDX5-60-3301-A  Slide bolt with hinge Bolzen mit Scharnier Perno con cerniera 245	WDX5-60-3401  Hinge Scharnierfeder Cerniera maschio 245	WDX5-60-3420  Slide bolt Bolzen Perno 245	
WDX5-60-3401-A  Slide bolt with hinge Bolzen mit Scharnier Perno con cerniera 246	WDX5-60-3704  Hinge bracket Bügel Staffa 246	WDX5-61-0901  Matrix retainer Haltestück Ritegno per matrice 246	WDX7		WDX7-60 1101÷1102  Positive return wear plate Platte Piastra di reazione 247
WDX7-60 1701÷1704  Coupling plate Befestigungsplatte Staffa di reazione 247	WDX7-60 1802÷1807  Coupling nut Kupplungsmutter Aggancio Staffa 248	WDX7-60-1901  Holdback Pin Handgriff Impugnatura 248	WDX7-65 01075200÷01150450  Wear plate steel Deckleiste stahl Piastra Guida in acciaio 249	WDX7-65 03165150÷03165300  "V" driver Prismenführung Guida a "V" 250	
WDX7-65 05111÷05243-A  "V" driver with positive return Prismenführung mit Zwangsrückholer Guida a "V" con gancio di ritorno 251	WDX7-65 09100125÷09160170  Cam dwell wear plate Überlaufkeile Cuneo 252	WDX7-65 09100125÷09160170  Cam dwell wear plate Überlaufkeile Cuneo 253	WDX7-65-0445  Positive return Zwangsrückholer Gancio 254	WDX7-65- 11175100÷11175200  Cam slide cover plate Deckleiste für Schieber Supporto per camme 254	

WDX7-70-1001-A	WDX7-70-1536	WDX7-70 16080÷16130	WDX7-70 18050÷18100	WDX7-70 19090÷19140
				
<p>Upper cam safety screw Sicherheitschraube für oberschieber Tirante di sicurezza</p>	<p>Slide stop block Schieberranschlag Arresto slitta</p>	<p>Stop block Anschlag Blocchetto di arresto</p>	<p>Cam buffer Anschlag Arresto</p>	<p>Buffer support Dämpferhalterung Supporto ammortizzatore</p>
<p>255</p>	<p>255</p>	<p>256</p>	<p>256</p>	<p>257</p>
WDX13	WDX13-60 08025÷08125-A	WDX13-60 08025÷08125	WDX13-60-1001	WDX13-65 01050100X÷01160315X
				
	<p>Guide bush NAAMS Führungsbuchse NAAMS Boccola autolubrificante NAAMS</p>	<p>Guide bush NAAMS Führungsbuchse NAAMS Boccola autolubrificante NAAMS</p>	<p>Toe clamp Haltestück Ritegno</p>	<p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p>
	<p>257</p>	<p>258</p>	<p>258</p>	<p>259</p>
WDX13-65 01050100Y÷01160315Y	WDX13-65 04040÷04152	WDX13-65 04040÷04152-1	WDX13-65 10080315÷10080400-A	WDX13-65 10080315÷10080400
				
<p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p>	<p>Stop block Abstandsblock Distanziale</p>	<p>Stop block Abstandsblock Distanziale</p>	<p>Guide post Führungssäule Colonna guida</p>	<p>Guide post Führungssäule Colonna guida</p>
<p>260</p>	<p>261</p>	<p>261</p>	<p>262</p>	<p>262</p>
WDX13-65 11080315÷11080400	WDX13-65 12125400÷12125500-A	WDX13-65 12125400÷12125500	WDX13-65 13125400÷13125500	WDX13-65 20025140÷20100500-A
				
<p>Guide post Führungssäule Colonna guida</p>	<p>Guide post Führungssäule Colonna guida</p>	<p>Guide post Führungssäule Colonna guida</p>	<p>Guide post Führungssäule Colonna guida</p>	<p>Guide post NAAMS Führungssäule NAAMS Colonna guida NAAMS</p>
<p>263</p>	<p>263</p>	<p>264</p>	<p>264</p>	<p>265</p>

WDX13-65 20025140÷20100500	WDX13-65 22025140÷22100500	<h2 style="margin: 0;">WDX14</h2>			WDX14-60 0125÷0163	WDX14-60 025501-A
						
Guide post Führungssäule Colonna guida	Guide post NAAMS Führungssäule NAAMS Colonna guida NAAMS	Pad retainer plate Platte Piastra	Pad retainer pin Steckbolzen Perno di arresto			
266	267	268	268			
WDX14-60 025502-A	WDX14-60-0280	WDX14-60 0325÷0363-A	WDX14-60-0406	WDX14-60 0425÷0463-A		
						
Pad retainer pin Steckbolzen Perno di arresto	Safety pin Stift Perno di sicurezza	Pad retainer pin Steckbolzen Perno di arresto	Securing disc Scheibe Rondella di sicurezza	Pad retainer pin Steckbolzen Perno di arresto		
269	269	270	270	271		
WDX14-60 0516÷0530	WDX14-60 0616÷0620	WDX14-60 0901÷0904	WDX14-60 1001÷1004	WDX14-60 1006÷1009		
						
Retainer bolt Zugbolzensatz Gruppo tirante	Retainer bolt Zugbolzensatz Gruppo tirante	Buffer Stoßdämpfer Ammortizzatore	Washer retainer Scheibe Rondella	Threaded Block Dübel Tassello		
272	273	274	274	274		
WDX14-60 1310÷1320	WDX14-60 1425÷1463-A	WDX14-60 1525÷1563-A	WDX14-60 1701÷1703	WDX14-62-0175		
						
Washer retainer Scheibe Rondella	Pad retainer pin Steckbolzen Perno di arresto	Pad retainer pin Steckbolzen Perno di arresto	Shock absorber Halteelement Ammortizzatore	Locating cone Kegeldistanz Cono di centraggio		
275	275	276	276	277		

<p>WDX14-65 1110÷1116</p>  <p>Retainer bolt Zugbolzensatz Gruppo tirante</p> <p>277</p>	<p>WDX14-65 0150180÷015250</p>  <p>Retainer bolt Zugbolzensatz Gruppo tirante</p> <p>278</p>	<p>WDX14-65 0263200÷0263465</p>  <p>Retainer bolt Zugbolzensatz Gruppo tirante</p> <p>279</p>	<p>WDX14-65 0380250÷0380400</p>  <p>Retainer bolt Zugbolzensatz Gruppo tirante</p> <p>280</p>	<p>WDX14-65 04050180÷04080400</p>  <p>Guide post Führungssäule Colonna guida</p> <p>281</p>	
<p>WDX14-65 05110÷05150</p>  <p>Washer Scheibe Rondella</p> <p>282</p>	<p>WDX14-65 05050÷05080</p>  <p>Spacer Distanzstück Distanziale</p> <p>282</p>	<p>WDX14-65 06110÷06150</p>  <p>Retainer bolt block Aufnahmebolzen block Tassello di tenuta</p> <p>282</p>	<p>WDX14-65 07110÷07150</p>  <p>Buffer Stossdämpfer Ammortizzatore</p> <p>283</p>	<p>WDX14-65 0820350÷0830585</p>  <p>Retainer bolt assembly Aufnahmebolzen zusammenbau Gruppo tirante</p> <p>283</p>	
<p>WDX14-70 194032÷1980125</p>  <p>Elastomer spring Elastomerfeder Molla in elastomero</p> <p>284</p>	<h2>WDX15</h2>		<p>WDX15-70 0101</p>  <p>Bush Buchse Boccola</p> <p>284</p>	<p>WDX15-70-0201</p>  <p>Washer Scheibe Rondella</p> <p>285</p>	<p>WDX15-70-0301</p>  <p>Shim Spannschlitz Spessore</p> <p>285</p>
<p>WDX15-70-0401</p>  <p>Locating Pin Zentrierbolzen Centraggio</p> <p>285</p>	<h2>WDX16</h2>		<p>WDX16-60 01065÷01250</p>  <p>Gage Hardened Einweiser Gehärtet Riferimento indurito</p> <p>286</p>	<p>WDX16-70 0202÷0224</p>  <p>Side Guide Führung Guida foglio</p> <p>286</p>	<p>WDX16-70 0301R÷0301L</p>  <p>Support for sensor Lagekontrolle für platten Supporto sensore</p> <p>287</p>

WDX16-70 0701R÷0701L	WDX16-70 0901R÷0901L	WDX17		WDX17-70-0501	WDX17-60 0236175÷0245360
					
Support for sensor Lagekontrolle für platinen Supporto sensore	Support for sensor Lagekontrolle für platinen Supporto sensore			Clamp Haltestück Staffa	Air Pin Druckbolzen Candela
287	288			288	289
WDX17-60 0345175÷0345360	WDX17-70 0736175÷0745360	WDX17-70 0845175÷0845360	WDX19		WDX19-70 0701÷0703
					
Air Pin Druckbolzen Candela	Air Pin Druckbolzen Candela	Air Pin Druckbolzen Candela			Bracket Bügel Staffa
289	290	290			291
WDX20		WDX20-65 0310÷0325	WDX20-65-0601	WDX20-66 0110-A÷0119-A	WDX20-66 02110÷02119
					
		Trademark stamp Buchstabenstempel Punzone marchio	Visual locator punch Endkontrollstempel Punzone di visualizzazione	Retainer for stamps Halteplatte Portatimbri	Retainer for stamps Halteplatte Portatimbri
		291	291	292	292
WDX20-66 02210÷02219	WDX20-66 03120÷03220-A	WDX20-66 03115÷03112	WDX20-66 03205÷03208	WDX20-70-0101	
					
Backing plate Druckplatte Distanziale	Retainer for stamps Halteplatte Portatimbri	Retainer for stamps Halteplatte Portatimbri	Backing plate Druckplatte Distanziale		
292	293	293	293		
					Visual locator punch Endkontrollstempel Punzone di visualizzazione
				294	

WDX20-70-0250	WDX20-70 0200÷0256	WDX20-70 0330÷0372	WDX20-70 0430÷0472	<h2 style="text-align: center;">WDX22</h2>
				
<p>Stamps set Stempelsatz Set punzoni</p>	<p>Stamps Buchstabenstempel Punzone marchio</p>	<p>Retainer for stamps Halteplatte Portatimbri</p>	<p>Backing plate Druckplatte Distanziale</p>	
<p style="text-align: center;">294</p>	<p style="text-align: center;">295</p>	<p style="text-align: center;">296</p>	<p style="text-align: center;">296</p>	
WDX22-60 0135÷0180	WDX22-70-0501	<h2 style="text-align: center;">WDX30</h2>	WDX30-60 0125125÷0130180	WDX30-60 02080÷02125
				
<p>Lifting pin Tragbolzen mit fallringsicherung Perno di sollevamento</p>	<p>Lifting bracket Tragzapfen Staffa di sollevamento</p>		<p>Standard key Passfeder Chiavetta</p>	<p>Standard key Passfeder Chiavetta</p>
<p style="text-align: center;">297</p>	<p style="text-align: center;">298</p>	<p style="text-align: center;">298</p>	<p style="text-align: center;">299</p>	
<h2 style="text-align: center;">WDX35</h2>	WDX35-70 1401÷1502	WDX35-70 1611÷1662		
				
<p>Air coupling bracket Luftanschlussbock Supporto innesti rapidi</p>	<p>Color mark air connection Farbige Scheibe Coperchio colorato</p>			
<p style="text-align: center;">299</p>	<p style="text-align: center;">299</p>			

STRIPPER FOR BLANKING DIES - ABSTREIFER FUR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



Notes

Material: Urelast 90 SH

STOCK



FORD CODE

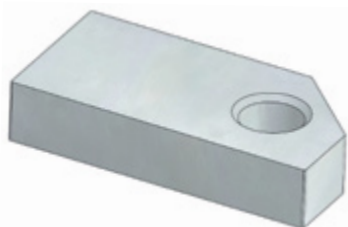
WDX3-60-0165

FORD CODE

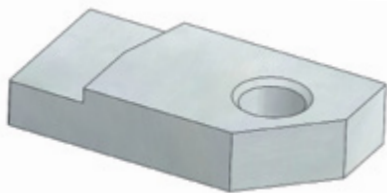
WDX3-60-0165

Standard Ford

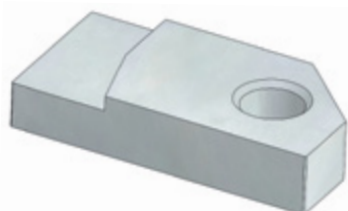
STOCK KEEPER PLATE - PLATTE - PIASTRA



WDX3-70-0101



WDX3-70-0102



WDX3-70-0103

Notes

Material: Si37

STOCK

*Stanzwerkzeuge
Stampi di tranciatura

**Folgeverbundwerkzeuge
Stampi progressivi



FORD CODE

WDX3-70-0102

FORD CODE

Using

WDX3-70-0101

Blank dies*

WDX3-70-0102

Progressive dies**

WDX3-70-0103

Progressive dies**

SHOULDER SCREW - STIFT - PERNO



Notes

Material: CK45

STOCK



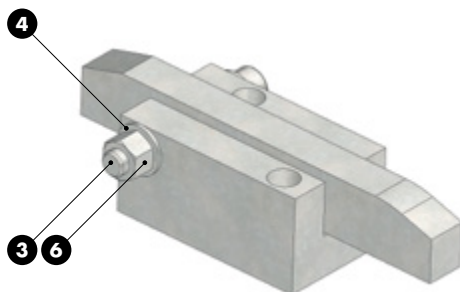
FORD CODE

WDX3-70-0201

FORD CODE

WDX3-70-0201

STOCK LIFTER - HEBER - SOLLEVATORE

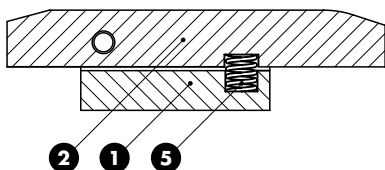


Notes

- 1 **Material:** CK45
- 2 **Material:** CK45 - HRC: 58÷60
- 3 Screw M12x80 DIN EN ISO 4762
- 4 Washer DIN 433-1
- 5 Spring WDX14-70-0412 LG.30
- 6 Nut M12 DIN 934



STOCK



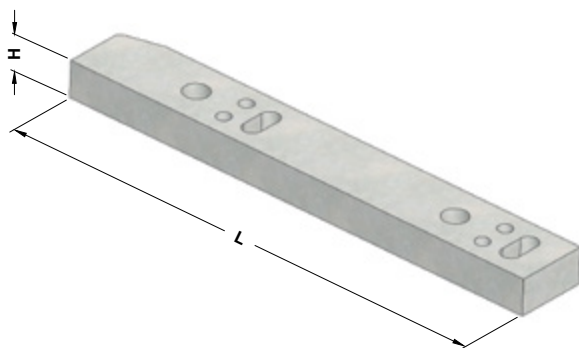
FORD CODE

WDX3-70-0402-A

FORD CODE

WDX3-70-0402-A

GUIDE BAR - FÜHRUNG - GUIDA



Notes

Material: 36CrNiMo4
HRC: 56÷58

STOCK

Standard Ford

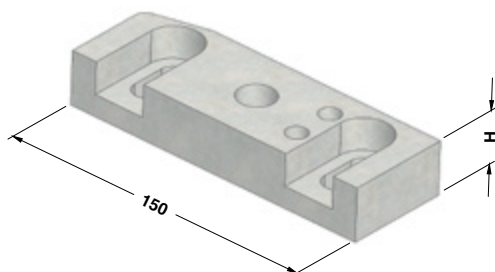


FORD CODE
WDX3-70-0502

FORD CODE	H	L
WDX3-70-0501	25	350
WDX3-70-0502*	50	350
WDX3-70-0503	25	250
WDX3-70-0504*	50	250

*Use this guide bar only when spring loaded roller frame is used
Diese Führungsschienen nur verwenden, wenn federbandführungen verwendet werden
Utilizzare queste barre di guida solo quando sono usati guidanastro a molla

GUIDE BAR - FÜHRUNG - GUIDA



Notes

Material: 36CrNiMo4
HRC: 56÷58

STOCK

*Use this guide bar only when spring loaded roller frame is used
Diese Führungsschienen nur verwenden, wenn federbandführungen verwendet werden
Utilizzare questa barra di guida solo quando è usata una guidanastro a molla

FORM

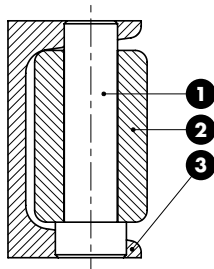
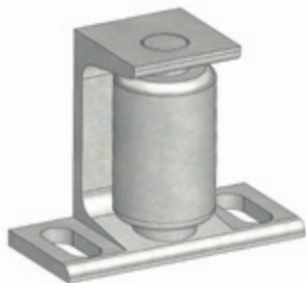
R: As shown in drawing / Gemäß zeichnung / Come a disegno
L: Opposite to drawing / Spiegelverkehrt / Opposto al disegno
N: No counter bore / Ohne Langloch / Senza asole



FORD CODE	FORM
WDX3-70-0506	R

FORD CODE	H
WDX3-70-0505 + FORM	25
WDX3-70-0506 + FORM*	50

COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO



Notes

2 Material: Steel - HRC: 58÷60

1 3 Material: Steel



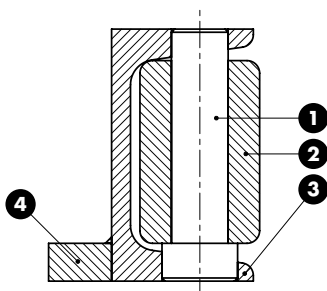
FORD CODE

WDX3-70-2001-A

FORD CODE

WDX3-70-2001-A

COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO



Notes

2 Material: Steel - HRC: 58÷60

1 3 4 Material: Steel



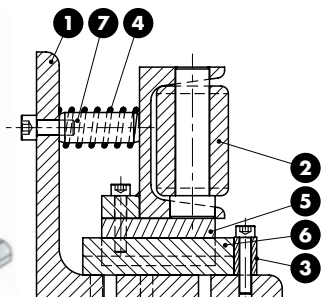
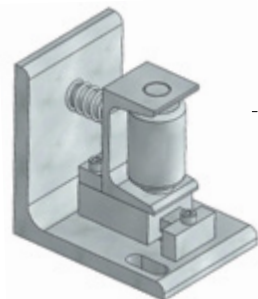
FORD CODE

WDX3-70-2002-A

FORD CODE

WDX3-70-2002-A

COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO MOBILE



Notes

2 WDX3-70-2202-A

1 3 4 Material: Steel

5 6 7



FORD CODE

WDX3-70-2101-A

FORD CODE

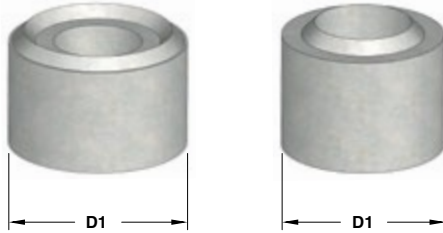
WDX3-70-2101-A

VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE

Notes

Material: X155CrVMo
HRC: 58÷60

STOCK



FORD CODE	
WDX3-80-2402	

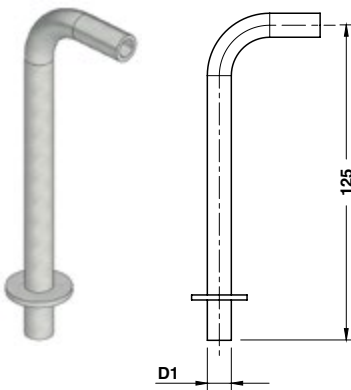
FORD CODE	D1
WDX3-80-2401	30
WDX3-80-2402	25

AIR RELIEF TUBING - TUBE - TUBO SFOGO ARIA

Notes

Material: Steel

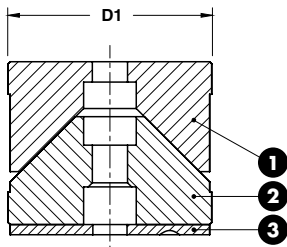
STOCK



FORD CODE	
WDX4-70-0201-S	

FORD CODE	D1
WDX4-70-0201-S	9.52
WDX4-70-0202-S	6.35

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



Notes

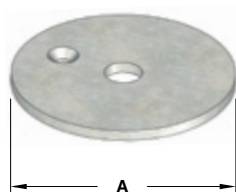
1 2 Material: 16MnCr5
HRC: 58÷60

3 Material: Si37



	FORD CODE
	WDX4-70-0401-A
FORD CODE	D1
WDX4-70-0301-A	100
WDX4-70-0401-A	75

DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE



Notes

Material: Si37



	FORD CODE
	WDX4-70-0502

FORD CODE	A	For cone assembly
WDX4-70-0501	73	WDX4-70-0401-A
WDX4-70-0502	98	WDX4-70-0301-A

LOCATING CONE - ZENTRIERBOLZEN - CENTRAGGIO



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



FORD CODE

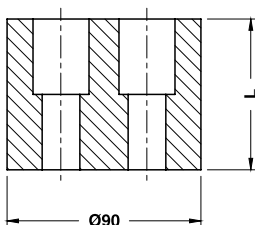
WDX4-70-0801

FORD CODE

WDX4-70-0801

Standard Ford

UPPER DISTANCE BLOCK - OBERER ABSTANDBLOCK - DISTANZIALE



STOCK

Notes

Material: CK45



FORD CODE

WDX4-70-12070

FORD CODE

L Screw DIN 912

WDX4-70-12070 70 M16X60

WDX4-70-12120 120 M16X100

WDX4-70-12145 145 M16X100

LOWER DISTANCE BLOCK - UNTERER ABSTANDBLOCK - DISTANZIALE



Notes

Material: CK45



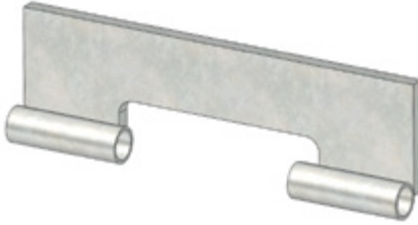
FORD CODE

WDX4-70-1301

FORD CODE

WDX4-70-1301

DUAL HINGE - SCHARNIERNUT - CERNIERA FEMMINA



Notes

Material: St37

STOCK



FORD CODE

WDX5-60-3301

FORD CODE

WDX5-60-3301

HINGE - SCHARNIERFEDER - CERNIERA MASCHIO



Notes

Material: St37

STOCK



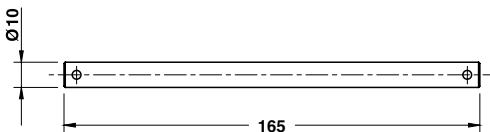
FORD CODE

WDX5-60-3302

FORD CODE

WDX5-60-3302

HINGE PIN - SCHARNIERSTIFT - PERNO



Notes

- 1** **Material:** CK45
- 2** Split Pin, DIN EN ISO 1234 (x2)

STOCK



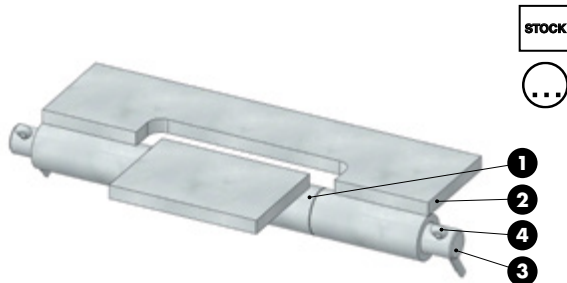
FORD CODE

WDX5-60-3303

FORD CODE

WDX5-60-3303

SLIDE BOLT WITH HINGE - BOLZEN MIT SCHARNIER - PERNO CON CERNIERA



Notes	
1	WDX5-60-3301
2	WDX5-60-3302
3	WDX5-60-3303
4	Split Pin, DIN EN ISO 1234 (x2)
ORDER EXAMPLE	FORD CODE
	WDX5-60-3301-A
FORD CODE	
WDX5-60-3301-A	

Standard Ford

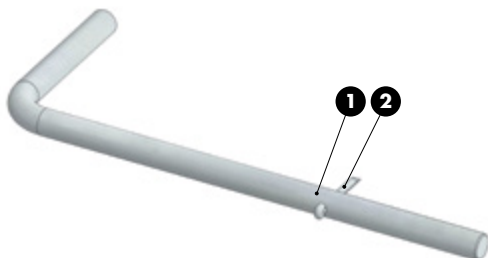
HINGE - SCHARNIERFEDER - CERNIERA



Notes	
Material: St37	
ORDER EXAMPLE	FORD CODE
	WDX5-60-3401
FORD CODE	
WDX5-60-3401	

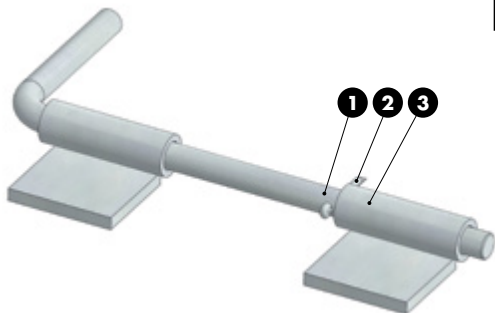
STOCK

SLIDE BOLT - BOLZEN - PERNO



Notes	
1	Material: St37
2	Split Pin, DIN EN ISO 1234
STOCK	
ORDER EXAMPLE	FORD CODE
	WDX5-60-3420
FORD CODE	
WDX5-60-3420	

SLIDE BOLT WITH HINGE - BOLZEN MIT SCHARNIER - PERNO CON CERNIERA



STOCK



Notes	
1	WDX5-60-3420
2	Split Pin, DIN EN ISO 1234
3	WDX5-60-3401



FORD CODE
WDX5-60-3401-A

FORD CODE
WDX5-60-3401-A

HINGE BRACKET - BÜGEL - STAFFA



Notes	
Material:	Si37

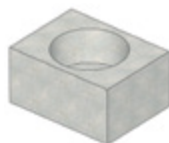
STOCK



FORD CODE
WDX5-60-3704

FORD CODE
WDX5-60-3704

MATRIX RETAINER - HALTESTÜCK - RITEGNO PER MATRICE



Notes	
Material:	CK45

STOCK



FORD CODE
WDX5-61-0901

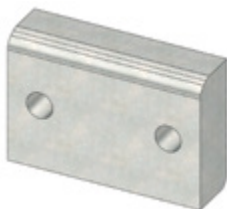
FORD CODE
WDX5-61-0901

POSITIVE RETURN WEAR PLATE - PLATTE - PIASTRA DI REAZIONE

Notes

Material: CK45 - **HRC:** 58±60

STOCK



WDX7-60-1101



WDX7-60-1102



FORD CODE
WDX7-60-1102

FORD CODE
WDX7-60-1101
WDX7-60-1102

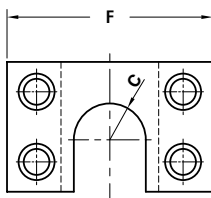
Standard Ford

COUPLING PLATE - BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE

Notes

Material: CK45

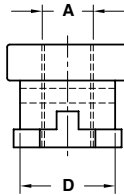
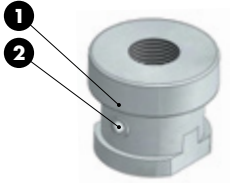
STOCK



FORD CODE
WDX7-60-1702

FORD CODE	F	C
WDX7-60-1701	80	14
WDX7-60-1702	100	20
WDX7-60-1703	120	25
WDX7-60-1704	150	33

COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA



Notes

- 1 **Material:** CK45
- 2 Spring-type straight pin
DIN EN ISO 8752

STOCK



FORD CODE
WDX7-60-1803

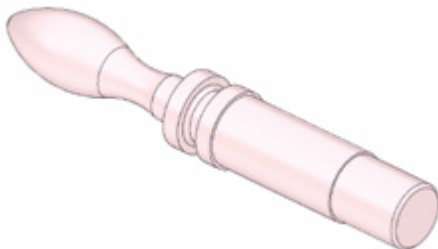
FORD CODE	A	D
WDX7-60-1802	M12x1.25	25
WDX7-60-1803	M16x1.5	37
WDX7-60-1804	M20x1.5	37
WDX7-60-1808	M27x2	37
WDX7-60-1806	M36x2	47
WDX7-60-1807	M42x2	59

HOLDBACK PIN - HANDGRIFF - IMPUGNATURA

Notes

Material: Teflon

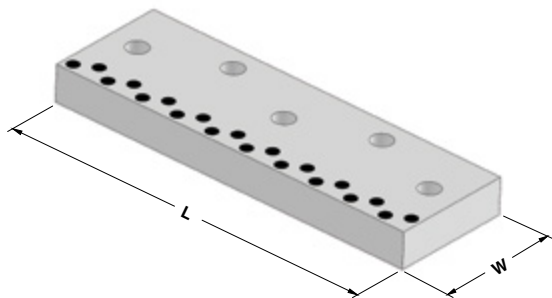
STOCK



FORD CODE
WDX7-60-1901

FORD CODE
WDX7-60-1901

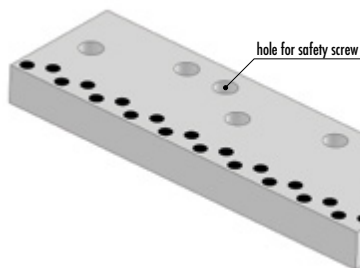
**WEAR PLATE STEEL SELF-LUBRICATING
DECKLEISTE STAHL MIT FESTSCHMIERSTOFF
PIASTRA GUIDA IN ACCIAIO AUTOLUBRIFICANTE**



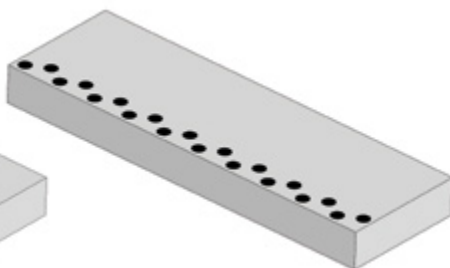
Notes
Material: CK45 + Graphite
HRC: 58÷60



Standard Ford



OPTION S



OPTION N

OPTION

S: With holes and hole for safety screw / mit Löchern und Bohrung für Sicherheitsschrauben / Con fori e foro per vite di sicurezza

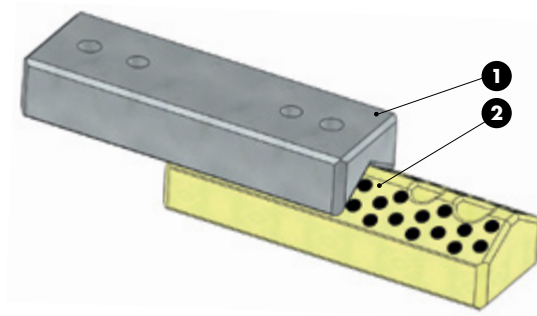
N: Without holes / Ohne Löcher / Senza fori



FORD CODE	OPTION
WDX7-65-01075253	S

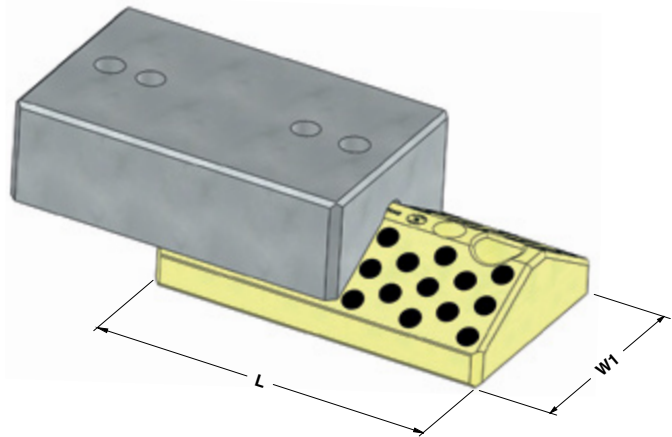
FORD CODE	W	L	Holes	FORD CODE	W	L	Holes
WDX7-65-01075200	75	200	3	WDX7-65-01125200	125	200	3
WDX7-65-01075253	75	250	3	WDX7-65-01125253	125	250	3
WDX7-65-01075315	75	315	5	WDX7-65-01125315	125	315	5
WDX7-65-01075350	75	350	5	WDX7-65-01125350	125	350	5
WDX7-65-01075400	75	400	5	WDX7-65-01125400	125	400	5
WDX7-65-01075450	75	450	5	WDX7-65-01125450	125	450	5
WDX7-65-01100200	100	200	3	WDX7-65-01150200	150	200	3
WDX7-65-01100253	100	250	3	WDX7-65-01150253	150	250	3
WDX7-65-01100315	100	315	5	WDX7-65-01150315	150	315	5
WDX7-65-01100350	100	350	5	WDX7-65-01150350	150	350	5
WDX7-65-01100400	100	400	5	WDX7-65-01150400	150	400	5
WDX7-65-01100450	100	450	5	WDX7-65-01150450	150	450	5

"V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"



Notes

- 1 Material:** CK45
HRC: 58÷60
- 2 Material:** Bronze + Graphite
HB > 190

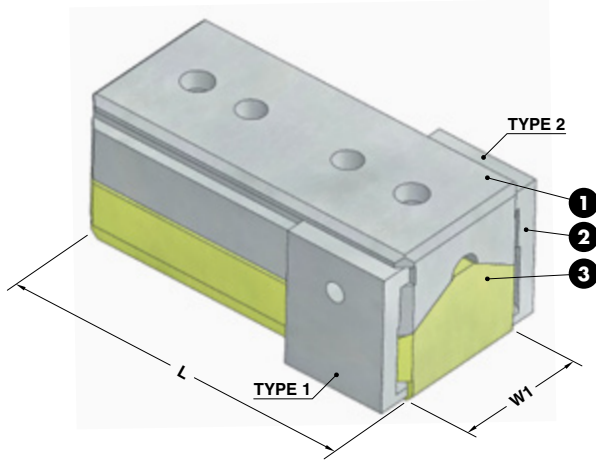


FORD CODE

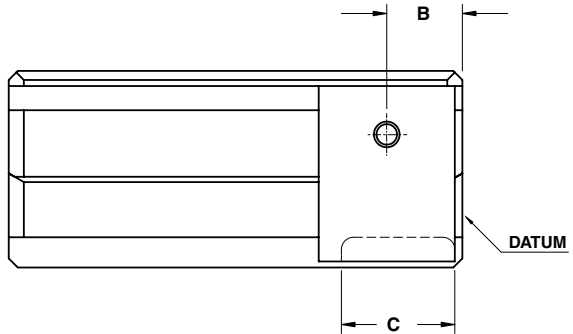
WDX7-65-03065200

FORD CODE	W1	H1	L
WDX7-65-03065150	65	65	150
WDX7-65-03065200	65	65	200
WDX7-65-03065250	65	65	250
WDX7-65-03065300	65	65	300
WDX7-65-03125150	125	85	150
WDX7-65-03125200	125	85	200
WDX7-65-03125250	125	85	250
WDX7-65-03125300	125	85	300

"V" DRIVER WITH POSITIVE RETURN
PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
GUIDA A "V" CON GANCIO DI RITORNO



- Notes**
- 1 **Material:** CK45 - HRC: 58÷60
 - 2 **Material:** 42CrMo4
 - 3 **Material:** Bronze + Graphite
HB > 190

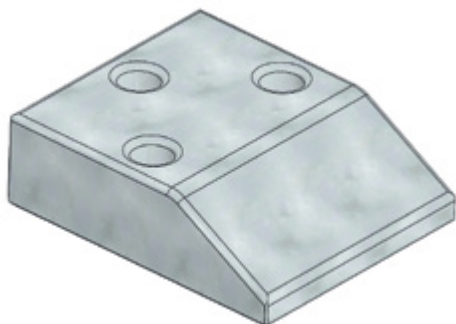


	FORD CODE	B=26	C=24
	WDX7-65-05112-A	B26	C24

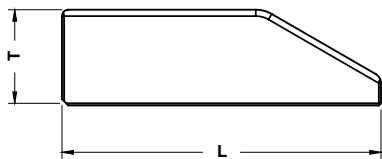
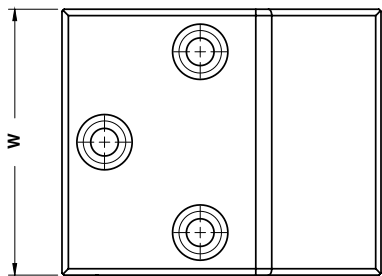
FORD CODE	W1	L	Clamp	FORD CODE	W1	L	Clamp
WDX7-65-05111-A	65	150	RIGHT	WDX7-65-05211-A	125	150	RIGHT
WDX7-65-05112-A	65	150	LEFT	WDX7-65-05212-A	125	150	LEFT
WDX7-65-05113-A	65	150	BOTH	WDX7-65-05213-A	125	150	BOTH
WDX7-65-05121-A	65	200	RIGHT	WDX7-65-05221-A	125	200	RIGHT
WDX7-65-05122-A	65	200	LEFT	WDX7-65-05222-A	125	200	LEFT
WDX7-65-05123-A	65	200	BOTH	WDX7-65-05223-A	125	200	BOTH
WDX7-65-05131-A	65	250	RIGHT	WDX7-65-05231-A	125	250	RIGHT
WDX7-65-05132-A	65	250	LEFT	WDX7-65-05232-A	125	250	LEFT
WDX7-65-05133-A	65	250	BOTH	WDX7-65-05233-A	125	250	BOTH
WDX7-65-05141-A	65	300	RIGHT	WDX7-65-05241-A	125	300	RIGHT
WDX7-65-05142-A	65	300	LEFT	WDX7-65-05242-A	125	300	LEFT
WDX7-65-05143-A	65	300	BOTH	WDX7-65-05243-A	125	300	BOTH

Standard Ford

CAM DWELL WEAR PLATE STEEL
UBERLAUFKEILE STAHL
CUNEO IN ACCIAIO



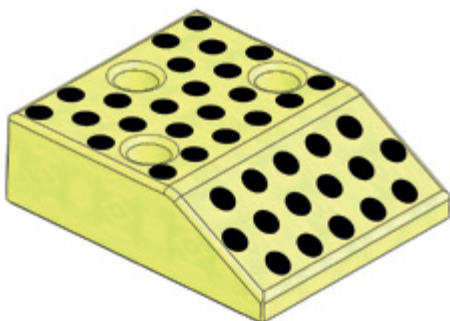
Notes
Material: 20MnCr5
HRC: 56÷60



FORD CODE
WDX7-65-09100150X

FORD CODE	T	W	L
WDX7-65-09100125X	30	100	125
WDX7-65-09100150X	45	100	150
WDX7-65-09100170X	60	100	170
WDX7-65-09125125X	30	125	125
WDX7-65-09125150X	45	125	150
WDX7-65-09125170X	60	125	170
WDX7-65-09160125X	30	160	125
WDX7-65-09160150X	45	160	150
WDX7-65-09160170X	60	160	170

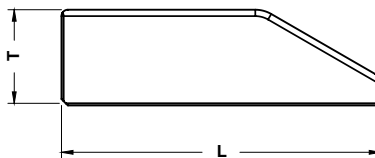
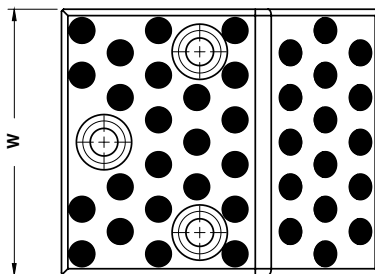
**CAM DWELL WEAR PLATE SELF-LUBRICATING
 UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
 CUNEO AUTOLUBRIFICANTE**



Notes
Material: Bronze + Graphite
HB > 190

STOCK

Standard Ford



	FORD CODE
	WDX7-65-09100150Y

FORD CODE	T	W	L
WDX7-65-09100125Y	30	100	125
WDX7-65-09100150Y	45	100	150
WDX7-65-09100170Y	60	100	170
WDX7-65-09125125Y	30	125	125
WDX7-65-09125150Y	45	125	150
WDX7-65-09125170Y	60	125	170
WDX7-65-09160125Y	30	160	125
WDX7-65-09160150Y	45	160	150
WDX7-65-09160170Y	60	160	170

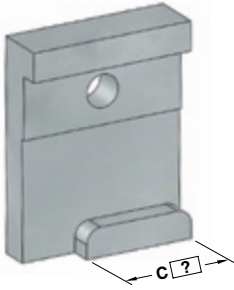
POSITIVE RETURN - ZWANGRÜCKHOLER - GANCIO

Notes

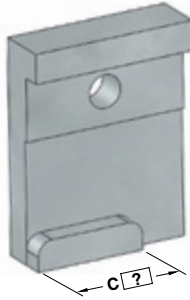
Material: CK45 - HRC: 28÷30



TYPE 1



TYPE 2



FORD CODE	TYPE	C=24
WDX7-65-0445	1	C24

FORD CODE

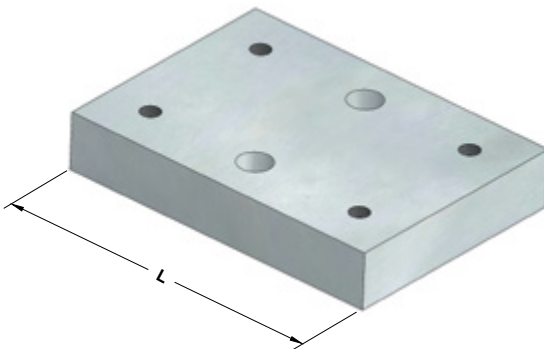
WDX7-65-0445

CAM SLIDE COVER PLATE - DECKLEISTE FÜR SCHIEBER - SUPPORTO PER CAMME

Notes

Material: S137

STOCK



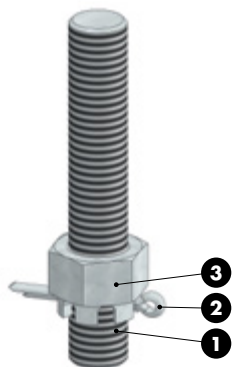
FORD CODE
WDX7-65-11175125

FORD CODE

L

WDX7-65-11175100	100
WDX7-65-11175125	125
WDX7-65-11175160	160
WDX7-65-11175200	200

UPPER CAM SAFETY SCREW
SICHERHEITSCHRAUBE FÜR OBERSCHIEBER
TIRANTE DI SICUREZZA



Max load= 1000 kg

Notes

- 1 M16 x 100 - DIN 975 cl. 8.8
- 2 DIN EN ISO 1234 - 4x32
- 3 DIN 935 cl. 8.8

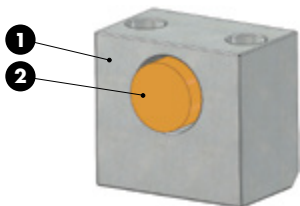


ORDER EXAMPLE 	FORD CODE
	WDX7-70-1001-A

FORD CODE
WDX7-70-1001-A

Standard Ford

SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA



Notes

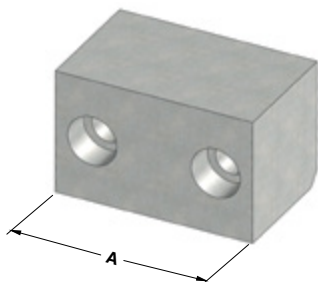
- 1 Material: CK45
- 2 Material: Urethan 90 SH



ORDER EXAMPLE 	FORD CODE
	WDX7-70-1536

FORD CODE
WDX7-70-1536

STOP BLOCK - ANSCHLAG - BLOCCHETTO DI ARRESTO



Notes

Material: CK45

STOCK

*Eigesezt mit nockendämpfer
Usato con cam buffer

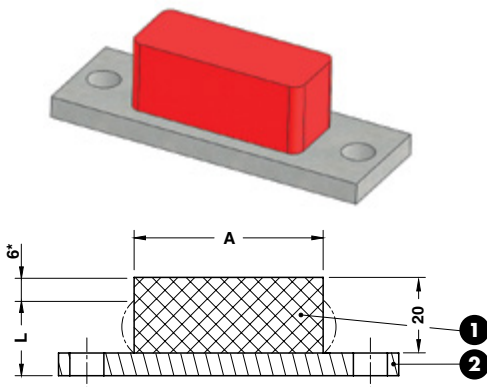


FORD CODE

WDX7-70-16130

FORD CODE	A	Used with cam buffer*
WDX7-70-16080	80	WDX7-60-1501
WDX7-70-16130	130	WDX7-60-1502

CAM BUFFER - ANSCHLAG - ARRESTO



Notes

1 Material: Polyurethane 90 SH

2 Material: St37

STOCK

*Max. deflection
Max. zul. Federweg
Deflessione massima

**Gegenkraft bei 6mm max. zul. Federweg
Max. reaction force with 6 mm deflection
Forza di reazione massima per deflessione di 6mm

***Maximal absorbierte Energie bei 6 mm max. zul. Federweg
Massima energia assorbita con deflessione di 6 mm

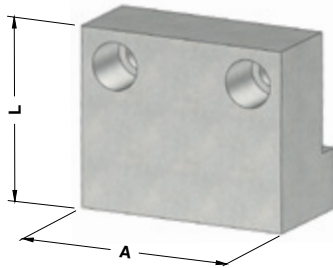


FORD CODE

WDX7-70-18100

FORD CODE	A	Force for length "L" (kN)**	Max energy absorbtion with 6 mm deflection (J)***
WDX7-70-18050	50	10	30
WDX7-70-18100	100	20	60

BUFFER SUPPORT - DÄMPFERHALTERUNG - SUPPORTO AMMORTIZZATORE



Notes

Material: CK45

STOCK

*Eigsetz mit nockendämpfer
Usato con cam buffer



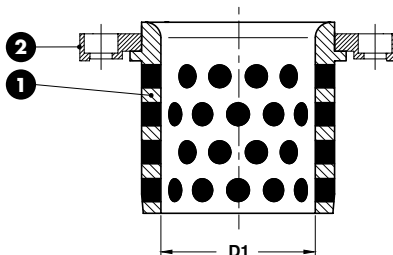
FORD CODE	L=?
WDX7-70-19140	L100

FORD CODE	A	Used with cam buffer*
WDX7-70-19090	90	WDX7-70-18050
WDX7-70-19140	140	WDX7-70-18100

Standard Ford

WDX13-60

GUIDE BUSH NAAMS - FÜHRUNGSBUCHSE NAAMS - BOCCOLA AUTOLUBRIFICANTE NAAMS



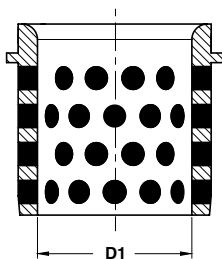
Notes

- Material:** Bronze + Graphite
HB > 190
- Material:** CK45 - WDX13-60-1001



FORD CODE
WDX13-60-08032-A

FORD CODE	D1	Toe clamp qty.
WDX13-60-08025-A	25	1
WDX13-60-08032-A	32	1
WDX13-60-08040-A	40	1
WDX13-60-08050-A	50	1
WDX13-60-08063-A	63	2
WDX13-60-08080-A	80	2
WDX13-60-08100-A	100	2
WDX13-60-08125-A	125	2



Notes

Material: Bronze + Graphite
HB > 190

STOCK



ORDER
EXAMPLE

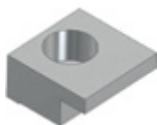
FORD CODE

WDX13-60-08032

FORD CODE

D1

WDX13-60-08025	25
WDX13-60-08032	32
WDX13-60-08040	40
WDX13-60-08050	50
WDX13-60-08063	63
WDX13-60-08080	80
WDX13-60-08100	100
WDX13-60-08125	125



Notes

Material: CK45

STOCK



ORDER
EXAMPLE

FORD CODE

WDX13-60-1001

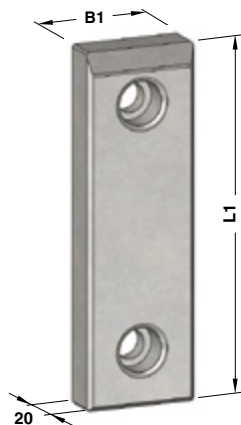
FORD CODE

WDX13-60-1001

WEAR PLATE STEEL - GLEITPLATTE STAHL - PIASTRA GUIDA IN ACCIAIO

Notes

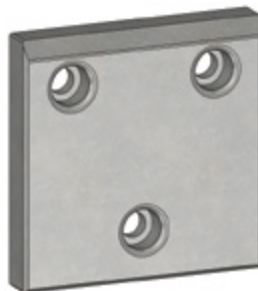
Material: 16MnCr5
HRC: 58÷60



FORM A



FORM B



FORM C

Standard Ford



FORD CODE

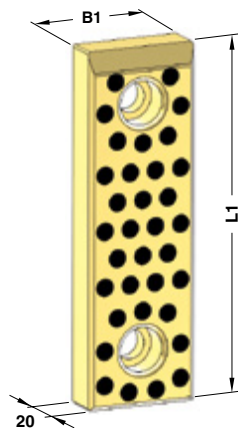
WDX13-65-01050125X

FORD CODE	B1	L1	FORM	FORD CODE	B1	L1	FORM
WDX13-65-01050100X	50	100	A	WDX13-65-01100250X	100	250	A
WDX13-65-01050125X	50	125	A	WDX13-65-01100315X	100	315	A
WDX13-65-01050160X	50	160	A	WDX13-65-01125100X	125	100	C
WDX13-65-01050200X	50	200	A	WDX13-65-01125125X	125	125	C
WDX13-65-01080100X	80	100	A	WDX13-65-01125160X	125	160	C
WDX13-65-01080125X	80	125	A	WDX13-65-01125200X	125	200	C
WDX13-65-01080160X	80	160	A	WDX13-65-01125250X	125	250	C
WDX13-65-01080200X	80	200	A	WDX13-65-01125315X	125	315	C
WDX13-65-01080250X	80	250	A	WDX13-65-01160100X	160	100	C
WDX13-65-01080315X	80	315	A	WDX13-65-01160125X	160	125	C
WDX13-65-01100050X	100	50	B	WDX13-65-01160160X	160	160	C
WDX13-65-01100100X	100	100	A	WDX13-65-01160200X	160	200	C
WDX13-65-01100125X	100	125	A	WDX13-65-01160250X	160	250	C
WDX13-65-01100160X	100	160	A	WDX13-65-01160315X	160	315	C
WDX13-65-01100200X	100	200	A				

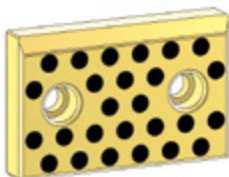
WEAR PLATE SELF-LUBRICATING GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF PIASTRA GUIDA AUTOLUBRIFICANTE

Notes

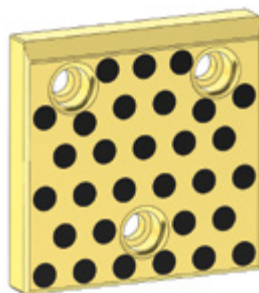
Material: Bronze + Graphite
HB > 190



FORM A



FORM B



FORM C

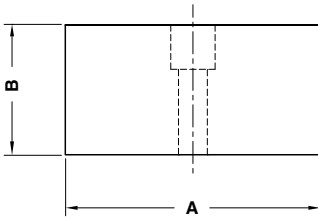
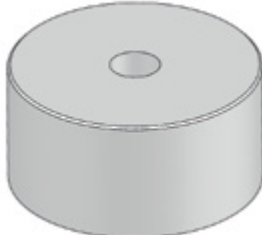


FORD CODE

WDX13-65-01050125Y

FORD CODE	B1	L1	FORM	FORD CODE	B1	L1	FORM
WDX13-65-01050100Y	50	100	A	WDX13-65-01100250Y	100	250	A
WDX13-65-01050125Y	50	125	A	WDX13-65-01100315Y	100	315	A
WDX13-65-01050160Y	50	160	A	WDX13-65-01125100Y	125	100	C
WDX13-65-01050200Y	50	200	A	WDX13-65-01125125Y	125	125	C
WDX13-65-01080100Y	80	100	A	WDX13-65-01125160Y	125	160	C
WDX13-65-01080125Y	80	125	A	WDX13-65-01125200Y	125	200	C
WDX13-65-01080160Y	80	160	A	WDX13-65-01125250Y	125	250	C
WDX13-65-01080200Y	80	200	A	WDX13-65-01125315Y	125	315	C
WDX13-65-01080250Y	80	250	A	WDX13-65-01160100Y	160	100	C
WDX13-65-01080315Y	80	315	A	WDX13-65-01160125Y	160	125	C
WDX13-65-01100050Y	100	50	B	WDX13-65-01160160Y	160	160	C
WDX13-65-01100100Y	100	100	A	WDX13-65-01160200Y	160	200	C
WDX13-65-01100125Y	100	125	A	WDX13-65-01160250Y	160	250	C
WDX13-65-01100160Y	100	160	A	WDX13-65-01160315Y	160	315	C
WDX13-65-01100200Y	100	200	A				

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK

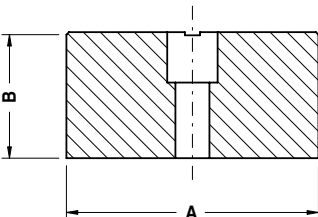


FORD CODE		
WDX13-65-04060		

FORD CODE	A	B
WDX13-65-04040	40	30
WDX13-65-04060	60	50
WDX13-65-04100	100	50
WDX13-65-04152	152	50

Standard Ford

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: CK45

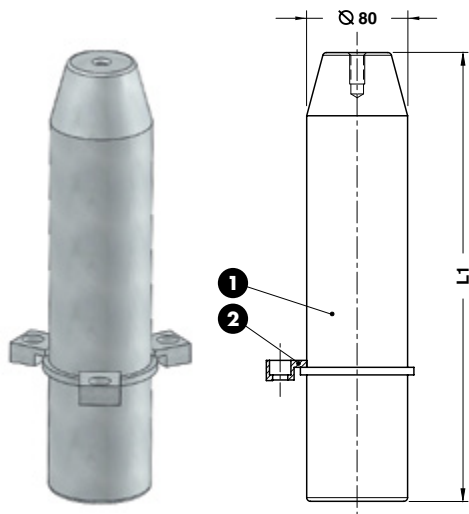
STOCK



FORD CODE		
WDX13-65-04060 1		

FORD CODE	A	B
WDX13-65-04040 1	40	30
WDX13-65-04060 1	60	50
WDX13-65-04100 1	100	50
WDX13-65-04152 1	152	50

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



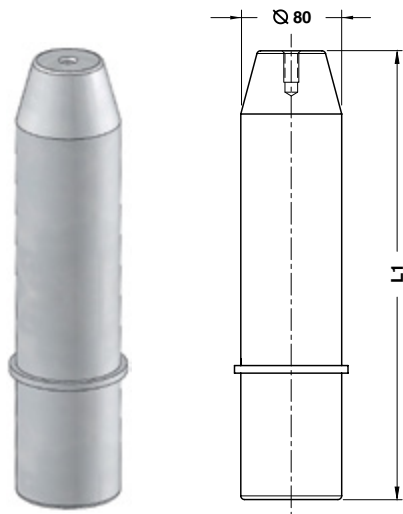
Notes

- 1 **Material:** 16MnCr5
HRC: 58÷60
- 2 **Material:** CK45
WDX13-60-1001



	FORD CODE	
	WDX13-65-10080355-A	
FORD CODE	L1	Toe clamp qty.
WDX13-65-10080315-A	315	3
WDX13-65-10080355-A	355	3
WDX13-65-10080400-A	400	3

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



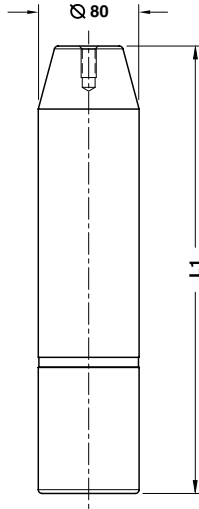
Notes

Material: 16MnCr5
HRC: 58÷60



	FORD CODE	
	WDX13-65-10080355	
FORD CODE	L1	
WDX13-65-10080315	315	
WDX13-65-10080355	355	
WDX13-65-10080400	400	

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



Notes

Material: 16MnCr5
HRC: 58÷60



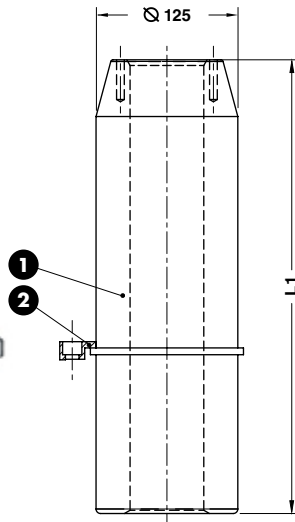
FORD CODE

WDX13-65-11080355

FORD CODE	L1
WDX13-65-11080315	315
WDX13-65-11080355	355
WDX13-65-11080400	400

Standard Ford

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



Notes

- Material:** 16MnCr5
HRC: 60÷62
- Material:** CK45
WDX13-60-1001

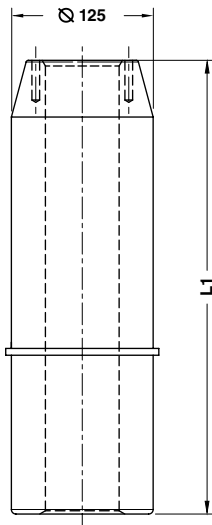


FORD CODE

WDX13-65-12125450-A

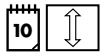
FORD CODE	L1	Toe clamp qty.
WDX13-65-12125400-A	400	3
WDX13-65-12125450-A	450	3
WDX13-65-12125500-A	500	3

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



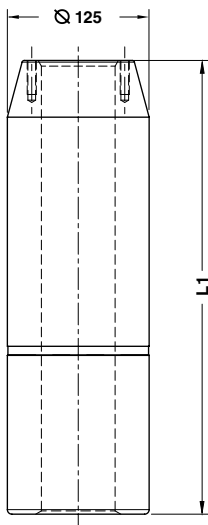
Notes

Material: 16MnCr5
HRC: 60÷62



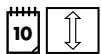
ORDER EXAMPLE 	FORD CODE	
	WDX13-65-12125450	
FORD CODE		L1
WDX13-65-12125400		400
WDX13-65-12125450		450
WDX13-65-12125500		500

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



Notes

Material: 16MnCr5
HRC: 60÷62



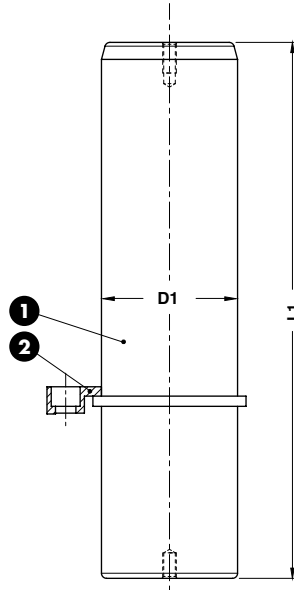
ORDER EXAMPLE 	FORD CODE	
	WDX13-65-13125450	
FORD CODE		L1
WDX13-65-13125400		400
WDX13-65-13125450		450
WDX13-65-13125500		500

GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



Notes

- 1 **Material:** 16MnCr5
HRC: 60÷62
- 2 **Material:** CK45
WDX13-60-1001



Standard Ford

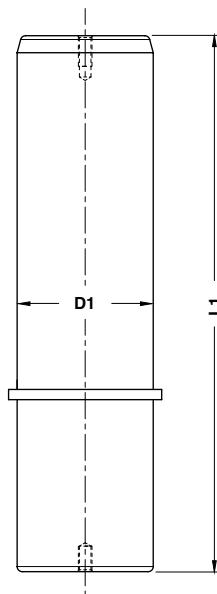
	FORD CODE
	WDX13-65-20025160-A

FORD CODE	D1	L1	Toe clamp qty.	FORD CODE	D1	L1	Toe clamp qty.
WDX13-65-20025140-A	25	140	2	WDX13-65-20050315-A	50	315	2
WDX13-65-20025160-A	25	160	2	WDX13-65-20063200-A	63	200	3
WDX13-65-20025180-A	25	180	2	WDX13-65-20063224-A	63	224	3
WDX13-65-20032140-A	32	140	2	WDX13-65-20063250-A	63	250	3
WDX13-65-20032160-A	32	160	2	WDX13-65-20063280-A	63	280	3
WDX13-65-20032180-A	32	180	2	WDX13-65-20063315-A	63	315	3
WDX13-65-20032200-A	32	200	2	WDX13-65-20063355-A	63	355	3
WDX13-65-20040160-A	40	160	2	WDX13-65-20063400-A	63	400	3
WDX13-65-20040180-A	40	180	2	WDX13-65-20080250-A	80	250	3
WDX13-65-20040200-A	40	200	2	WDX13-65-20080280-A	80	280	3
WDX13-65-20040224-A	40	224	2	WDX13-65-20080315-A	80	315	3
WDX13-65-20040250-A	40	250	2	WDX13-65-20080355-A	80	355	3
WDX13-65-20050160-A	50	160	2	WDX13-65-20080400-A	80	400	3
WDX13-65-20050180-A	50	180	2	WDX13-65-20080500-A	80	500	3
WDX13-65-20050200-A	50	200	2	WDX13-65-20100315-A	100	315	3
WDX13-65-20050224-A	50	224	2	WDX13-65-20100355-A	100	355	3
WDX13-65-20050250-A	50	250	2	WDX13-65-20100400-A	100	400	3
WDX13-65-20050280-A	50	280	2	WDX13-65-20100500-A	100	500	3

GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



Notes
Material: 16MnCr5
HRC: 60±62



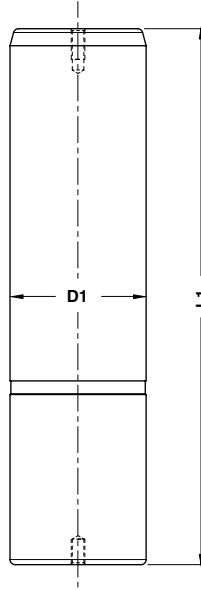
FORD CODE
WDX13-65-20025160

FORD CODE	D1	L1	FORD CODE	D1	L1
WDX13-65-20025140	25	140	WDX13-65-20050315	50	315
WDX13-65-20025160	25	160	WDX13-65-20063200	63	200
WDX13-65-20025180	25	180	WDX13-65-20063224	63	224
WDX13-65-20032140	32	140	WDX13-65-20063250	63	250
WDX13-65-20032160	32	160	WDX13-65-20063280	63	280
WDX13-65-20032180	32	180	WDX13-65-20063315	63	315
WDX13-65-20032200	32	200	WDX13-65-20063355	63	355
WDX13-65-20040160	40	160	WDX13-65-20063400	63	400
WDX13-65-20040180	40	180	WDX13-65-20080250	80	250
WDX13-65-20040200	40	200	WDX13-65-20080280	80	280
WDX13-65-20040224	40	224	WDX13-65-20080315	80	315
WDX13-65-20040250	40	250	WDX13-65-20080355	80	355
WDX13-65-20050160	50	160	WDX13-65-20080400	80	400
WDX13-65-20050180	50	180	WDX13-65-20080500	80	500
WDX13-65-20050200	50	200	WDX13-65-20100315	100	315
WDX13-65-20050224	50	224	WDX13-65-20100355	100	355
WDX13-65-20050250	50	250	WDX13-65-20100400	100	400
WDX13-65-20050280	50	280	WDX13-65-20100500	100	500

GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



Notes
Material: 16MnCr5
HRC: 60±62



Standard Ford



FORD CODE
WDX13-65-22025160

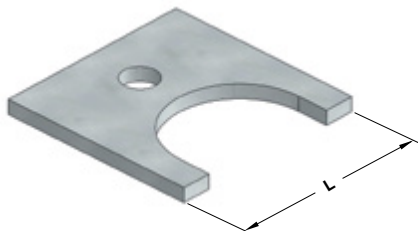
FORD CODE	D1	L1	FORD CODE	D1	L1
WDX13-65-22025140	25	140	WDX13-65-22050315	50	315
WDX13-65-22025160	25	160	WDX13-65-22063200	63	200
WDX13-65-22025180	25	180	WDX13-65-22063224	63	224
WDX13-65-22032140	32	140	WDX13-65-22063250	63	250
WDX13-65-22032160	32	160	WDX13-65-22063280	63	280
WDX13-65-22032180	32	180	WDX13-65-22063315	63	315
WDX13-65-22032200	32	200	WDX13-65-22063355	63	355
WDX13-65-22040160	40	160	WDX13-65-22063400	63	400
WDX13-65-22040180	40	180	WDX13-65-22080250	80	250
WDX13-65-22040200	40	200	WDX13-65-22080280	80	280
WDX13-65-22040224	40	224	WDX13-65-22080315	80	315
WDX13-65-22040250	40	250	WDX13-65-22080355	80	355
WDX13-65-22050160	50	160	WDX13-65-22080400	80	400
WDX13-65-22050180	50	180	WDX13-65-22080500	80	500
WDX13-65-22050200	50	200	WDX13-65-22100315	100	315
WDX13-65-22050224	50	224	WDX13-65-22100355	100	355
WDX13-65-22050250	50	250	WDX13-65-22100400	100	400
WDX13-65-22050280	50	280	WDX13-65-22100500	100	500

RETAINER PLATE - PLATTE - PIASTRA

Notes

Material: Si37

STOCK



FORD CODE

WDX14-60-0135

FORD CODE	L	Pin Size
WDX14-60-0125	40	25
WDX14-60-0135	50	35
WDX14-60-0150	60	50
WDX14-60-0155	70	55
WDX14-60-0163	80	63

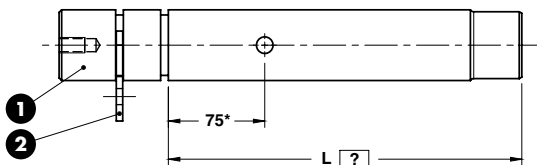
PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- Material:** CK45
- Material:** Si37
WDX14-60-0155



*Only with L>500, supplied with safety pin WDX14-60-0280

Nur für L>500, mit Stift zugeführt WDX14-60-0280

Solo per L>500, fornito con perno di sicurezza WDX14-60-0280

** Allowable load for pin under static load

Zulässigel gewicht für bolzen unter statischer belastung

Carico ammissibile per perno sottoposto a carico statico



FORD CODE

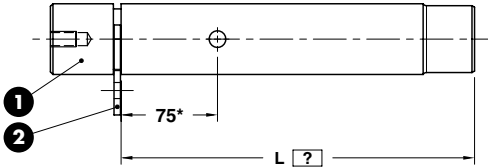
L=275

WDX14-60-025501-A

L275

FORD CODE	Load per pin** (kg)
WDX14-60-025501-A	5200

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



*Only with L>500, supplied with safety pin WDX14-60-0280
 Nur für L>500, mit Stift zugeführt WDX14-60-0280
 Solo per L>500, fornito con perno di sicurezza WDX14-60-0280

** Allowable load for pin under static load
 Zulässigel gewicht für bolzen unter statischer belastung
 Carico ammissibile per perno sottoposto a carico statico



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 **Material:** CK45
- 2 **Material:** St37
WDX14-60-0155



	FORD CODE	L=275
	WDX14-60-025502-A	L275
FORD CODE		Load per pin**(kg)
WDX14-60-025502-A		5200

Standard Ford

SAFETY PIN - STIFT - PERNO DI SICUREZZA



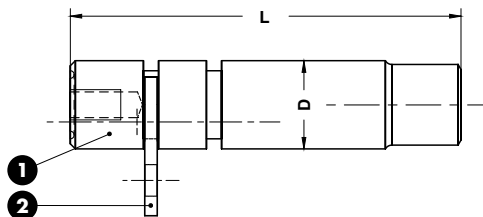
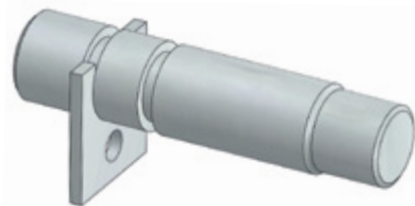
Notes

Material: CK45



	FORD CODE
	WDX14-60-0280
FORD CODE	
WDX14-60-0280	

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 **Material:** CK45
- 2 **Material:** St37



FORD CODE
 WDX14-60-0335-A

FORD CODE	Retainer plate (2)	D	L	Load per pin** (kg)
WDX14-60-0325-A	WDX14-60-0125	25	130	1000
WDX14-60-0335-A	WDX14-60-0135	35	155	2500
WDX14-60-0350-A	WDX14-60-0150	50	200	5000
WDX14-60-0363-A	WDX14-60-0163	63	250	8000

**Allowable load for pin under static load
 Zulässige Last für Bolzen unter statischer Belastung
 Carico ammissibile per perno sottoposto a carico statico

SECURING DISC - SCHEIBE - RONDELLA DI SICUREZZA



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

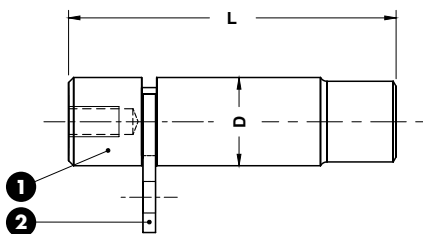
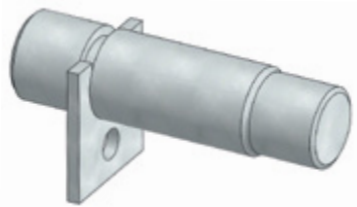


FORD CODE
 WDX14-60-0406

FORD CODE

WDX14-60-0406

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



FORD CODE

WDX14-60-0435-A

FORD CODE	Retainer plate (2)	D	L	Load per pin**(kg)
WDX14-60-0425-A	WDX14-60-0125	25	110	1000
WDX14-60-0435-A	WDX14-60-0135	35	130	2500
WDX14-60-0450-A	WDX14-60-0150	50	170	5000
WDX14-60-0463-A	WDX14-60-0163	63	210	8000



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

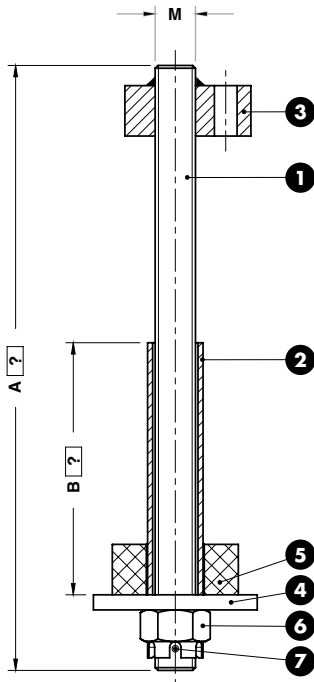
- 1 **Material:** CK45
- 2 **Material:** St37

STOCK



**Allowable load for pin under static load
 Zulässige Last für Bolzen unter statischer Belastung
 Carico ammissibile per perno sottoposto a carico statico

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 **Material:** 36CrNiMo4
- 2 Tube DIN 2391
- 3 **Material:** St37
- 4 **Material:** CK45
- 5 **Material:** Elastomer 92SH
- 6 Hexagon castle nut DIN 935
- 7 Split Pin. DIN EN ISO 1234

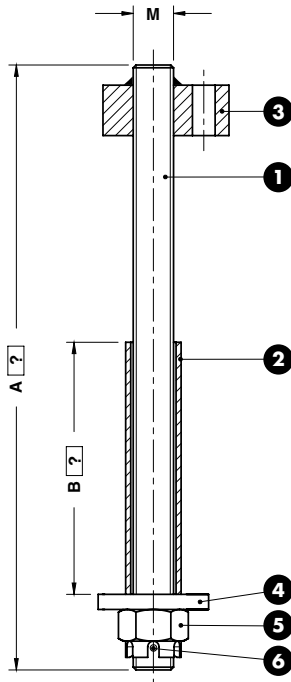


FORD CODE	M=M20	A=290	B=170
WDX14-60-0520	20	A290	B170

FORD CODE	M	Max load (kg)
WDX14-60-0516	M16	250
WDX14-60-0520	M20	450
WDX14-60-0524	M24	750
WDX14-60-0530	M30	1250

*Drill hole in rod for copper pin at assembly
 Bohrung für splint durchzuführen bei der montage
 Foro per coppiglia da eseguire al montaggio

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 **Material:** 36CrNiMo4
- 2 Tube DIN 2391
- 3 **Material:** St37
- 4 **Material:** CK45
- 5 Hexagon castle nut DIN 935
- 6 Split Pin. DIN EN ISO 1234**



FORD CODE	M=M20	A=290	B=170
WDX14-60-0620	20	A290	B170

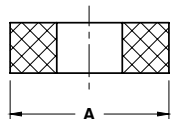
FORD CODE	M	Max load (kg)
WDX14-60-0612	M12	550
WDX14-60-0616	M16	1000
WDX14-60-0620	M20	1400

*Drill hole in rod for copper pin at assembly
 Bohrung für Splint durchzuführen bei der Montage
 Foro per coppiglia da eseguire al montaggio

WDX14-60

OMCR

BUFFER - STOSSDÄMPFER - AMMORTIZZATORE



STOCK

Notes

Material: Elastomer 92 SH



FORD CODE

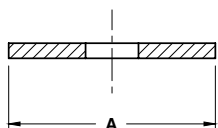
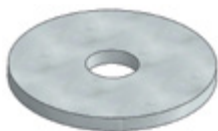
WDX14-60-0902

FORD CODE	Size	A
WDX14-60-0901	M16	50
WDX14-60-0902	M20	63
WDX14-60-0903	M24	80
WDX14-60-0904	M30	100

WDX14-60

OMCR

WASHER RETAINER - SCHEIBE - RONDELLA



STOCK

Notes

Material: CK45



FORD CODE

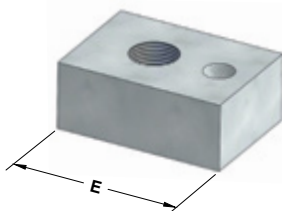
WDX14-60-1002

FORD CODE	Size	A
WDX14-60-1001	M16	65
WDX14-60-1002	M20	82
WDX14-60-1003	M24	105
WDX14-60-1004	M30	130

WDX14-60

OMCR

THREADED BLOCK - DÜBEL - TASSELLO



STOCK

Notes

Material: St37

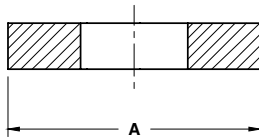


FORD CODE

WDX14-60-1007

FORD CODE	Size	E
WDX14-60-1005	M12	25
WDX14-60-1006	M16	35
WDX14-60-1007	M20	40
WDX14-60-1008	M24	45
WDX14-60-1009	M30	50

WASHER RETAINER - SCHEIBE - RONDELLA



Notes

Material: CK45

STOCK

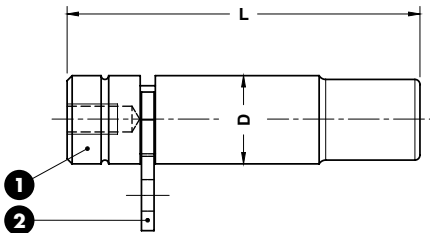
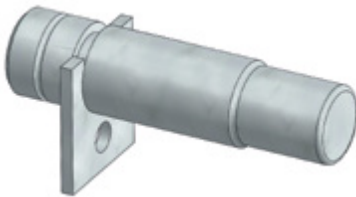


FORD CODE

WDX14-60-1312

FORD CODE	Size	A
WDX14-60-1310	M10	25
WDX14-60-1312	M12	30
WDX14-60-1316	M16	40
WDX14-60-1320	M20	44

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 **Material:** CK45
- 2 **Material:** St37
WDX14-60-0155

STOCK



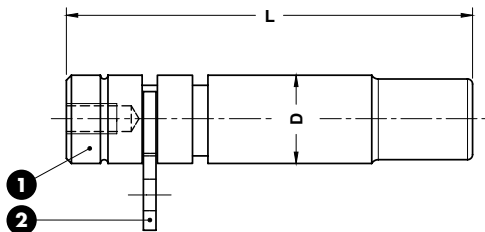
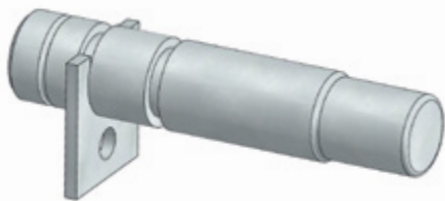
FORD CODE

WDX14-60-1435-A

FORD CODE	D	L	Load per pin* (kg)
WDX14-60-1425-A	25	120	1000
WDX14-60-1435-A	35	140	2500
WDX14-60-1450-A	50	180	5000
WDX14-60-1463-A	63	210	8000

*Allowable load for pin under static load
 Zulässigel gewicht für bolzen unter statischer belastung
 Carico ammissibile per perno sottoposto a carico statico

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



* Allowable load for pin under static load
 Zulässiges Gewicht für Bolzen unter statischer Belastung
 Carico ammissibile per perno sottoposto a carico statico



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

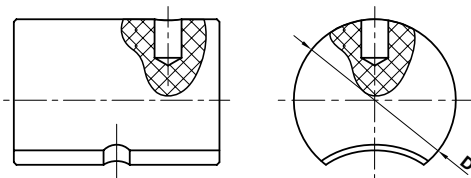
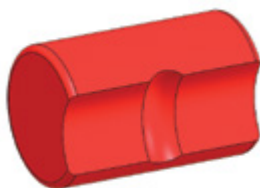
- 1 **Material:** CK45
- 2 **Material:** St37
WDX14-60-0155



FORD CODE
WDX14-60-1535-A

FORD CODE	D	L	Load per pin* (kg)
WDX14-60-1525-A	25	145	1000 kg
WDX14-60-1535-A	35	170	2500 kg
WDX14-60-1550-A	50	215	5000 kg
WDX14-60-1563-A	63	255	8000 kg

SHOCK ABSORBER - HALTELEMENT - AMMORTIZZATORE



Notes

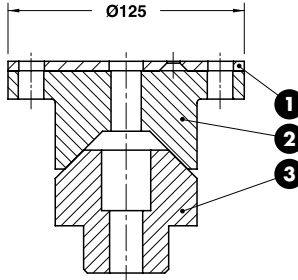
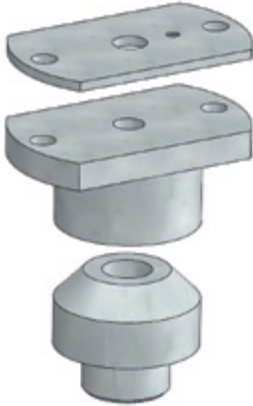
Material: Elastomer 92SH



FORD CODE
WDX14-60-1702

FORD CODE	Pad side pin	D
WDX14-60-1701	25	40
WDX14-60-1702	35	50
WDX14-60-1703	50	63
	63	63

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



Notes

- 1 **Material:** St37
- 2 3 **Material:** 42CrMo4 - HRC: 58÷60



FORD CODE

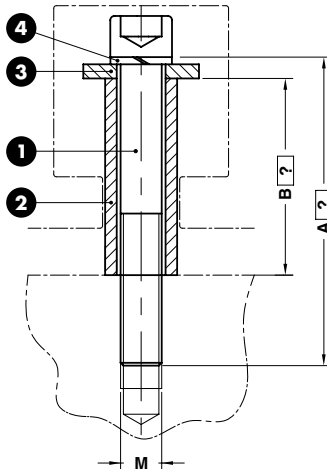
WDX14-62-0175

FORD CODE

WDX14-62-0175

Standard Ford

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

- 1 DIN 912
- 2 Tube DIN 2391
- 3 **Material:** CK45
- 4 DIN 127



FORD CODE

WDX14-65-1112

A=290 B=170

A290 B170

FORD CODE

M

Max load (kg)

WDX14-65-1110 M10 100

WDX14-65-1112 M12 150

WDX14-65-1116 M16 250

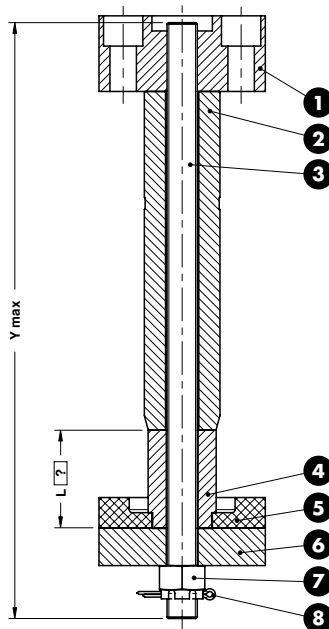
RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

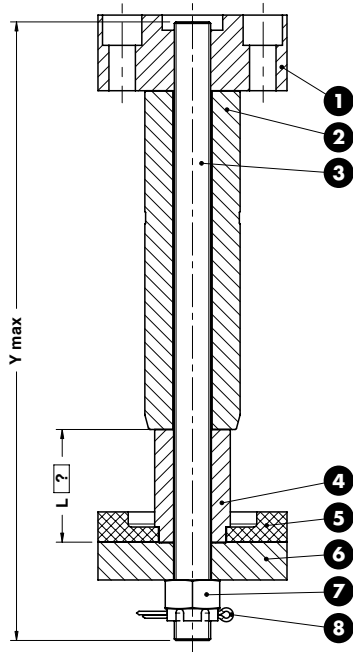
- ❶ WDX14-65-06110
- ❷ WDX146504050180/200/224/250
- ❸ WDX14650820350/370/394/420
- ❹ WDX14-65-05050
- ❺ WDX14-65-07110
- ❻ WDX14-65-05110
- ❼ M20 Hexagon slotted nut DIN 935
- ❽ Split Pin. DIN EN ISO 1234



ORDER EXAMPLE	FORD CODE	L=50
	WDX14-65-0150200	L50

FORD CODE	Y max	Max load (kg)
WDX14-65-0150180	350	450
WDX14-65-0150200	370	450
WDX14-65-0150224	394	450
WDX14-65-0150250	420	450
WDX14-65-0150280	450	450

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- ❶ WDX14-65-06150
- ❷ WDX14-65-04063200/224/250/280/315
- ❸ WDX14-65-0824385/409/435/465
- ❹ WDX14-65-05063
- ❺ WDX14-65-07125
- ❻ WDX14-65-05125
- ❼ M24 Hexagon slotted nut DIN 935
- ❽ Split Pin. DIN EN ISO 1234

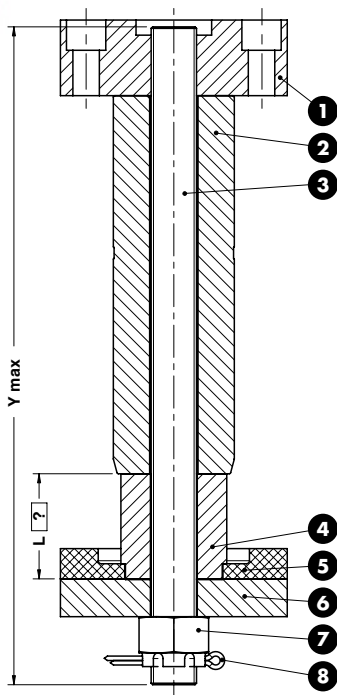


Standard Ford

ORDER EXAMPLE	FORD CODE	L=70
	WDX14-65-0263224	L70

FORD CODE	Y max	Max load (kg)
WDX14-65-0263200	385	750
WDX14-65-0263224	409	750
WDX14-65-0263250	435	750
WDX14-65-0263280	465	750

RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- ❶ WDX14-65-06150
- ❷ WDX14-65-04080250/280/315/ 355/340
- ❸ WDX14-65-0830435/465/500/ 540/585
- ❹ WDX14-65-05080
- ❺ WDX14-65-07150
- ❻ WDX14-65-05150
- ❼ M30 Hexagon slotted nut DIN 935
- ❽ Split Pin. DIN EN ISO 1234



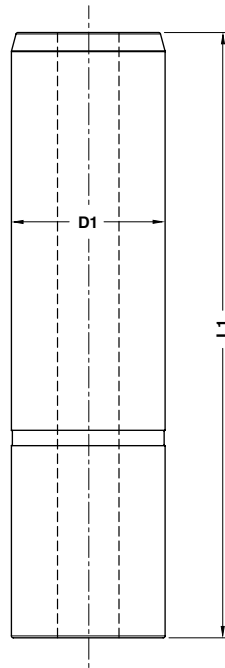
FORD CODE	L=65
WDX14-65-0380280	L65

FORD CODE	Y max	Max load (kg)
WDX14-65-0380250	435	1250
WDX14-65-0380280	465	1250
WDX14-65-0380315	500	1250
WDX14-65-0380355	540	1250
WDX14-65-0380400	585	1250

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - **HRC:** 57±62



Standard Ford

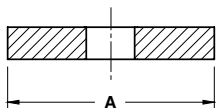
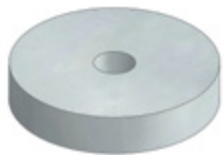
	FORD CODE
	WDX14-65-04050200

FORD CODE	D1	L1	FORD CODE	D1	L1
WDX14-65-04050180	50	180	WDX14-65-04063280	63	280
WDX14-65-04050200	50	200	WDX14-65-04063315	63	315
WDX14-65-04050224	50	224	WDX14-65-04080250	80	250
WDX14-65-04050250	50	250	WDX14-65-04080280	80	280
WDX14-65-04050280	50	280	WDX14-65-04080315	80	315
WDX14-65-04063200	63	200	WDX14-65-04080355	80	355
WDX14-65-04063224	63	224	WDX14-65-04080400	80	400
WDX14-65-04063250	63	250			

WDX14-65

OMCR

WASHER - SCHEIBE - RONDELLA



STOCK

Notes

Material: Si37



FORD CODE

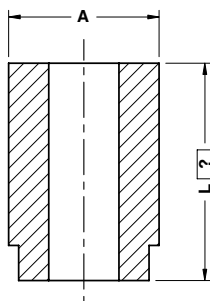
WDX14-65-05125

FORD CODE	Guide post	A
WDX14-65-05110	∅ 50	110
WDX14-65-05125	∅ 63	125
WDX14-65-05150	∅ 80	150

WDX14-65

OMCR

SPACER - DISTANZSTÜCK - DISTANZIALE



STOCK

Notes

Material: Si37



FORD CODE

WDX14-65-05063

L=70

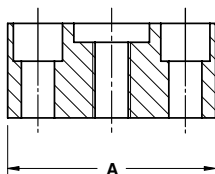
L70

FORD CODE	Guide post	A	L Max
WDX14-65-05050	∅ 50	45	65
WDX14-65-05063	∅ 63	50	75
WDX14-65-05080	∅ 80	70	70

WDX14-65

OMCR

RETAINER BOLT BLOCK - AUFNAHMEBOLZEN BLOCK - TASSELLO DI TENUTA



STOCK

Notes

Material: Si37

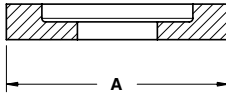


FORD CODE

WDX14-65-06125

FORD CODE	Guide post	A
WDX14-65-06110	∅ 50	110
WDX14-65-06125	∅ 63	125
WDX14-65-06150	∅ 80	150

BUFFER - STOSSDÄMPFER - AMMORTIZZATORE



STOCK

Notes

Material: Elastomer 92SH



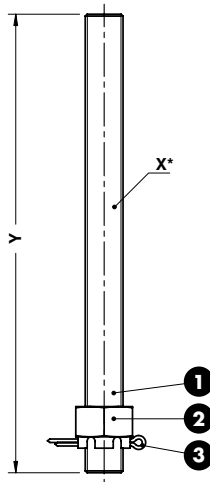
FORD CODE

WDX14-65-07125

FORD CODE	Guide post	A
WDX14-65-07110	Ø 50	110
WDX14-65-07125	Ø 63	125
WDX14-65-07150	Ø 80	150

Standard Ford

**RETAINER BOLT ASSEMBLY
AUFNAHMEBOLZEN ZUSAMMENBAU
GRUPPO TIRANTE**



Notes

- 1 Min. grade 8.8 DIN 975
- 2 Hexagon slotted nut DIN 935
- 3 Split Pin. DIN EN ISO 1234

STOCK



* Threaded rod
Gewindestange
Asta filettata

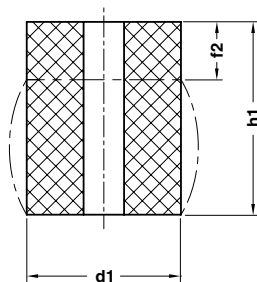


FORD CODE

WDX14-65-0820370

FORD CODE	Guide post	Y	X	FORD CODE	Guide post	Y	X
WDX14-65-0820350	Ø 50	180	M20 x 2.5	WDX14-65-0824465	Ø 63	280	M24 x 3.0
WDX14-65-0820370	Ø 50	200	M20 x 2.5	WDX14-65-0830435	Ø 63	315	M24 x 3.0
WDX14-65-0820394	Ø 50	224	M20 x 2.5	WDX14-65-0830465	Ø 80	250	M30 x 3.5
WDX14-65-0820420	Ø 50	250	M20 x 2.5	WDX14-65-0830500	Ø 80	280	M30 x 3.5
WDX14-65-0824385	Ø 63	200	M24 x 3.0	WDX14-65-0830540	Ø 80	315	M30 x 3.5
WDX14-65-0824409	Ø 63	224	M24 x 3.0	WDX14-65-0830585	Ø 80	355	M30 x 3.5
WDX14-65-0824435	Ø 63	250	M24 x 3.0				

ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO



Notes

Material: Elastomer 90SH



S = max. 30% H

STOCK



FORD CODE

WDX14-70-194040

FORD CODE	d1	f2	h1	FORD CODE	d1	f2	h1	FORD CODE	d1	f2	h1
WDX14-70-194032	40	2,5	32	WDX14-70-195080	50	6,4	80	WDX14-70-198032	80	2,5	32
WDX14-70-194040	40	3,2	40	WDX14-70-1950100	50	8	100	WDX14-70-198040	80	3,2	40
WDX14-70-194050	40	4	50	WDX14-70-196332	63	2,5	32	WDX14-70-198050	80	4	50
WDX14-70-194063	40	5	63	WDX14-70-196340	63	3,2	40	WDX14-70-198063	80	5	63
WDX14-70-194080	40	6,4	80	WDX14-70-196350	63	4	50	WDX14-70-198080	80	6,4	80
WDX14-70-195032	50	2,5	32	WDX14-70-196363	63	5	63	WDX14-70-1980100	80	8	100
WDX14-70-195040	50	3,2	40	WDX14-70-196380	63	6,4	80	WDX14-70-1980125	80	10	125
WDX14-70-195050	50	4	50	WDX14-70-1963100	63	8	100				
WDX14-70-195063	50	5	63	WDX14-70-1963125	63	10	125				

WDX15-70

BUSH - BUCHSE - BOCCOLA



Notes

Material: Si2

STOCK



FORD CODE

WDX15-70-0101

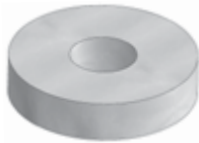
FORD CODE

WDX15-70-0101

WDX15-70

OMCR

WASHER - SCHEIBE - RONDELLA



Notes

Material: 42CrMo4

STOCK



FORD CODE

WDX15-70-0201

FORD CODE

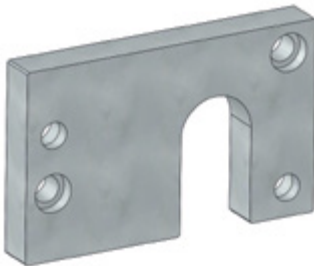
WDX15-70-0201

Standard Ford

WDX15-70

OMCR

SHIM - SPANNSCHLITZ - SPESSORE



Notes

Material: St52

STOCK



FORD CODE

WDX15-70-0301

FORD CODE

WDX15-70-0301

WDX15-70

OMCR

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



Notes

Material: CK45

STOCK



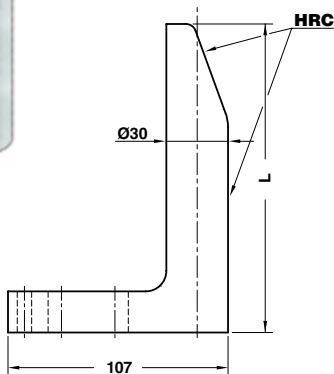
FORD CODE

WDX15-70-0401

FORD CODE

WDX15-70-0401

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - HRC: 56÷60

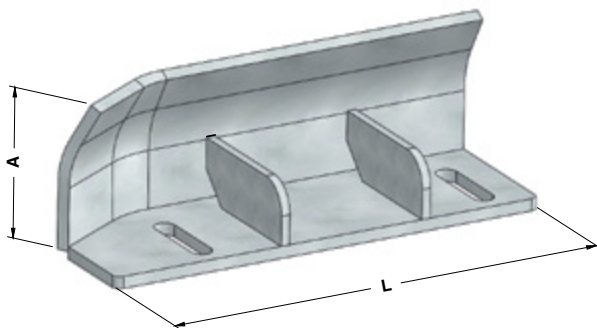


FORD CODE

WDX16-60-01090

FORD CODE	L
WDX16-60-01065	65
WDX16-60-01090	90
WDX16-60-01120	120
WDX16-60-01150	150
WDX16-60-01180	180
WDX16-60-01250	250

SIDE GUIDE - FÜHRUNG - GUIDA FOGLIO



Notes

Material: St37



*Opposite to drawing
Spiegelverkehrt
Opposto al disegno

**As shown in drawing
Gemäß zeichnung
Come a disegno

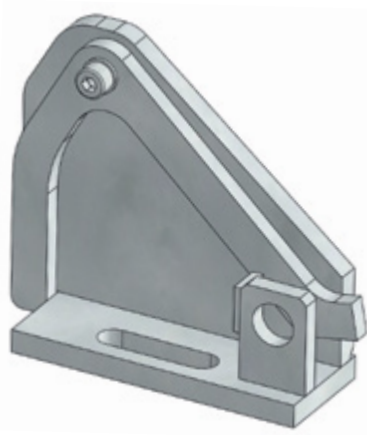


FORD CODE

WDX16-70-0203

FORD CODE*	FORD CODE**	A	L	FORD CODE*	FORD CODE**	A	L
WDX16-70-0201	WDX16-70-0202	100	200	WDX16-70-0213	WDX16-70-0214	150	400
WDX16-70-0203	WDX16-70-0204	100	300	WDX16-70-0215	WDX16-70-0216	150	500
WDX16-70-0205	WDX16-70-0206	100	400	WDX16-70-0217	WDX16-70-0218	200	200
WDX16-70-0207	WDX16-70-0208	100	500	WDX16-70-0219	WDX16-70-0220	200	300
WDX16-70-0209	WDX16-70-0210	150	200	WDX16-70-0221	WDX16-70-0222	200	400
WDX16-70-0211	WDX16-70-0212	150	300	WDX16-70-0223	WDX16-70-0224	200	500

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



Notes

Material: Si37

STOCK

*Gemäß zeichnung
Come a disegno

**Spiegelverkehrt
Opposto al disegno



FORD CODE

WDX16-70-0301R

FORD CODE

FORM

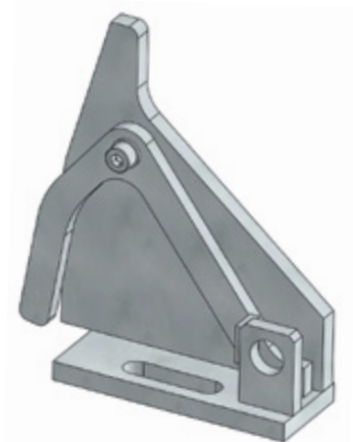
WDX16-70-0301R

As shown in drawing*

WDX16-70-0301L

Opposite to drawing**

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



Notes

Material: Si37

STOCK

*Gemäß zeichnung
Come a disegno

**Spiegelverkehrt
Opposto al disegno



FORD CODE

WDX16-70-0701R

FORD CODE

FORM

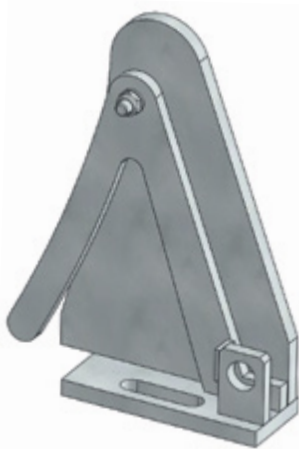
WDX16-70-0701R

As shown in drawing*

WDX16-70-0701L

Opposite to drawing**

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



Notes

Material: St37

STOCK

*Gemäß zeichnung
Come a disegno

**Spiegelverkehrt
Opposto al disegno



FORD CODE

WDX16-70-0901R

FORD CODE

FORM

WDX16-70-0901R

As shown in drawing*

WDX16-70-0901L

Opposite to drawing**

CLAMP - HALTESTÜCK - STAFFA



Notes

Material: St37

STOCK



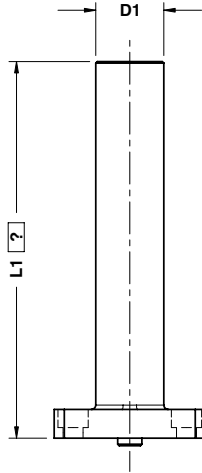
FORD CODE

WDX17-70-0501

FORD CODE

WDX17-70-0501

AIR PIN - DRUCKBOLZEN - CANDELA



L1 max = 350

Notes

Material: CK45 - 800÷1000 N/mm²

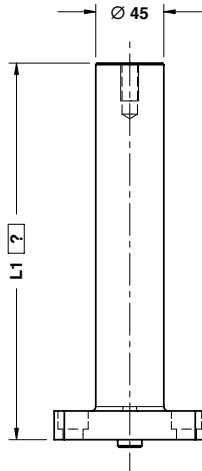


FORD CODE	L1=095
WDX17-60-0245	095

FORD CODE	D1
WDX17-60-0236	36
WDX17-60-0245	45

Standard Ford

AIR PIN - DRUCKBOLZEN - CANDELA



L1 max = 350

Notes

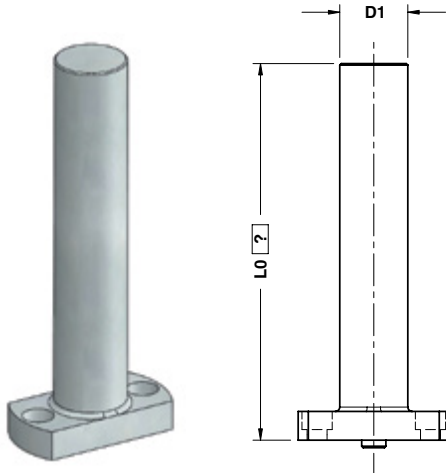
Material: CK45 - 800÷1000 N/mm²



FORD CODE	L1=095
WDX17-60-0345	095

FORD CODE	D1
WDX17-60-0345	45

AIR PIN - DRUCKBOLZEN - CANDELA



L0 max = 360

Notes

Material: CK45 - 800÷1000 N/mm²

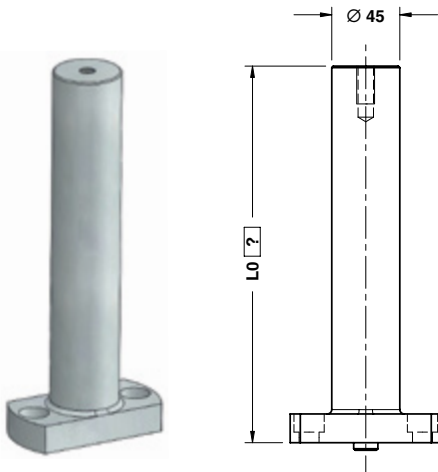
Only for replacement
Nur für Reparatur
Solo per riparazione



FORD CODE	L0=345
WDX17-70-0736250	L0345

FORD CODE	D1	L0
WDX17-70-0736175	36	30÷175
WDX17-70-0736250	36	176÷250
WDX17-70-0736360	36	251÷360
WDX17-70-0745175	45	30÷175
WDX17-70-0745250	45	176÷250
WDX17-70-0745360	45	251÷360

AIR PIN - DRUCKBOLZEN - CANDELA



L0 max = 360

Notes

Material: CK45 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione



FORD CODE	L0=345
WDX17-70-0845250	L0345

FORD CODE	L0
WDX17-70-0845175	30÷175
WDX17-70-0845250	176÷250
WDX17-70-0845360	251÷360

WDX19-70

OMCR

BRACKET - BÜGEL - STAFFA



WDX19-70-0701



WDX19-70-0702



WDX19-70-0703

STOCK

Notes

Material: Si37

Only for replacement
Nur für Reparatur
Solo per riparazione



FORD CODE

WDX19-70-0702

FORD CODE

WDX19-70-0701

WDX19-70-0702

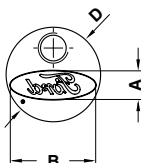
WDX19-70-0703

Standard Ford

WDX20-65

OMCR

TRADEMARK STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



Notes

Material: X155CrVMo12

HRC: 60÷62

STOCK



FORD CODE

WDX20-65-0313

FORD CODE

A

B

D

WDX20-65-0310

2.2

6

10

WDX20-65-0313

3.6

10

13

WDX20-65-0325

7.3

20

25

WDX20-65

OMCR

VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



Notes

Material: X210Cr12 - **HRC:** 60÷62

STOCK



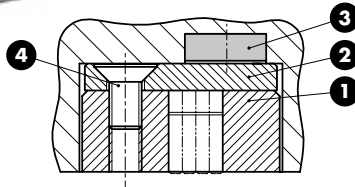
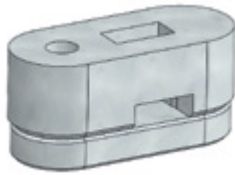
FORD CODE

WDX20-65-0601

FORD CODE

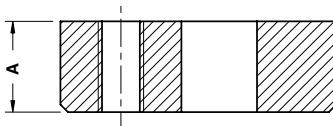
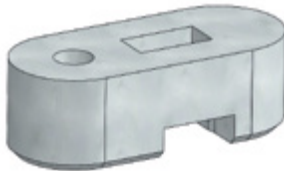
WDX20-65-0601

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI



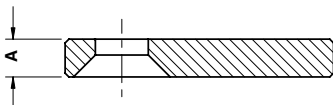
Notes	
1	WDX20-66-02110/02119
2	WDX20-66-02210/02219
3	Magnet Ø15x5 - Force=40N
4	M6x12 DIN EN ISO 10642
ORDER EXAMPLE	FORD CODE
	WDX20-66-0119-A
FORD CODE	
WDX20-66-0110-A	
WDX20-66-0119-A	

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI



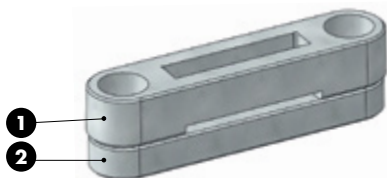
Notes	
Material: 90MnV8Ku - HRC: 60÷62	
STOCK	
ORDER EXAMPLE	FORD CODE
	WDX20-66-02119
FORD CODE	
	A
WDX20-66-02110	15
WDX20-66-02119	12

BACKING PLATE - DRUCKPLATTE - DISTANZIALE



Notes	
Material: 90MnV8Ku - HRC: 60÷62	
STOCK	
ORDER EXAMPLE	FORD CODE
	WDX20-66-02219
FORD CODE	
	A
WDX20-66-02210	5
WDX20-66-02219	7.7

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI

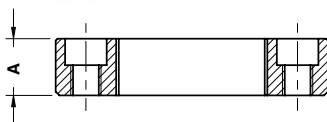


Notes	
1	WDX20-66-03112/03115
2	WDX20-66-03205/03208

	FORD CODE
	WDX20-66-03220-A
FORD CODE	
WDX20-66-03120-A	
WDX20-66-03220-A	

Standard Ford

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI

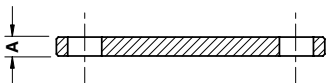


Notes	
Material: 90MnV8Ku - HRC: 60÷62	



	FORD CODE
	WDX20-66-03115
FORD CODE	
A	
WDX20-66-03112	12
WDX20-66-03115	15

BACKING PLATE - DRUCKPLATTE - DISTANZIALE



Notes	
Material: 90MnV8Ku - HRC: 60÷62	



	FORD CODE
	WDX20-66-03208
FORD CODE	
A	
WDX20-66-03205	5
WDX20-66-03208	7.7

VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE

Notes

Material: X210Cr12 - **HRC:** 60-62

Only for replacement

Nur für Reparatur

Solo per riparazione

STOCK



FORD CODE

WDX20-70-0101

FORD CODE

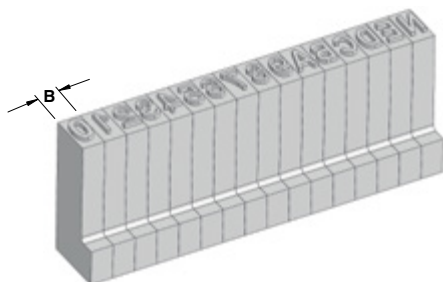
WDX20-70-0101

STAMPS SET - STEMPELSATZ - SET PUNZONI

Notes

Material: X155CrVMo121 - **HRC:** 60-62

STOCK



FORD ASSEMBLY CODE

**WDX20-70-0250

** Stamps set for date only
Stempelsatz nur für das Datum
Set di punzoni solo per date

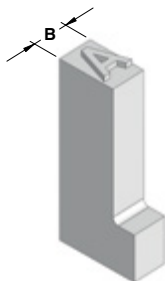
FORD ASSEMBLY N°	FORD CODE	Amount	B	Stamp	FORD ASSEMBLY N°	FORD CODE	Amount	B	Stamp
**WDX20-70-0250	WDX20-70-0200	2	2,5	0	**WDX20-70-0250	WDX20-70-0208	2	2,5	8
	WDX20-70-0201	3	2,5	1		WDX20-70-0209	2	2,5	9
	WDX20-70-0202	3	2,5	2		WDX20-70-0251	1	2,5	A
	WDX20-70-0203	2	2,5	3		WDX20-70-0252	1	2,5	B
	WDX20-70-0204	2	2,5	4		WDX20-70-0253	1	2,5	C
	WDX20-70-0205	2	2,5	5		WDX20-70-0254	2	2,5	D
	WDX20-70-0206	2	2,5	6		WDX20-70-0255	1	2,5	E
WDX20-70-0207	2	2,5	7	WDX20-70-0256	1	2,5	N		

STAMPS - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: X155CrMo121 - **HRC:** 60±62

STOCK



FORD CODE

WDX20-70-0201

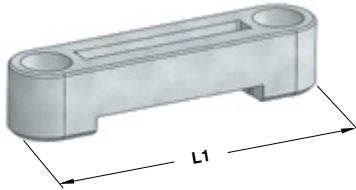
* Use only for separate letter stamps
 nur zum Einsatz für Stempel einzelner Buchstaben
 Da usare solo per punzoni di lettere singole

FORD CODE	B	Stamp	FORD CODE	B	Stamp	FORD CODE	B	Stamp
WDX20-70-0200	2,5	0	WDX20-70-0217	3,0	E	WDX20-70-0234	2,5	V
WDX20-70-0201	2,5	1	WDX20-70-0218	2,5	F	WDX20-70-0235	3,5	W
WDX20-70-0202	2,5	2	WDX20-70-0219	3,0	G	WDX20-70-0236	2,5	X
WDX20-70-0203	2,5	3	WDX20-70-0220	3,0	H	WDX20-70-0237	2,5	Y
WDX20-70-0204	2,5	4	WDX20-70-0221	2,5	I	WDX20-70-0238	2,5	Z
WDX20-70-0205	2,5	5	WDX20-70-0222	2,5	J	WDX20-70-0239	1,5	-
WDX20-70-0206	2,5	6	WDX20-70-0223	3,0	K	WDX20-70-0240	1,5	=
WDX20-70-0207	2,5	7	WDX20-70-0224	2,5	L	WDX20-70-0241	1,5	≡
WDX20-70-0208	2,5	8	WDX20-70-0225	3,5	M	WDX20-70-0242	0,5	FILLER
WDX20-70-0209	2,5	9	WDX20-70-0226	3,0	N	WDX20-70-0243	1,0	FILLER
WDX20-70-0210	1,5	FILLER	WDX20-70-0227	3,5	½	* WDX20-70-0251	2,5	A
WDX20-70-0211	2,0	FILLER	WDX20-70-0228	3,0	P	* WDX20-70-0252	2,5	B
WDX20-70-0212	2,5	FILLER	WDX20-70-0229	3,0	Q	* WDX20-70-0253	2,5	C
WDX20-70-0213	3,0	A	WDX20-70-0230	3,0	R	* WDX20-70-0254	2,5	D
WDX20-70-0214	3,0	B	WDX20-70-0231	3,0	S	* WDX20-70-0255	2,5	E
WDX20-70-0215	3,0	C	WDX20-70-0232	2,5	T	* WDX20-70-0256	2,5	N
WDX20-70-0216	3,0	D	WDX20-70-0233	3,0	U			

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI



FORM A



FORM B

Notes

Material: X155CrVMo12
HRC: 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK



FORD CODE

WDX20-70-0333

FORD CODE

FORM

L1

WDX20-70-0330

A

30

WDX20-70-0333

A

32,5

WDX20-70-0352

B

52

WDX20-70-0372

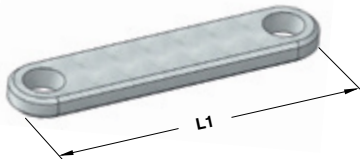
B

72

BACKING PLATE - DRUCKPLATTE - DISTANZIALE



FORM A



FORM B

Notes

Material: 90MnV8KU - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK



FORD CODE

WDX20-70-0432

FORD CODE

FORM

L1

WDX20-70-0430

A

30

WDX20-70-0432

A

32

WDX20-70-0452

B

52

WDX20-70-0472

B

72

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

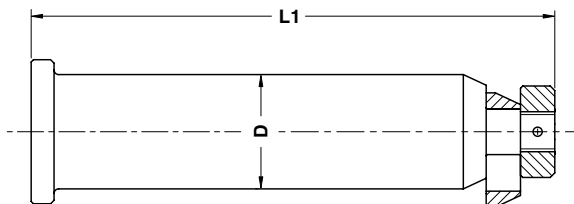
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: 42CrMo4



Standard Ford

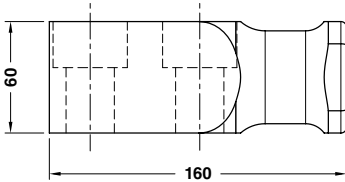
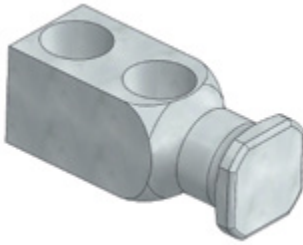


FORD CODE

WDX22-60-0150

FORD CODE	Max load (kg)	Max die weight (kg)	D	L1
WDX22-60-0135	1500	3000	35	165
WDX22-60-0150	5000	10000	50	230
WDX22-60-0163	20000	40000	63	320
WDX22-60-0180	30000	60000	80	370

LIFTING BRACKET - TRAGZAPFEN - STAFFA DI SOLLEVAMENTO



STOCK



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

Material: CK45 - 700÷800 N/mm²

Screws not included

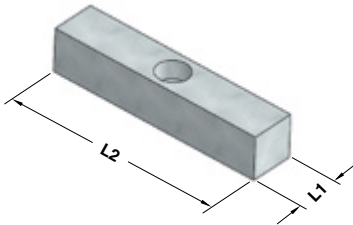


FORD CODE

WDX22-70-0501

FORD CODE	Max load (kg)	Max die weight (kg)
WDX22-70-0501	5000	10000

STANDARD KEY - PASSFEDER - CHIAVETTA



Notes

Material: CK45

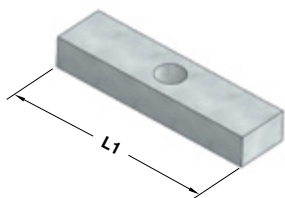


FORD CODE

WDX30-60-0125180

FORD CODE	L1	L2	Holes
WDX30-60-0125125	25	125	1
WDX30-60-0125180	25	180	2
WDX30-60-0130125	30	125	1
WDX30-60-0130180	30	180	2

STANDARD KEY - PASSFEDER - CHIAVETTA



Notes

Material: CK45

STOCK



FORD CODE

WDX30-60-02125

FORD CODE

L1

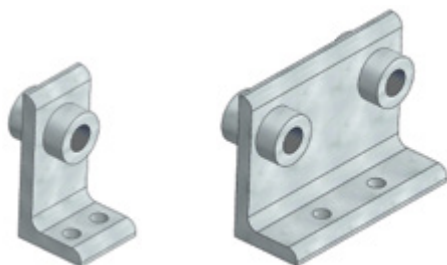
WDX30-60-02080

80

WDX30-60-02125

125

AIR COUPLING BRACKET - LUFTANSCHLUSSBOCK - SUPPORTO INNESTI RAPIDI



WDX35-70-1401

WDX35-70-1502

Notes

Material: Si37

STOCK



FORD CODE

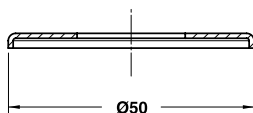
WDX35-70-1502

FORD CODE

WDX35-70-1401

WDX35-70-1502

COLOR MARK AIR CONNECTION - FARBIGE SCHEIBE - COPERCHIO COLORATO



Notes

Material: Si37

STOCK



FORD CODE

WDX35-70-1612

FORD CODE	Color designation	Paint number	FORD CODE	Color designation	Paint number	FORD CODE	Color designation	Paint number
WDX35-70-1611	Flamed red	RAL 3000	WDX35-70-1631	Jet black	RAL 9005	WDX35-70-1652	Deep orange	RAL 2011
WDX35-70-1612	Zinc yellow	RAL 1018	WDX35-70-1632	Gray white	RAL 9002	WDX35-70-1661	Iron grey	RAL 7011
WDX35-70-1621	Azure blue	RAL 5009	WDX35-70-1641	Clay brown	RAL 8003	WDX35-70-1662	Light pink	RAL 3015
WDX35-70-1622	Pastel green	RAL 6019	WDX35-70-1651	Patina green	RAL 6000			



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OMCR®




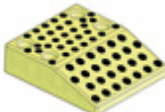







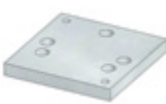

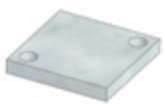






STANDARD DIE COMPONENTS





















STANDARD

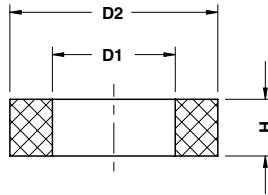
Mercedes-Benz

B8 0110 100 008 804	B8 0110 100 008 805	B8 0110 100 008 806	B8 0111 131 008 812	B8 0111 131 008 812
Elastomer Washer Daempfungsscheibe Rondella in elastomero	Washer Scheibe Rondella	Washer Scheibe Rondella	Key Passfeder Chiavetta	Key Passfeder Chiavetta
305	305	306	306	307
B8 0111 131 008 814	B8 0111 431 008 801	B8 0161 121 008 802	B8 0162 410 008 801	B8 0441 123 408 802
Spacer Abstimmplatte Distanziale	Round retainer for proximity sensor Halteplatte rund für Näherungsschalter Staffa per sensore	Toe clamp Haltestück Ritegno	Bracket for lifting pin Bügel für Tragbolzen Staffa per perno di sollevamento	Bush self-lubricating DIN 9834 Führungsbuchse DIN 9834 Boccola autolubrificante DIN 9834
307	308	308	309	309
B8 0301 231 108 801	B8 0450 200 009 001	B8 0450 200 009 001	B8 0450 200 009 001	B8 0450 200 009 001
Bush for lifting pin Buchse für Tragbolzen Boccola per perno di sollevamento	Guide post Führungssäule Colonna guida	Guide Post Führungssäule Colonna Guida	Guide Post Führungssäule Colonna Guida	Guide Post Führungssäule Colonna Guida
310	311	312	313	314
B8 0460 219 008 801	B8 0460 231 009 002	B8 0460 231 008 801	B8 0460 231 009 003	B8 0460 850 000 101
Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida	Locating block Fangbacke Tassello di centraggio
315	316	317	318	319

B8 0461 131 000 101	B8 0461 110 000 101	B8 0467 000 009 001	B8 0467 000 009 001	B8 0467 111 000 101
				
"V" driver Prismenführung Guida a "V"	"V" driver Prismenführung Guida a "V"	Cam dwell Überlaufkeile Cuneo	Cam dwell Überlaufkeile Cuneo	Locating block Fangbacke Tassello di centraggio
320	320	321	322	323
B8 0541 000 009 001	B8 0541 000 009 003	B8 0541 000 009 005	B8 0541 000 009 005	B8 0541 000 009 007
				
Gage Einweiser Riferimento	Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore	Gage Einweiser Riferimento	Gage hardened Einweiser gehärtet Riferimento indurito	Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore
323	324	324	325	325
B8 0550 100 008 801	B8 0561 131 008 801	B8 0561 131 008 802	B8 0561 131 008 803	B8 0561 152 000 001
				
Spacer Distanzscheibe Distanziale	Distance plate Abstimscheibe Distanziale	Distance plate Abstimscheibe Distanziale	Backing plate Distanzkappe Reazione per cilindro	Cylinder connection plate Zylinderanschlussplatte Piastra di collegamento cilindri
326	326	327	327	328
B8 0602 104 008 803	B8 0602 321 008 801	B8 0604 100 001 102	B8 0604 100 008 801	B8 0604 100 008 802
				
Locating pin Zentrierbolzen Centraggio	Locating pin Zentrierbolzen Perno di centraggio	Spring pin Aufnahmebolzen Perno per molla	Locating cone Zentrierzapfen Cono di centraggio	Locating cone Zentrierzapfen Cono di centraggio
328	329	329	330	330

B8 0624 108 800 002	B8 0624 108 800 001	B8 1001 110 008 801	B8 1013 110 008 801	B8 1013 110 008 802
				
Locating cone Zentrierzapfen Cono di centraggio	Locating cone Zentrierzapfen Cono di centraggio	Spacer Abstimmsschraube Distanziale	Retainer bolt Haltebolzen Tirante	Collar Screw Schulter Passschraube Vite con colletto
331	331	332	332	333
B8 1013 310 008 802	B8 1087 100 000 001	B8 1240 300 009 001	B8 2002 231 009 001	B8 2002 310 008 801
				
Retainer bolt Haltebolzen Tirante	Post ring Sprengring Anello per colonna	Lifting bracket VDI 3366 Tragzapfen VDI 3366 Staffa di sollevamento VDI 3366	Lifting Pin Tragbolzen mit Fallringsicherung Perno di sollevamento	Retainer bolt Haltebolzen Tirante
334	335	336	337	338
B8 2002 421 008 802	B8 2002 521 008 801	B8 2002 621 008 802	B8 2002 731 000 001	B8 7007 000 008 808
				
Pin Druckbolzen Perno	Pin Ankerbolzen Perno	Pad retainer pin Steckbolzen Perno di arresto	Air pin Druckbolzen Candela	Coil guide roller Führungsrolle Guida nastro
339	339	340	340	341
B8 7007 000 008 809	B8 7007 000 008 810	B8 7466 100 009 001		
				
Coil guide roller Führungsrolle Guida nastro	Coil guide roller Führungsrolle Guida nastro	Cam roller Rollenbock Supporto con rullo		
341	342	342		

ELASTOMER WASHER - DAEMPfungSSCHEIBE - RONDELLA IN ELASTOMERO



Notes

Material: Elastomer 92 SH
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

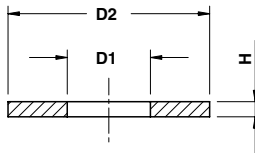
STOCK

ORDER EXAMPLE	MERCEDES-BENZ CODE
	B8 0110 0332828

MERCEDES-BENZ CODE	D1	D2	H
B8 0110 0332827	17	34	8
B8 0110 0332828	21	47	8
B8 0110 0332829	32,5	55	15
B8 0110 0373385	38,5	63	15

Standard Mercedes-Benz

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK

ORDER EXAMPLE	MERCEDES-BENZ CODE
	B8 0110 0332957

MERCEDES-BENZ CODE	D1	D2	H	MERCEDES-BENZ CODE	D1	D2	H	MERCEDES-BENZ CODE	D1	D2	H
B8 0110 0332956	14	40	6	B8 0110 0332962	17	80	6	B8 0110 0587878	33	60	6
B8 0110 0332957	14	50	6	B8 0110 0332963	17	80	12	B8 0110 0332945	33	80	6
B8 0110 0332958	14	50	8	B8 0110 0332964	21	50	6	B8 0110 0332946	33	100	8
B8 0110 0332959	17	36	4	B8 0110 0332965	21	100	8	B8 0110 0377008	39	100	8
B8 0110 0332960	17	60	6	B8 0110 0332966	21	100	14	B8 0110 0377011	39	110	8
B8 0110 0332961	17	60	10	B8 0110 0332967	21	120	10				

WASHER - SCHEIBE - RONDELLA

Notes

Material: CK45

STOCK



MERCEDES-BENZ CODE

B8 0110 0373388

MERCEDES-BENZ CODE

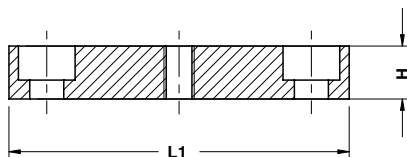
B8 0110 0373388

KEY - PASSFEDER - CHIAVETTA

Notes

Material: CK45

STOCK

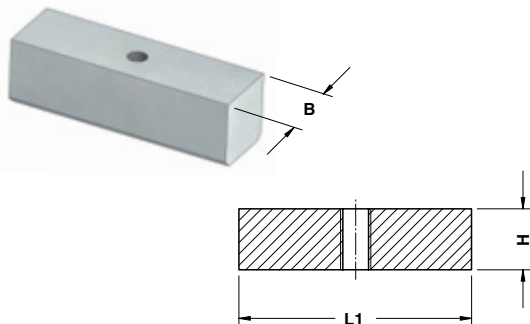


MERCEDES-BENZ CODE

B8 0111 0455442

MERCEDES-BENZ CODE	B	H	L1
B8 0111 0455258	22 n6	14	50
B8 0111 0455442	22 n6	14	90
B8 0111 0455443	22 n6	14	150
B8 0111 0455444	22 n6	14	240
B8 0111 0332858	30 h11	30	100
B8 0111 0370158	30 h11	30	175
B8 0111 0333602	30 h11	30	250
B8 0111 0332733	22 h9	14	50
B8 0111 0332734	22 h9	14	90
B8 0111 0332735	22 h9	14	150
B8 0111 0534548	22 h9	14	240

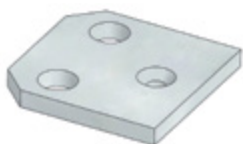
KEY - PASSFEDER - CHIAVETTA



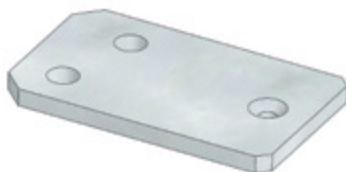
Notes			
Material: CK45			
STOCK	MERCEDES-BENZ CODE		
	B8 0111 1081865		
ORDER EXAMPLE	MERCEDES-BENZ CODE	B	H
	B8 0111 1081863	30 h11	30
	B8 0111 1081865	22 h9	14
	B8 0111 1081867	22 h9	14

Standard Mercedes-Benz

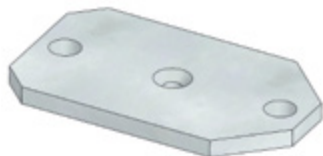
SPACER - ABSTIMMPLATTE - DISTANZIALE



B8 0111 0529571



B8 0111 0529572



B8 0111 0529573



B8 0111 0535157

Notes	
Material: 90MnCrV8	
STOCK	MERCEDES-BENZ CODE
	B8 0111 0529572
ORDER EXAMPLE	MERCEDES-BENZ CODE
	B8 0111 0529571
	B8 0111 0529572
	B8 0111 0529573
	B8 0111 0535157

**ROUND RETAINER FOR PROXIMITY SENSOR
HALTEPLATTE RUND FÜR NÄHERUNGSSCHALTER
STAFFA PER SENSORE**



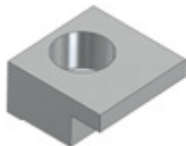
Notes	
Material:	St37

STOCK

	MERCEDES-BENZ CODE
	B8 0111 0277051

MERCEDES-BENZ CODE	
B8 0111 0277051	

TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



Notes	
Material:	CK45

Application example

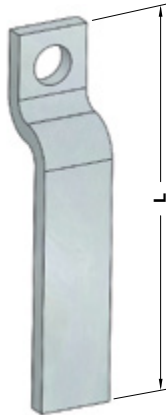
B8 0441 0331931-0331939

STOCK

	MERCEDES-BENZ CODE
	B8 0161 0331941

MERCEDES-BENZ CODE	
D1	
B8 0161 0331940	25÷50
B8 0161 0331941	63÷160

BRACKET FOR LIFTING PIN - BÜGEL FÜR TRAGBOLZEN - STAFFA PER PERNO DI SOLLEVAMENTO



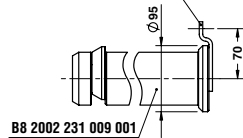
STOCK

Notes

Material: Si37
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

Application example

B8 0162 410 008 801



B8 2002 231 009 001



MERCEDES-BENZ CODE

B8 0162 0530492

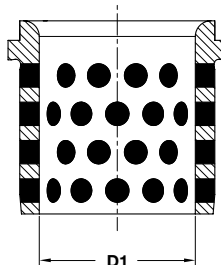
MERCEDES-BENZ CODE

L

B8 0162 0530492	100
B8 0162 1045384	82
B8 0162 1104475	90

Standard
Mercedes-Benz

**BUSH SELF-LUBRICATING DIN 9834
 FÜHRUNGSBUCHSE DIN 9834
 BOCCOLA AUTOLUBRIFICANTE DIN 9834**



Notes

Material: Bronze + Graphite
HB > 190

STOCK



MERCEDES-BENZ CODE

B8 0441 0331932

MERCEDES-BENZ CODE

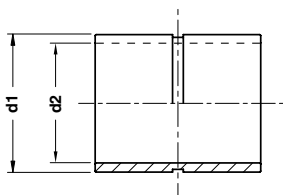
D1

B8 0441 0331931	25
B8 0441 0331932	32
B8 0441 0331933	40
B8 0441 0331934	50
B8 0441 0331935	63
B8 0441 0331936	80
B8 0441 0331937	100
B8 0441 0331938	125
B8 0441 0331939	160

BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO



FORM A



Notes
Material: CK45

STOCK



FORM B



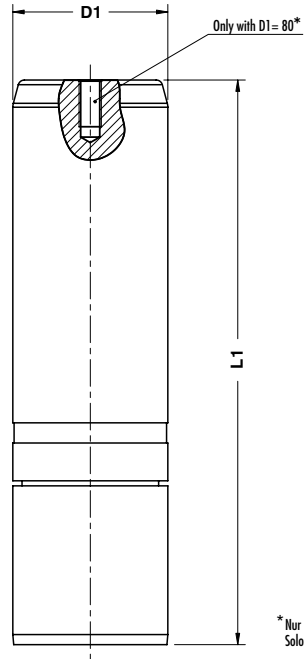
MERCEDES-BENZ CODE
B8 0301 0274833

MERCEDES-BENZ CODE	d1	d2	FORM
B8 0301 0274828	44	34	A
B8 0301 0274833	52	42	A
B8 0301 0274835	62	52	A
B8 0301 0274836	75	65	A
B8 0301 0274838	100	78	B
B8 0301 0274842	105	78	B

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - **HRC:** 60÷62



* Nur mit D1= 80
Solo per D1= 80

Standard
Mercedes-Benz



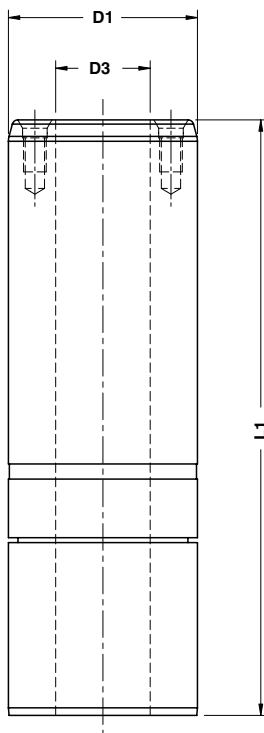
MERCEDES-BENZ CODE
B8 0450 0333406

MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1
B8 0450 0333405	40	160	B8 0450 0333415	50	250	B8 0450 0333425	63	355
B8 0450 0333406	40	180	B8 0450 0333416	50	280	B8 0450 0333426	63	400
B8 0450 0333407	40	200	B8 0450 0333417	50	315	B8 0450 0333427	80	224
B8 0450 0333408	40	224	B8 0450 0333418	50	355	B8 0450 0333428	80	250
B8 0450 0333409	40	250	B8 0450 0333419	63	180	B8 0450 0333429	80	280
B8 0450 0333410	40	280	B8 0450 0333420	63	200	B8 0450 0333430	80	315
B8 0450 0333411	50	160	B8 0450 0333421	63	224	B8 0450 0333431	80	355
B8 0450 0333412	50	180	B8 0450 0333422	63	250	B8 0450 0333432	80	400
B8 0450 0333413	50	200	B8 0450 0333423	63	280			
B8 0450 0333414	50	224	B8 0450 0333424	63	315			

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - **HRC:** 60÷62



MERCEDES-BENZ CODE

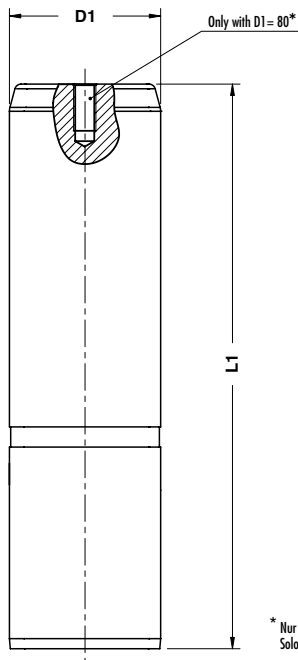
B8 0450 0333434

MERCEDES-BENZ CODE	D1	D3	L1	MERCEDES-BENZ CODE	D1	D3	L1	MERCEDES-BENZ CODE	D1	D3	L1
B8 0450 0333433	100	50	280	B8 0450 0333437	125	65	355	B8 0450 0333440	160	95	450
B8 0450 0333434	100	50	315	B8 0450 0333438	125	65	400	B8 0450 0333441	160	95	500
B8 0450 0333435	100	50	355	B8 0450 0333439	125	65	450	B8 0450 0333442	160	95	560
B8 0450 0333436	100	50	400	B8 0450 0584356	160	95	400				

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - HRC: 60÷62



* Nur mit D1 = 80
Solo per D1 = 80



MERCEDES-BENZ CODE

B8 0450 0528717

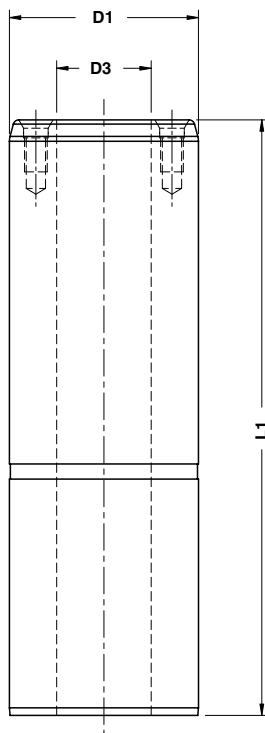
MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1
B8 0450 0528716	25	125	B8 0450 0332526	40	250	B8 0450 0332537	63	250
B8 0450 0528717	25	140	B8 0450 0333401	40	280	B8 0450 0332538	63	280
B8 0450 0528718	25	160	B8 0450 0332527	50	160	B8 0450 0332539	63	315
B8 0450 0528719	25	180	B8 0450 0332528	50	180	B8 0450 0332540	63	355
B8 0450 0531827	32	140	B8 0450 0332529	50	200	B8 0450 0332541	63	400
B8 0450 0332519	32	160	B8 0450 0332530	50	224	B8 0450 0332542	80	224
B8 0450 0332520	32	180	B8 0450 0332531	50	250	B8 0450 0332543	80	250
B8 0450 0332521	32	200	B8 0450 0332532	50	280	B8 0450 0332544	80	280
B8 0450 0531828	40	140	B8 0450 0332533	50	315	B8 0450 0332545	80	315
B8 0450 0332522	40	160	B8 0450 0332639	50	355	B8 0450 0332546	80	355
B8 0450 0332523	40	180	B8 0450 0332534	63	180	B8 0450 0332547	80	400
B8 0450 0332524	40	200	B8 0450 0332535	63	200			
B8 0450 0332525	40	224	B8 0450 0332536	63	224			

Standard
Mercedes-Benz

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5 - **HRC:** 60÷62



MERCEDES-BENZ CODE

B8 0450 0332549

MERCEDES-BENZ CODE	D1	D3	L1	MERCEDES-BENZ CODE	D1	D3	L1	MERCEDES-BENZ CODE	D1	D3	L1
B8 0450 0332548	100	50	280	B8 0450 0332552	125	65	355	B8 0450 0332555	160	95	450
B8 0450 0332549	100	50	315	B8 0450 0332553	125	65	400	B8 0450 0332556	160	95	500
B8 0450 0332550	100	50	355	B8 0450 0332554	125	65	450	B8 0450 0332557	160	95	560
B8 0450 0332551	100	50	400	B8 0450 0584357	160	95	400				

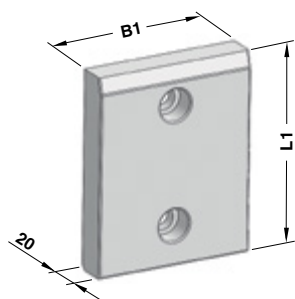
WEAR PLATE STEEL
GLEITPLATTE STAHL
PIASTRA GUIDA IN ACCIAIO

Notes

Material: 16MnCr5
HRC: 60÷62



Standard
Mercedes-Benz



FORM A



FORM B



FORM C

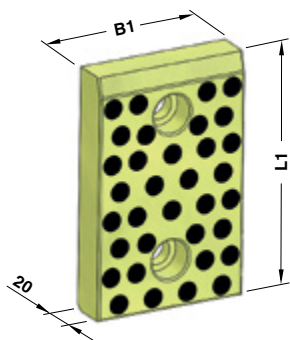
	MERCEDES-BENZ CODE
	B8 0460 0332861

MERCEDES-BENZ CODE	B1	L1	FORM	MERCEDES-BENZ CODE	B1	L1	FORM
B8 0460 0332860	60	80	A	B8 0460 0332875	110	160	A
B8 0460 0332861	60	100	A	B8 0460 0332876	110	200	A
B8 0460 0332862	60	125	A	B8 0460 0332877	135	50	B
B8 0460 0332863	60	160	A	B8 0460 0332878	135	80	B
B8 0460 0332864	60	200	A	B8 0460 0332879	135	100	C
B8 0460 0332865	90	50	B	B8 0460 0332880	135	125	C
B8 0460 0332866	90	80	A	B8 0460 0332881	135	160	C
B8 0460 0332867	90	100	A	B8 0460 0332882	135	200	C
B8 0460 0332868	90	125	A	B8 0460 0332883	170	50	B
B8 0460 0332869	90	160	A	B8 0460 0332884	170	80	B
B8 0460 0332870	90	200	A	B8 0460 0332885	170	100	C
B8 0460 0332871	110	50	B	B8 0460 0332886	170	125	C
B8 0460 0332872	110	80	B	B8 0460 0332887	170	160	C
B8 0460 0332873	110	100	A	B8 0460 0332888	170	200	C
B8 0460 0332874	110	125	A				

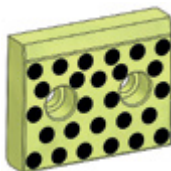
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FETSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

Notes

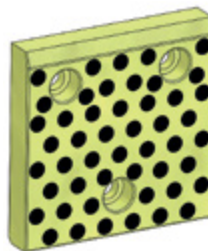
Material: Bronze + Graphite
HB > 190



FORM A



FORM B



FORM C



MERCEDES-BENZ CODE
B8 0460 0332588

MERCEDES-BENZ CODE	B1	L1	FORM	MERCEDES-BENZ CODE	B1	L1	FORM
B8 0460 0332587	50	80	A	B8 0460 0332602	100	160	A
B8 0460 0332588	50	100	A	B8 0460 0332603	100	200	A
B8 0460 0332589	50	125	A	B8 0460 0332604	125	50	B
B8 0460 0332590	50	160	A	B8 0460 0332605	125	80	B
B8 0460 0332591	50	200	A	B8 0460 0332606	125	100	C
B8 0460 0332592	80	50	B	B8 0460 0332607	125	125	C
B8 0460 0332593	80	80	A	B8 0460 0332608	125	160	C
B8 0460 0332594	80	100	A	B8 0460 0332609	125	200	C
B8 0460 0332595	80	125	A	B8 0460 0332610	160	50	B
B8 0460 0332596	80	160	A	B8 0460 0332611	160	80	B
B8 0460 0332597	80	200	A	B8 0460 0332612	160	100	C
B8 0460 0332598	100	50	B	B8 0460 0332613	160	125	C
B8 0460 0332599	100	80	B	B8 0460 0332614	160	160	C
B8 0460 0332600	100	100	A	B8 0460 0332615	160	200	C
B8 0460 0332601	100	125	A				

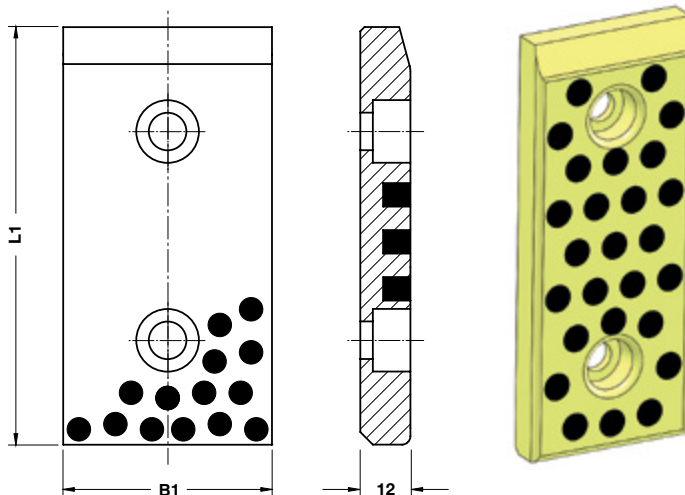
**WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**

Notes

Material: Bronze + Graphite
HB > 190



Standard
Mercedes-Benz



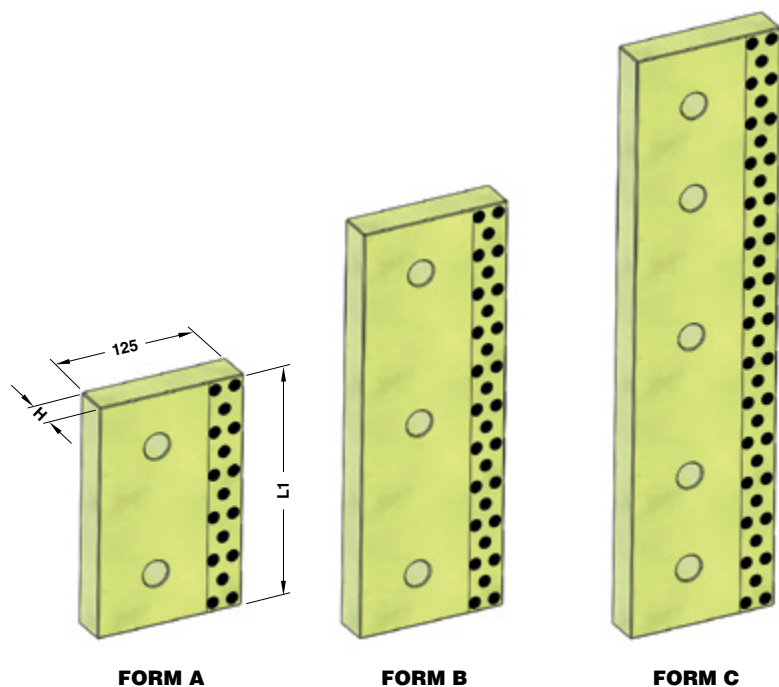
	MERCEDES-BENZ CODE
	B8 0460 0333604

MERCEDES-BENZ CODE	B1	L1	MERCEDES-BENZ CODE	B1	L1
B8 0460 0333603	30	80	B8 0460 0333613	60	80
B8 0460 0333604	30	100	B8 0460 0333614	60	100
B8 0460 0333605	30	125	B8 0460 0333615	60	125
B8 0460 0333606	30	160	B8 0460 0333616	60	160
B8 0460 0333607	30	200	B8 0460 0333617	60	200
B8 0460 0333608	40	80	B8 0460 0789442	80	80
B8 0460 0333609	40	100	B8 0460 0789444	80	100
B8 0460 0333610	40	125	B8 0460 0789446	80	125
B8 0460 0333611	40	160	B8 0460 0789447	80	160
B8 0460 0333612	40	200	B8 0460 0789448	80	200

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**

Notes

Material: Bronze + Graphite
HB > 190



ORDER EXAMPLE 	MERCEDES-BENZ CODE
	B8 0460 0528244

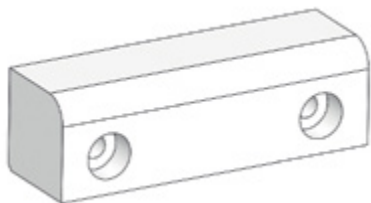
MERCEDES-BENZ CODE	H	L1	FORM	MERCEDES-BENZ CODE	H	L1	FORM	MERCEDES-BENZ CODE	H	L1	FORM
B8 0460 0528243	25	160	A	B8 0460 0528246	25	400	C	B8 0460 0528249	30	250	B
B8 0460 0528244	25	200	A	B8 0460 0528247	30	160	A	B8 0460 0528250	30	400	C
B8 0460 0528245	25	250	B	B8 0460 0528248	30	200	B				

LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO

Notes

Material: Polyamide PA6

STOCK



MERCEDES-BENZ CODE

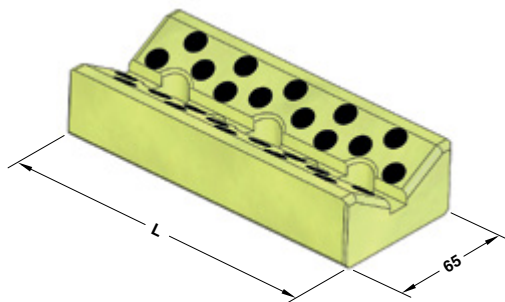
B8 0460 0331968

MERCEDES-BENZ CODE

B8 0460 0331968

Standard
Mercedes-Benz

**"V" DRIVER SELF-LUBRICATING
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
GUIDA A "V" AUTOLUBRIFICANTE**



Notes

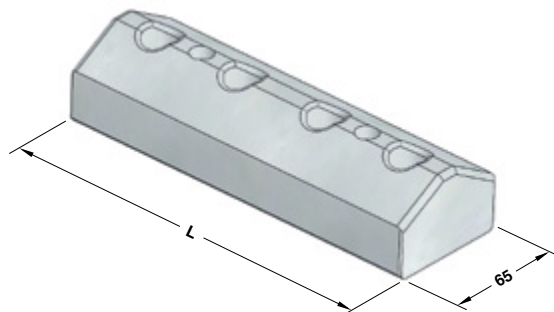
Material: Bronze + Graphite
HB > 190



MERCEDES-BENZ CODE
B8 0461 0330550

MERCEDES-BENZ CODE	L
B8 0461 0330549	150
B8 0461 0330550	200
B8 0461 0330551	250
B8 0461 0330552	300

"V" DRIVER STEEL - PRISMENFÜHRUNG STAHL - GUIDA A "V" IN ACCIAIO



Notes

Material: CK45
HRC: 58÷60



MERCEDES-BENZ CODE
B8 0461 0330554

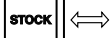
MERCEDES-BENZ CODE	L
B8 0461 0330553	150
B8 0461 0330554	200
B8 0461 0330555	250
B8 0461 0330556	300

CAM DWELL STEEL
UBERLAUFKEILE STAHL
CUNEO IN ACCIAIO

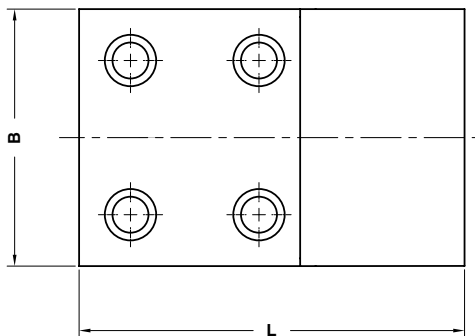
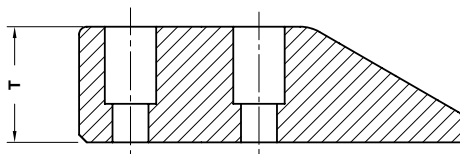


Notes

Material: X155CrVMo121KU
HRC: 58÷62



Standard
Mercedes-Benz

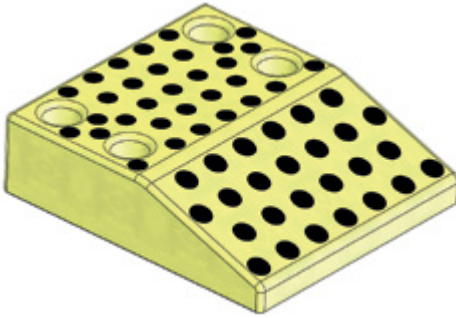


MERCEDES-BENZ CODE

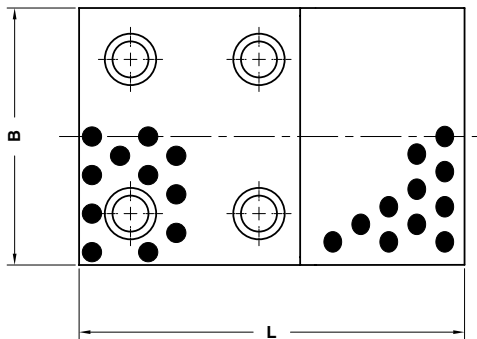
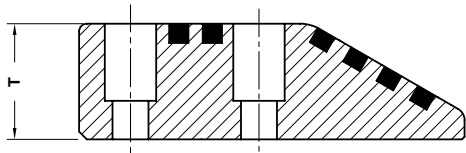
B8 0467 0528448

MERCEDES-BENZ CODE	B	L	T
B8 0467 0528447	100	150	45
B8 0467 0528448	100	170	60
B8 0467 0528449	125	150	45
B8 0467 0528450	125	170	60
B8 0467 0528451	150	150	45
B8 0467 0528452	150	170	60

CAM DWELL WEAR PLATE SELF-LUBRICATING
UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
CUNEO AUTOLUBRIFICANTE



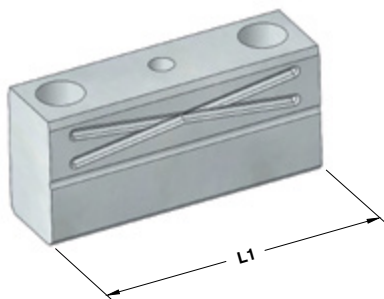
Notes
Material: Bronze + Graphite
HB > 190



	MERCEDES-BENZ CODE
	B8 0467 0528753

MERCEDES-BENZ CODE	B	L	T
B8 0467 0528752	100	150	45
B8 0467 0528753	100	170	60
B8 0467 0528754	125	150	45
B8 0467 0528755	125	170	60
B8 0467 0528756	150	150	45
B8 0467 0528757	150	170	60

LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO



Notes

Material: 16MnCr5
HRC: 60÷62

STOCK



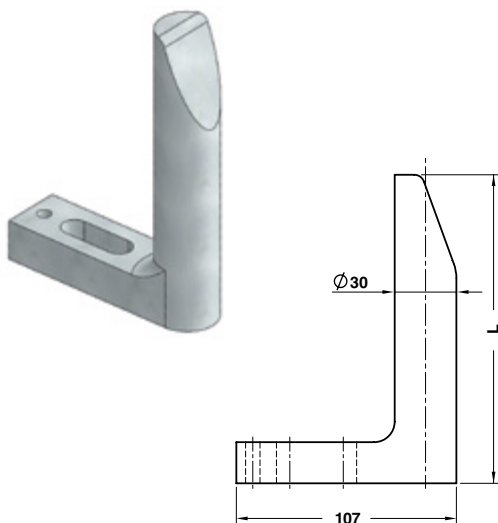
MERCEDES-BENZ CODE

B8 0467 0091639

MERCEDES-BENZ CODE	L1
B8 0467 0091638	100
B8 0467 0091639	160

Standard
Mercedes-Benz

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60

STOCK

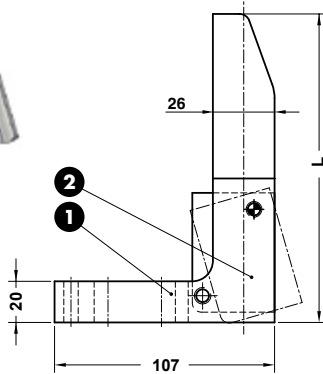
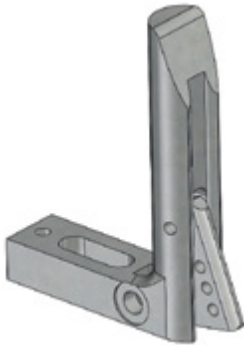


MERCEDES-BENZ CODE

B8 0541 0332635

MERCEDES-BENZ CODE	L
B8 0541 0332634	65
B8 0541 0332635	90
B8 0541 0332636	120
B8 0541 0332637	150
B8 0541 0332638	180
B8 0541 0332641	250

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE



Notes

- 1 Material:** CK60
- 2 Material:** St37 - **HRC:** 58±60

Only for replacement
Nur für Reparatur
Solo per riparazione

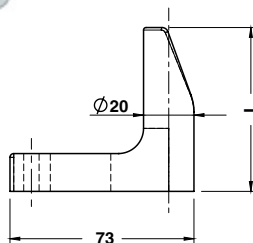
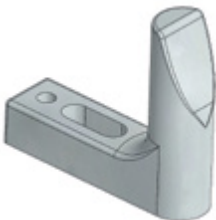


MERCEDES-BENZ CODE

B8 0541 0574962

MERCEDES-BENZ CODE	L
B8 0541 0574961	120
B8 0541 0574962	150
B8 0541 0574963	180
B8 0541 0574964	250

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60

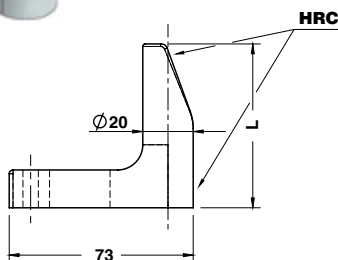
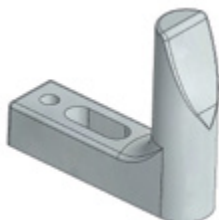


MERCEDES-BENZ CODE

B8 0541 0093838

MERCEDES-BENZ CODE	L
B8 0541 0093836	65
B8 0541 0093838	90

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - HRC: 58÷60



MERCEDES-BENZ CODE

B8 0541 0093840

MERCEDES-BENZ CODE

L

B8 0541 0093839

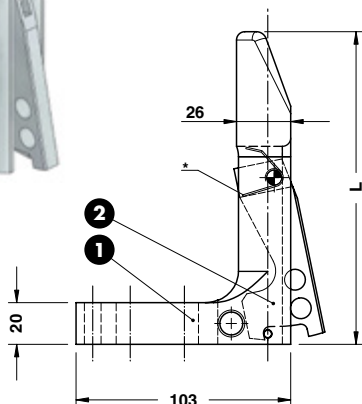
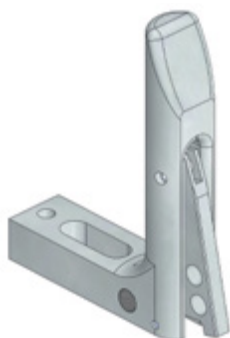
65

B8 0541 0093840

90

Standard
Mercedes-Benz

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE



Notes

- 1 Material:** CK60
- 2 Material:** St37 - HRC: 58÷60



*Spring - Feder - Molla



MERCEDES-BENZ CODE

B8 0541 1049306

MERCEDES-BENZ CODE

L

B8 0541 1049305

120

B8 0541 1049306

150

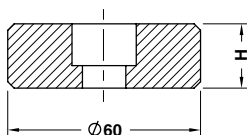
B8 0541 1049307

180

B8 0541 1049308

250

SPACER - DISTANZSCHEIBE - DISTANZIALE



Notes

Material: CK45

STOCK



MERCEDES-BENZ CODE

B8 0550 0333523

MERCEDES-BENZ CODE	H
B8 0550 0333522	20
B8 0550 0333523	30
B8 0550 0528689	40

DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE



Notes

Material: St37

STOCK

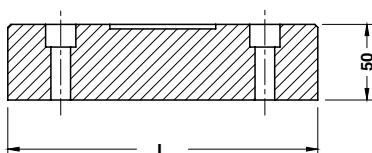
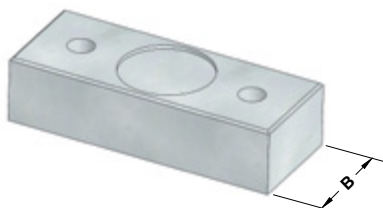


MERCEDES-BENZ CODE

B8 0561 0565393

MERCEDES-BENZ CODE	L0
B8 0561 0331204	10
B8 0561 0565393	11
B8 0561 0565396	12

DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE



Notes

Material: St37
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



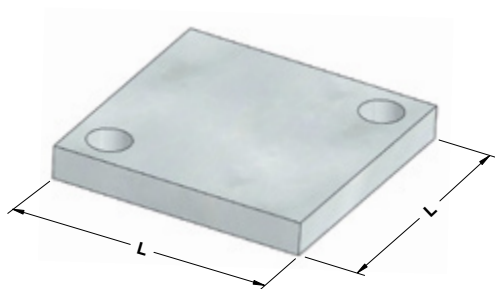
MERCEDES-BENZ CODE

B8 0561 0331960

MERCEDES-BENZ CODE	B	L
B8 0561 0331959	80	205
B8 0561 0331960	100	245
B8 0561 0331961	120	305

Standard Mercedes-Benz

BACKING PLATE - DRUCKPLATTE - REAZIONE PER CILINDRO



Notes

Material: 90MnCrV8
HRC: 49÷52

STOCK

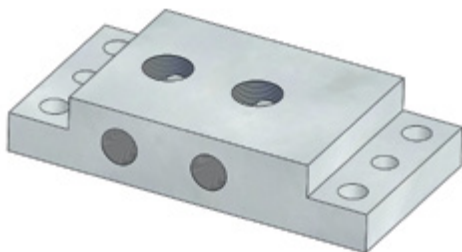


MERCEDES-BENZ CODE

B8 0561 0544586

MERCEDES-BENZ CODE	L
B8 0561 0347055	90
B8 0561 0544586	60
B8 0561 0343592	100

CYLINDER CONNECTION PLATE
ZYLINDERANSCHLUSSPLATTE
PIASTRA DI COLLEGAMENTO CILINDRI

**Notes****Material:** CK45**STOCK****MERCEDES-BENZ CODE**

B8 0561 0544587

MERCEDES-BENZ CODE

B8 0561 0544587

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO

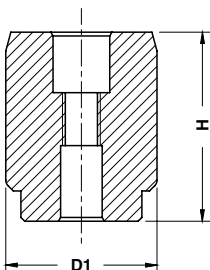
**Notes****Material:** 16MnCr5**HRC:** 60÷62**STOCK****MERCEDES-BENZ CODE**

B8 0602 0533447

MERCEDES-BENZ CODE

B8 0602 0533447

LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO



Notes

Material: 16MnCr5 - **HRC:** 60÷62

STOCK



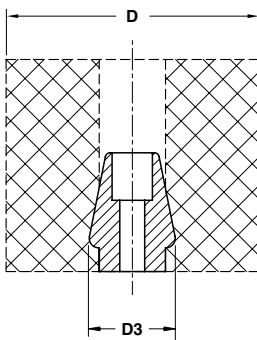
MERCEDES-BENZ CODE

B8 0602 0333315

MERCEDES-BENZ CODE	D1	H
B8 0602 1061335	11	70
B8 0602 0333314	22	50
B8 0602 0333315	25	50
B8 0602 0333316	32	50
B8 0602 1061342	15	70
B8 0602 0333317	40	50
B8 0602 0333318	50	50

Standard Mercedes-Benz

SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLA



Notes

Material: CK45

STOCK



MERCEDES-BENZ CODE

B8 0604 0333553

MERCEDES-BENZ CODE	D	D3
B8 0604 0333552	63	28
B8 0604 0333553	80÷100	32
B8 0604 0333554	125÷140	38

LOCATING CONE - ZENTRIERZAPFEN - CONO DI CENTRAGGIO

STOCK

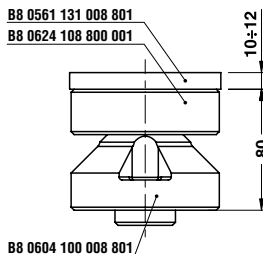
Only for replacement
Nur für Reparatur
Solo per riparazione



Notes

Material: 100Cr6 - **HRC:** 63÷65

Application example



MERCEDES-BENZ CODE

B8 0604 0331202

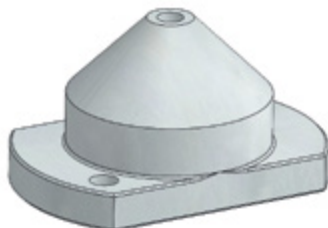
MERCEDES-BENZ CODE

B8 0604 0331202

LOCATING CONE - ZENTRIERZAPFEN - CONO DI CENTRAGGIO



FORM A



FORM B

Notes

Material: 16MnCr5 - **HRC:** 60÷64

STOCK



MERCEDES-BENZ CODE

B8 0604 0345936

MERCEDES-BENZ CODE FORM

B8 0604 0372845 A

B8 0604 0345936 B

LOCATING CONE - KAGELAUFSATZ - CONO DI CENTRAGGIO



Notes

Material: 100Cr6 - **HRC:** 63÷65

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK



MERCEDES-BENZ CODE

B8 0624 0331203

MERCEDES-BENZ CODE

B8 0624 0331203

Standard
Mercedes-Benz

LOCATING CONE - KEGELAUFSATZ - CONO DI CENTRAGGIO

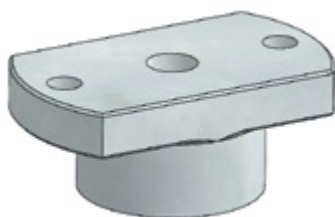


FORM A

Notes

Material: 16MnCr5 - **HRC:** 60÷64

STOCK



FORM B



MERCEDES-BENZ CODE

B8 0624 0345931

MERCEDES-BENZ CODE

FORM

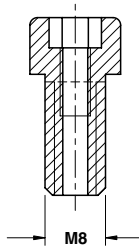
B8 0624 0372844

A

B8 0624 0345931

B

SPACER - ABSTIMMSCHRAUBE - DISTANZIALE



Notes

DIN 912 8.8

STOCK



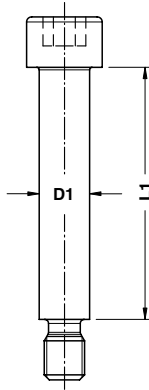
MERCEDES-BENZ CODE

B8 1001 0333539

MERCEDES-BENZ CODE

B8 1001 0333539

TRAVEL STUD - ANSATZSCHRAUBE - TIRANTE



Notes

Material: 42CrMo4

Only for replacement

Nur für Reparatur

Solo per riparazione

STOCK



MERCEDES-BENZ CODE

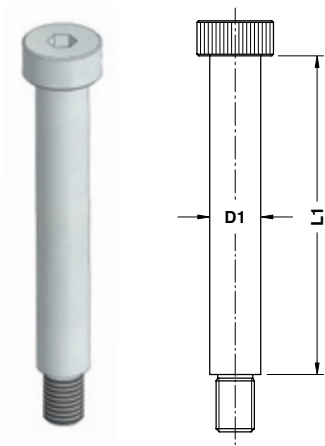
B8 1013 0332832

MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1
B8 1013 0332831	13	10	B8 1013 0332838	16	40	B8 1013 0332845	20	40
B8 1013 0332832	13	20	B8 1013 0332839	16	50	B8 1013 0332846	20	50
B8 1013 0332833	13	30	B8 1013 0332840	16	63	B8 1013 0332847	20	63
B8 1013 0332834	13	40	B8 1013 0332841	16	70	B8 1013 0332848	20	70
B8 1013 0332835	13	50	B8 1013 0332842	16	80	B8 1013 0332849	20	80
B8 1013 0332836	13	63	B8 1013 0332843	16	100	B8 1013 0332850	20	100
B8 1013 0332837	13	80	B8 1013 0332844	16	125	B8 1013 0332851	20	125

COLLAR SCREW - SCHULTER PASSSCHRAUBE - VITE CON COLLETTA

Notes
DIN 898 cl. 12.9

STOCK



Standard
Mercedes-Benz

	MERCEDES-BENZ CODE
	B8 1013 0789539

MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1	MERCEDES-BENZ CODE	D1	L1
B8 1013 0528837	16	70	B8 1013 0528845	20	60	B8 1013 0789540	16	35
B8 1013 0528838	16	80	B8 1013 0528846	20	70	B8 1013 0789542	16	40
B8 1013 0528839	16	90	B8 1013 0528847	20	80	B8 1013 0789543	16	45
B8 1013 0528840	16	100	B8 1013 0528848	20	90	B8 1013 1018326	8	16
B8 1013 0528841	16	120	B8 1013 0528849	20	100	B8 1013 1043713	8	50
B8 1013 0528842	16	60	B8 1013 0528850	20	120	B8 1013 1060773	12	30
B8 1013 0528843	16	50	B8 1013 0571679	16	30			
B8 1013 0528844	20	50	B8 1013 0789539	16	25			

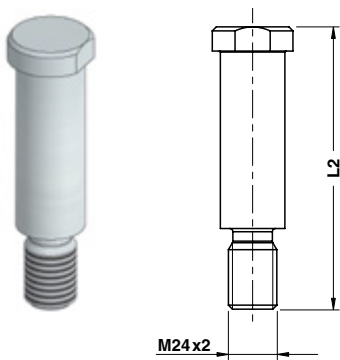
RETAINER BOLT - HALTEBOLZEN - TIRANTE

Notes

Material: 42CrMo4
1000±1200 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

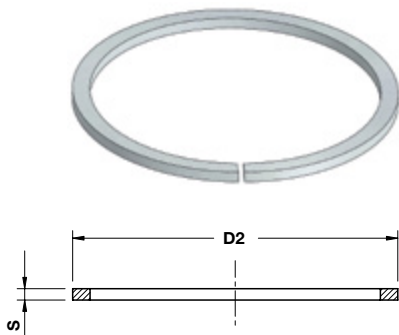


MERCEDES-BENZ CODE

B8 1013 0331113

MERCEDES-BENZ CODE	L2	MERCEDES-BENZ CODE	L2	MERCEDES-BENZ CODE	L2
B8 1013 0331112	140	B8 1013 0331117	240	B8 1013 0331930	120
B8 1013 0331113	160	B8 1013 0331118	260	B8 1013 0534378	320
B8 1013 0331114	180	B8 1013 0331119	280	B8 1013 0534379	340
B8 1013 0331115	200	B8 1013 0331120	300		
B8 1013 0331116	220	B8 1013 0331929	100		

POST RING - SPRENGRING - ANELLO PER COLONNA

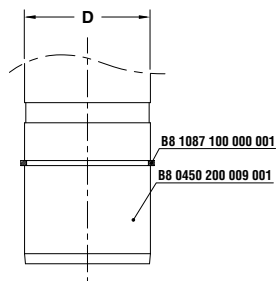


Notes

Material: EN 10270

STOCK

Application example



Standard Mercedes-Benz



MERCEDES-BENZ CODE
B8 1087 0333185

MERCEDES-BENZ CODE	D	D2	S	MERCEDES-BENZ CODE	D	D2	S	MERCEDES-BENZ CODE	D	D2	S
B8 1087 0333184	40	43	1,5	B8 1087 0333187	80	83,2	2	B8 1087 0333190	160	164,3	2,5
B8 1087 0333185	50	53	1,5	B8 1087 0333188	100	103,8	2,5				
B8 1087 0333186	63	66	1,5	B8 1087 0333189	125	128,8	2,5				

LIFTING BRACKET VDI 3366 - TRAGZAPFEN VDI 3366 - STAFFA DI SOLLEVAMENTO VDI 3366

Notes

Material: CK45 - 700÷800 N/mm²
Screws not included



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

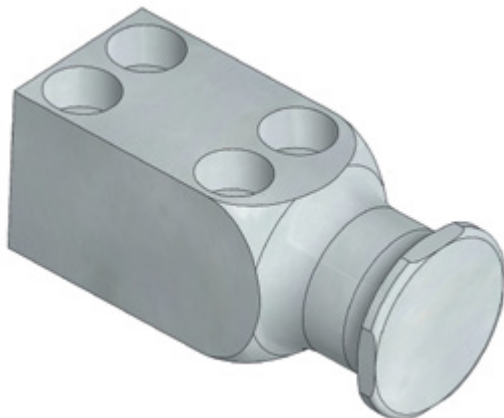
WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.



FORM A



FORM B



MERCEDES-BENZ CODE

B8 1240 0333079

MERCEDES-BENZ CODE	Max load (kg)	Max die weight (kg)	FORM	MERCEDES-BENZ CODE	Max load (kg)	Max die weight (kg)	FORM
B8 1240 0333078	320	640	A	B8 1240 0333083	5000	10000	A
B8 1240 0333079	630	1260	A	B8 1240 0333084	8000	16000	B
B8 1240 0333080	1250	2500	A	B8 1240 0333085	12500	25000	B
B8 1240 0333081	2000	4000	A	B8 1240 0333086	20000	40000	B
B8 1240 0333082	3200	6400	A				

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

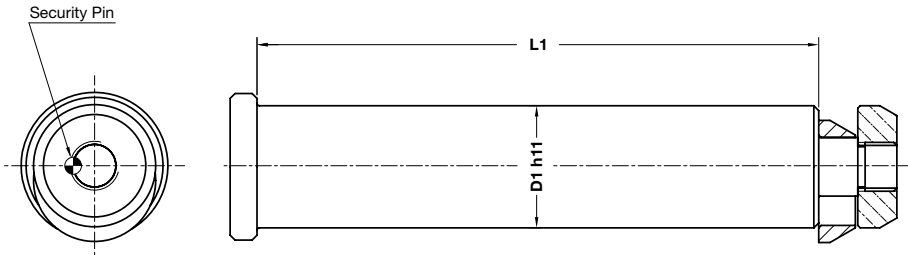
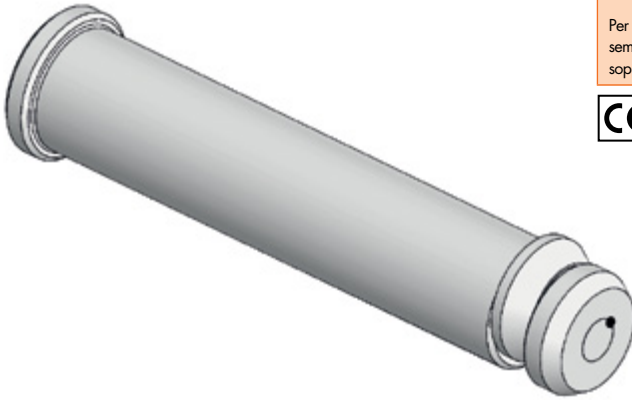
WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Standard Mercedes-Benz



MERCEDES-BENZ CODE

B8 2002 0370694

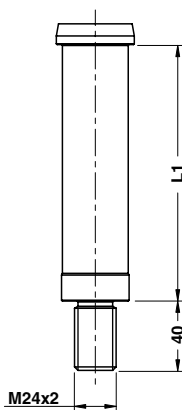
MERCEDES-BENZ CODE	Max load (kg)	Max die weight (kg)	L1	D1	Material
B8 2002 0370693	3200	6400	175	32	CK45
B8 2002 0370694	5000	10000	225	40	CK45
B8 2002 0537341	8000	16000	273	50	CK45
B8 2002 0537342	12500	25000	347	63	CK45
B8 2002 0537343	31500	63000	422	76	42CrMo4

RETAINER BOLT - HALTEBOLZEN - TIRANTE

Notes

Material: 42CrMo4
1000±1200 N/mm²

STOCK

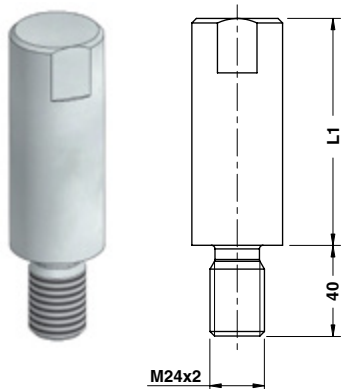


MERCEDES-BENZ CODE

B8 2002 0373390

MERCEDES-BENZ CODE	L1	MERCEDES-BENZ CODE	L1	MERCEDES-BENZ CODE	L1
B8 2002 0373389	48	B8 2002 0373405	148	B8 2002 0373412	248
B8 2002 0373390	68	B8 2002 0373406	168	B8 2002 0373413	268
B8 2002 0373391	88	B8 2002 0373407	188	B8 2002 0373414	288
B8 2002 0373392	108	B8 2002 0373409	208		
B8 2002 0373393	128	B8 2002 0373410	228		

PIN - DRUCKBOLZEN - PERNO



Notes

Material: 42CrMo4
 1000÷1200 N/mm²
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



MERCEDES-BENZ CODE

B8 2002 0528328

MERCEDES-BENZ CODE

L1

B8 2002 0528327	100
B8 2002 0528328	120
B8 2002 0528329	140
B8 2002 0528330	160
B8 2002 0528331	180
B8 2002 0528332	200
B8 2002 0528333	220
B8 2002 0528334	240
B8 2002 0528335	260

Standard
Mercedes-Benz

PIN - ANKERBOLZEN - PERNO



Notes

Material: 42CrMo4

STOCK



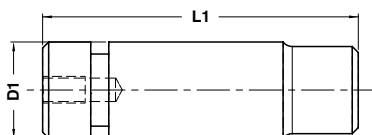
MERCEDES-BENZ CODE

B8 2002 0332361

MERCEDES-BENZ CODE

B8 2002 0332361

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

Material: CK45 - 800÷1000 N/mm²

STOCK

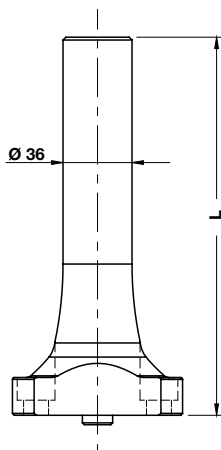


MERCEDES-BENZ CODE

B8 2002 0333932

MERCEDES-BENZ CODE	D1	L1	Max load (kg)
B8 2002 0333400	32	122	2000
B8 2002 0332932	40	139	3200
B8 2002 0332933	50	167	5000

AIR PIN - DRUCKBOLZEN - CANDELA



Notes

Material: CK45 - 800÷1000 N/mm²

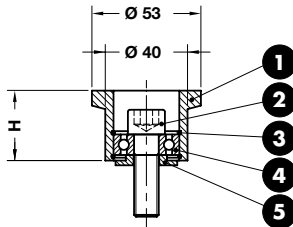


MERCEDES-BENZ CODE

B8 2002 0372406

MERCEDES-BENZ CODE	L
B8 2002 0372405	150
B8 2002 0372406	175
B8 2002 0372407	200
B8 2002 0372408	225
B8 2002 0372409	250

COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO



Notes

- 1 **Material:** 16MnCr5 - HRC: 55÷58
- 2 M12x40 DIN 472
- 3 **Material:** I32 DIN 472
- 4 **Material:** 6201 2Z VA DIN 625
- 5 **Material:** CK45



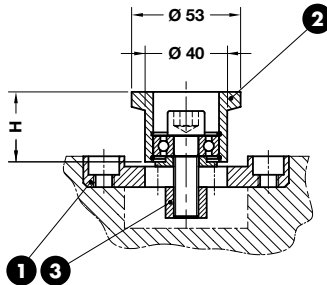
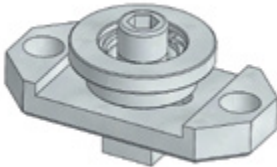
MERCEDES-BENZ CODE

B8 7007 0332935

MERCEDES-BENZ CODE	H
B8 7007 0332934	17
B8 7007 0332935	34
B8 7007 0530090	80

Standard Mercedes-Benz

COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO



Notes

- 1 **Material:** St37
- 2 B8 7007 0332934
B8 7007 0332935
B8 7007 0530090
- 3 **Material:** CK45

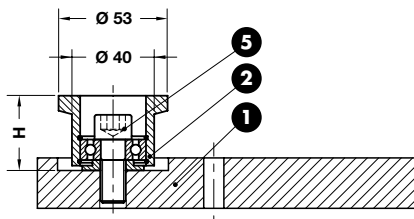
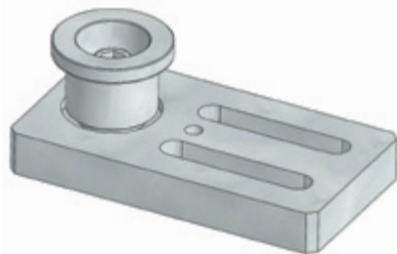


MERCEDES-BENZ CODE

B8 7007 0332632

MERCEDES-BENZ CODE	H
B8 7007 0332631	17
B8 7007 0332632	34
B8 7007 0557701	80

COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO



Notes

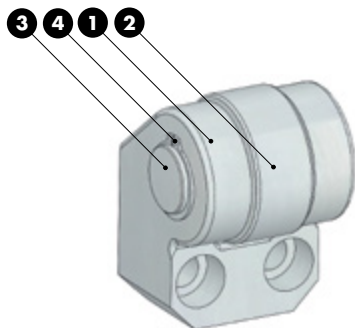
- 1** Material: St37
- 2** B8 7007 0332935
B8 7007 0530090
- 5** M12x25 DIN 472



MERCEDES-BENZ CODE
B8 7007 0530089

MERCEDES-BENZ CODE		H
B8 7007 0530088		34
B8 7007 0530089		80

CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO



Notes

- 1** Material: 42CrMo4
- 2** NUTR 2552
- 3** Material: X210Cr12 - HRC 60±62
- 4** E25 DIN 471



MERCEDES-BENZ CODE
B8 7466 0333319

MERCEDES-BENZ CODE	
B8 7466 0333319	



















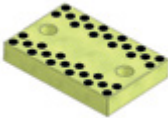
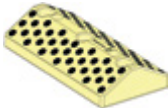


OMCR®

STANDARD DIE COMPONENTS



STANDARD



F3301	F33010001÷0049	F33010038÷0059	F33010060÷0076	F3302
				
	Guide post Führungssäule Colonna guida	Guide post Führungssäule Colonna guida	Guide post Führungssäule Colonna guida	
	351	352	353	
F33020019÷0026	F33020036÷0037	F3303	F33030001÷0040	F33030041÷0070
				
Bush self-lubricating Führungsbuchse Boccola autolubrificante	Toe clamp Haltestück Ritegno		Matrix Retainer Aufnahmeplatte Portamatrice	Distance Plate Druckplatte Distanziale
354	354		355	356
F3304	F3304000÷0138	F33040121÷F33050012	F33040024÷0035	F33040036÷0044
				
	Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357	Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357	Wear plate self-lubricating Gleitplatte bronze mit festschmierstoff Piastra guida autolubrificante	Wear plate self-lubricating Gleitplatte mit festschmierstoff Piastra guida autolubrificante
	357	358	359	360
F33040084÷0164	F33040085÷0112	F33040090÷0093	F33040100÷0111	F33040139÷0147
				
Cam positive return follower Gleitsstück Reazione ganci	Wear plate self-lubricating Gleitplatte bronze mit festschmierstoff Piastra guida autolubrificante	"V" driver VDI 3357 Prismenführung mit festschmierstoff VDI 3357 Guida a "V" VDI 3357	Angular guide Winkelleiste Guida angolare	Cam dwell wear plate steel Überlaufkeile stahl Cuneo in acciaio
360	361	361	362	363

F33040148÷0156	F33040165÷0176	F33040177÷0183	F33040287÷0289	F33040288÷0290
Cam dwell wear plate self-lubricating Überlaufkeile bronze mit festschmierstoff Cuneo autolubrificante	Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida	Positive Return Zwangsrückholer Gancio	Positive Return Zwangsrückholer Gancio
364	365	365	366	366
F33040305÷0320	F3305	F33050018÷0026	F33050069÷0072	F33050081÷0083
Wear plate Gleitplatte Piastra guida		Wear plate Gleitplatte Piastra guida	"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357	"V" driver VDI 3357 Prismenführung mit festschmierstoff VDI 3357 Guida a "V" VDI 3357
367		368	368	369
F33050084÷0086	F33050087	F33050088	F33050089÷0100	F33050101÷0107
"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357	"V" driver Prismenführung Guida a "V"	"V" driver self-lubricating Prismenführung bronze mit festschmierstoff Guida a "V" autolubrificante	Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida
369	370	370	371	371
F3315	F33150011÷0015	F33150037÷0044	F33150045÷0048	F33150060÷0061
	Pad Retainer Steckbolzen Perno di arresto	Aerial Pin Luftbolzen Candela	Air Pin Druckbolzen Candela	Locating Pin Zentrierbolzen Centraggio
	372	372	373	373

F33150087÷0091	F3316	F33160106÷0107	F33160108÷0204	F33160157÷0188
				
Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento		Fixing plate Befestigungsplatte Piastra di fissaggio	Distance plate Abstimmzscheibe Distanziale	Shim plate Ausgleichbleche Piastra di spessore
374		375	375	376
F33160218	F33160230÷0250	F33160226÷0344	F33160345÷0371	F3318
				
Retaining plate Halteplatte Piastra di ritegno	Shim punch retainer Druckplatte Spessore per portapunzione	Block Distanzkappe Reazione per cilindro	Block Distanzkappe Reazione per cilindro	
377	377	378	379	
F33180007÷0012	F33180020÷0021	F3319	F33190003 ÷0038	F33190005÷0026
				
Washer Scheibe Rondella	Distance plate Abstimmzscheibe Distanziale		Locating Cone Kegeldistanz Cono di centraggio	Spacer Distanzstück Distanziale
380	380		381	381
F33190031÷0034	F33190039÷0040	F3320	F33260009÷0033	F3322
				
Bottoming blocks Abstandblock Distanziale	Spacer Distanzstück Distanziale		Key Passfeder Chiavetta	
381	382		383	

F33220332+0343	<p>F3326</p>	F33260004+0397	F33260014+0024	F33260026+0043
				
<p>Roller cam unit Rollenschieber Camma a rullo</p> <p>384</p>		<p>Gage Einweiser Riferimento</p> <p>385</p>	<p>Acceleration cam Schiebervorbeschleunigung Camma di accelerazione</p> <p>385</p>	<p>Guide Aufnahmeschiene Guida</p> <p>386</p>
F33260029	F33260030	F33260032	F33260203+0205	F33260223+0342
				
<p>Disk Einzelteile Disco</p> <p>386</p>	<p>Washer Scheibe Rondella</p> <p>386</p>	<p>Cam roller Rollenbock Supporto con rullo</p> <p>387</p>	<p>Front gage Einlaufanschlag Portasensore</p> <p>387</p>	<p>Slide stop block Schieberanschlag Arresto slitta</p> <p>388</p>
<p>F3328</p>	F33280001	<p>F3329</p>	F33290002	F33290041
				
	<p>Coiler for electrical wires Kabelaufwickler Avvolgitore per cavi elettrici</p> <p>389</p>		<p>Stamp rack pillar Markierstempelkonsole Colonna portatimbri</p> <p>389</p>	<p>Counter-pressure plate Gegendruckplatte Piastrina di reazione</p> <p>389</p>
F33290043+0164	F33290063	F33290068	<p>F3331</p>	F33310014+0022
				
<p>Stamp Buchstabenstempel Marchio</p> <p>390</p>	<p>Stamp Buchstabenstempel Marchio</p> <p>390</p>	<p>Visual locator punch Endkontrollstempel Punzone di visualizzazione</p> <p>391</p>		<p>Gas spring foot mounting Klemmstück Supporto molla a gas</p> <p>391</p>

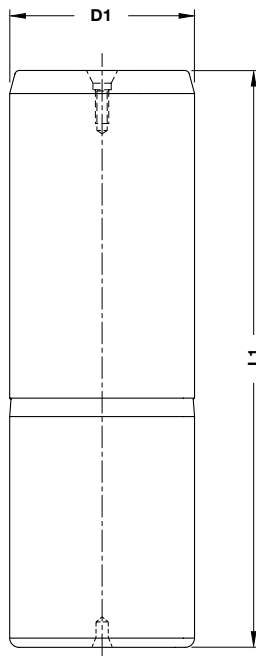
F33310023-0024	F33310029-0036	F3391	F33910001	F33910002
				
Urethane spring retainer Elastomerhalterung Ritegno per elastomero	Spring mount-clamp Federauflage Supporto per molla		Air coupling bracket Luftanschlussbock Supporto innesti rapidi	Air coupling bracket Luftanschlussbock Supporto innesti rapidi
392	392		393	393
F33910003	F33910043	F33910044	F33910110-0115	J06910069-70
				
Air coupling bracket Luftanschlussbock Supporto innesti rapidi	Retainer for stamps Halteplatte Portatimbri	Retainer for stamps Halteplatte Portatimbri	Bush for lifting pin Buchse für Tragbolzen Boccola per perno di sollevamento	Sensor mounting brackets Sensorhalterungen Staffa per sensori
393	394	394	395	395
M16045182-184	M36600070-0073			
				
Shock absorber Halteelement Ammortizzatore	Washer Scheibe Rondella			
396	396			

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



Notes

Material: 16MnCr5
HRC: 60±62



OPEL CODE
F33010002

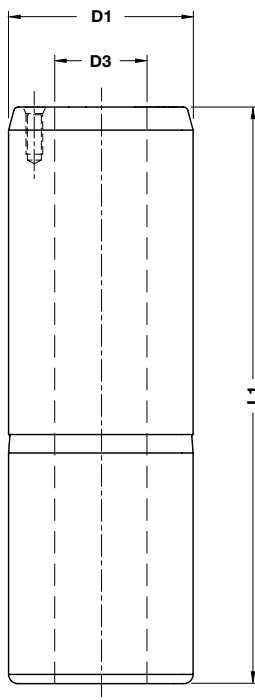
OPEL CODE	D1	L1	OPEL CODE	D1	L1	OPEL CODE	D1	L1
F33010001	25	125	F33010015	40	280	F33010029	63	315
F33010002	25	140	F33010016	50	160	F33010030	63	355
F33010003	25	160	F33010017	50	180	F33010031	63	400
F33010004	25	180	F33010018	50	200	F33010032	80	224
F33010005	32	140	F33010019	50	224	F33010033	80	250
F33010006	32	160	F33010020	50	250	F33010034	80	280
F33010007	32	180	F33010021	50	280	F33010035	80	315
F33010008	32	200	F33010022	50	315	F33010036	80	355
F33010009	40	140	F33010023	50	355	F33010037	80	400
F33010010	40	160	F33010024	63	180	F33010046	63	450
F33010011	40	180	F33010025	63	200	F33010047	63	500
F33010012	40	200	F33010026	63	224	F33010048	80	450
F33010013	40	224	F33010027	63	250	F33010049	80	500
F33010014	40	250	F33010028	63	280			

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5

HRC: 60±62



OPEL CODE

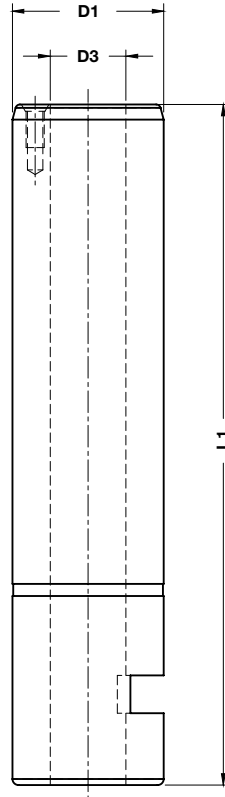
F33010038

OPEL CODE	D1	D3	L1	OPEL CODE	D1	D3	L1
F33010038	100	50	280	F33010051	100	50	500
F33010039	100	50	315	F33010052	100	50	550
F33010040	100	50	355	F33010053	100	50	600
F33010041	100	50	400	F33010054	100	50	650
F33010042	125	65	315	F33010055	125	65	500
F33010043	125	65	355	F33010056	125	65	550
F33010044	125	65	400	F33010057	125	65	600
F33010045	125	65	450	F33010058	125	65	650
F33010050	100	50	450				

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

Notes

Material: 16MnCr5
HRC: 60±62



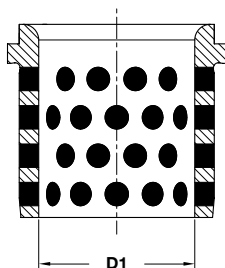
Standard Opel



OPEL CODE
 F33010061

OPEL CODE	D1	D3	L1	OPEL CODE	D1	D3	L1	OPEL CODE	D1	D3	L1
F33010060	100	50	280	F33010066	100	50	550	F33010072	125	65	450
F33010061	100	50	315	F33010067	100	50	600	F33010073	125	65	500
F33010062	100	50	355	F33010068	100	50	650	F33010074	125	65	550
F33010063	100	50	400	F33010069	125	65	315	F33010075	125	65	600
F33010064	100	50	450	F33010070	125	65	355	F33010076	125	65	650
F33010065	100	50	500	F33010071	125	65	400				

BUSH SELF-LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

STOCK



OPEL CODE

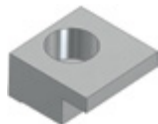
F33020020

OPEL CODE

D1

F33020019	25
F33020020	32
F33020021	40
F33020022	50
F33020023	63
F33020024	80
F33020025	100
F33020026	125

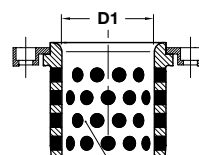
TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



Notes

Material: CK45

Application example



F33020019-F33020026

STOCK



OPEL CODE

F33020037

OPEL CODE

D1

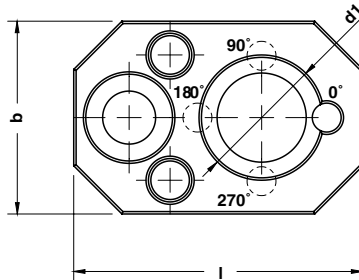
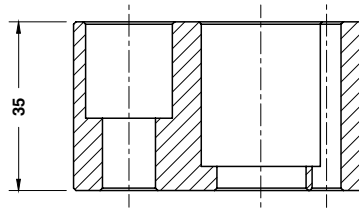
F33020036	25÷50
F33020037	63÷125

MATRIX RETAINER - AUFNAHMEPLATTE - PORTAMATRICE

Notes

Material: CK45

STOCK



Standard Opel

ORDER EXAMPLE	OPEL CODE
	F33030002

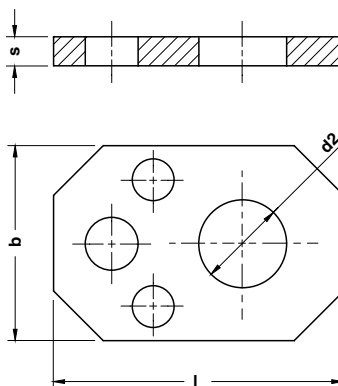
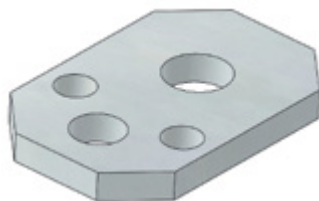
OPEL CODE				b	d1	l
DOWEL PIN LOCATION						
0°	90°	180°	270°			
F33030001	F33030011	F33030021	F33030031	40	10	60
F33030002	F33030012	F33030022	F33030032	40	13	60
F33030003	F33030013	F33030023	F33030033	40	16	60
F33030004	F33030014	F33030024	F33030034	40	20	60
F33030006	F33030016	F33030026	F33030036	40	25	60
F33030007	F33030017	-	F33030037	40	32	60
F33030008	F33030018	F33030028	F33030038	60	38	80
F33030009	F33030019	F33030029	F33030039	60	45	80
F33030010	F33030020	-	F33030040	60	50	80

DISTANCE PLATE - DRUCKPLATTE - DISTANZIALE

Notes

Material: CK45

STOCK



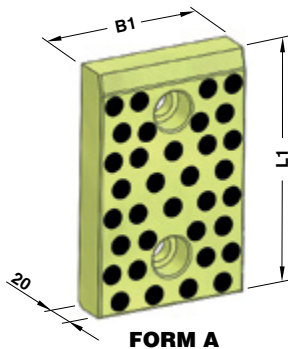
	OPEL CODE
	F33030042

OPEL CODE	b	d2	l	s	OPEL CODE	b	d2	l	s
F33030041	40	6,5	60	2	F33030058	40	19	60	6
F33030042	40	6,5	60	4	F33030059	40	22,5	60	2
F33030043	40	6,5	60	6	F33030060	40	22,5	60	4
F33030044	40	9,5	60	2	F33030061	40	22,5	60	6
F33030045	40	9,5	60	4	F33030062	60	28,5	80	2
F33030046	40	9,5	60	6	F33030063	60	28,5	80	4
F33030047	40	11	60	2	F33030064	60	28,5	80	6
F33030048	40	11	60	4	F33030065	60	37,5	80	2
F33030049	40	11	60	6	F33030066	60	37,5	80	4
F33030050	40	13,5	60	2	F33030067	60	37,5	80	6
F33030051	40	13,5	60	4	F33030068	60	42,5	80	2
F33030052	40	13,5	60	6	F33030069	60	42,5	80	4
F33030056	40	19	60	2	F33030070	60	42,5	80	6
F33030057	40	19	60	4					

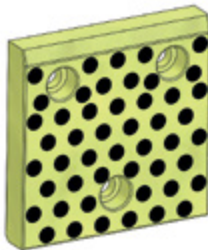
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

Notes

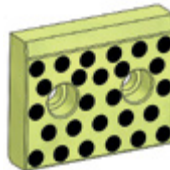
Material: Bronze + Graphite
HB > 190



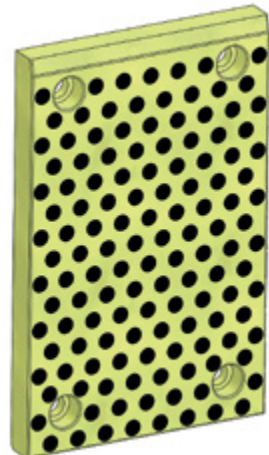
FORM A



FORM B



FORM C



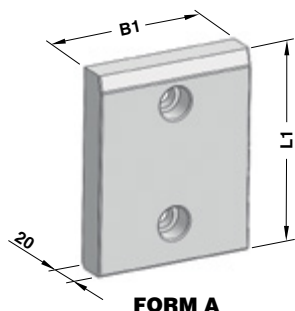
FORM D

	OPEL CODE
	F33040001

* Not in accordance with VDI3357
 Nicht mit Entspricht VDI3357
 Non conforme alla norma VDI3357

OPEL CODE	B1	L1	FORM	OPEL CODE	B1	L1	FORM
F33040000	50	100	A	F33040015	125	100	B
F33040001	50	125	A	F33040016	125	125	B
F33040002	50	160	A	F33040017	125	160	B
F33040003	50	200	A	F33040018	160	100	B
F33040004	80	100	A	F33040019	160	125	B
F33040005	80	125	A	F33040020	160	160	B
F33040006	80	160	A	F33040113*	100	250	D
F33040007	80	200	A	F33040114*	125	200	D
F33040008	100	50	C	F33040115*	160	200	D
F33040009	100	80	C	F33040116*	160	250	D
F33040010	100	100	A	F33040117*	160	300	D
F33040011	100	125	A	F33040118*	200	200	D
F33040012	100	160	A	F33040119*	200	250	D
F33040013	100	200	A	F33040120*	200	300	D
F33040014	125	80	C	F33040138*	125	250	D

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357



FORM A



FORM B



FORM C



FORM D

Notes

Material: 16MnCr5
HRC: 58÷60

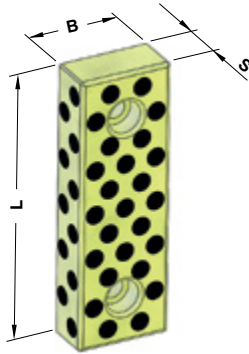


	OPEL CODE
	F33040121

* Not in accordance with VDI3357
 entspricht nicht VDI3357
 Non conforme alla linea guida VDI3357

OPEL CODE	B1	L1	FORM	OPEL CODE	B1	L1	FORM
F33040121	100	50	C	F33040136*	200	250	D
F33040122	100	80	C	F33040137*	200	300	D
F33040123*	100	250	D	F33050000	50	100	A
F33040124	125	80	C	F33050001	50	125	A
F33040125	125	100	B	F33050002	50	160	A
F33040126	125	125	B	F33050003	50	200	A
F33040127*	125	200	D	F33050004	80	100	A
F33040128*	125	250	D	F33050005	80	125	A
F33040129	160	100	B	F33050006	80	160	A
F33040130	160	125	B	F33050007	80	200	A
F33040131	160	160	B	F33050008	100	100	A
F33040132*	160	200	D	F33050009	100	125	A
F33040133*	160	250	D	F33050010	100	160	A
F33040134*	160	300	D	F33050011	100	200	A
F33040135*	200	200	D	F33050012	125	160	A

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



FORM A

Notes

Material: Bronze + Graphite
HB > 190

STOCK



Standard Opel



FORM B



FORM C



FORM D



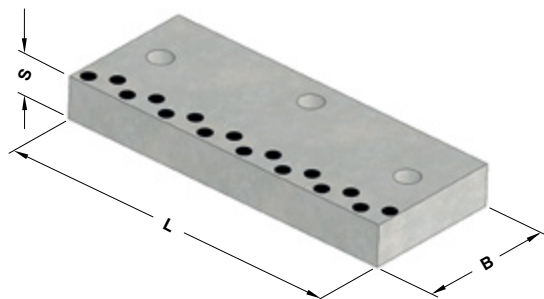
FORM E



ORDER
EXAMPLE
OPEL CODE
F33040025

OPEL CODE	B	L	S	FORM	OPEL CODE	B	L	S	FORM
F33040024	35	100	10	E	F33040030	50	150	25	A
F33040025	35	150	10	E	F33040031	50	200	25	A
F33040026	35	200	10	E	F33040032	50	250	25	B
F33040027	35	250	10	E	F33040033	75	150	25	C
F33040028	35	300	10	E	F33040034	75	200	25	D
F33040029	35	350	10	E	F33040035	75	250	25	D

WEAR PLATE SELF-LUBRICATING GLEITPLATTE MIT FESTSCHMIERSTOFF PIASTRA GUIDA AUTOLUBRIFICANTE



Notes

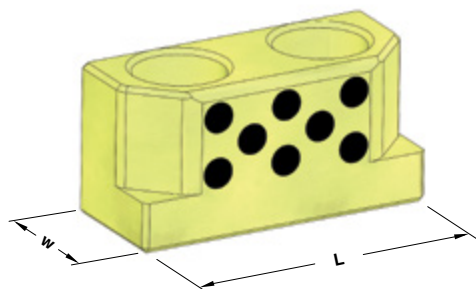
Material: CK45 + Graphite
HRC: 60÷62



OPEL CODE
F33040037

OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33040036	100	160	20	F33040041	125	250	30
F33040037	100	200	20	F33040042	125	300	30
F33040038	100	250	20	F33040043	125	350	30
F33040039	100	300	20	F33040044	125	400	30
F33040040	125	160	30				

CAM POSITIVE RETURN FOLLOWER GLEITSTÜCK REAZIONE GANCI



Notes

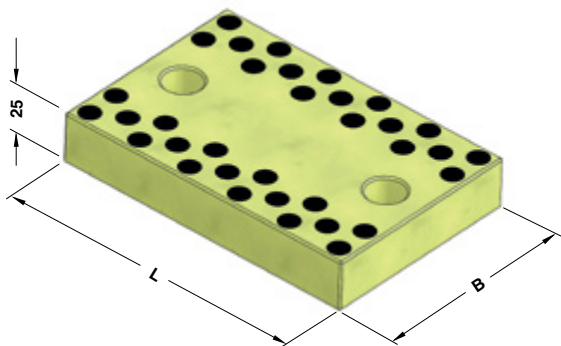
Material: Bronze + Graphite
HB > 190



OPEL CODE
F33040163

OPEL CODE	L	W
F33040084	60	25
F33040163	60	32
F33040164	80	32

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



Notes

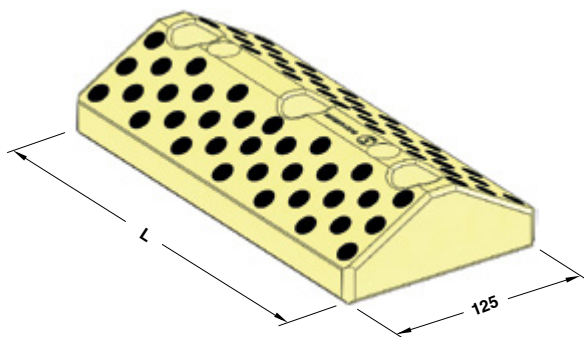
Material: Bronze + Graphite
HB > 190



OPEL CODE
F33040086

OPEL CODE	B	L
F33040085	100	100
F33040086	100	150
F33040112	120	150

**"V" DRIVER SELF-LUBRICATING VDI 3357
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA A "V" AUTOLUBRIFICANTE VDI 3357**



Notes

Material: Bronze + Graphite
HB > 190



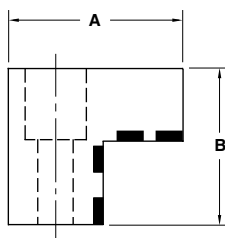
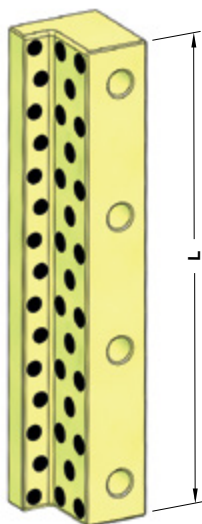
OPEL CODE
F33040091

OPEL CODE	L
F33040090	150
F33040091	200
F33040092	250
F33040093	300

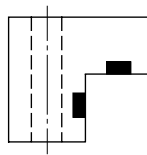
ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

Notes

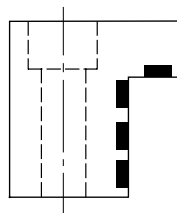
Material: Bronze + Graphite
HB > 190



FORM A



FORM B

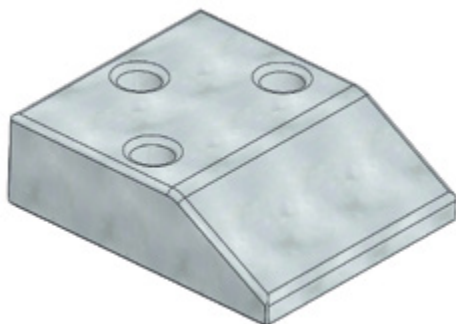


FORM C

ORDER EXAMPLE	OPEL CODE
	F33040101

OPEL CODE	A	B	L	FORM	OPEL CODE	A	B	L	FORM
F33040100	50	45	200	A	F33040106	32	30	150	B
F33040101	50	45	250	A	F33040107	32	30	250	B
F33040102	50	45	300	A	F33040108	32	30	300	B
F33040103	50	45	350	A	F33040109	50	50	200	C
F33040104	50	45	400	A	F33040110	50	50	250	C
F33040105	50	45	500	A	F33040111	50	50	300	C

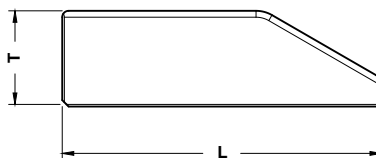
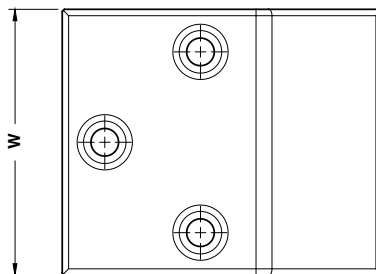
**CAM DWELL WEAR PLATE STEEL
 UBERLAUFKEILE STAHL
 CUNEO IN ACCIAIO**



Notes
Material: 42CrMo4
HRC: 58÷60



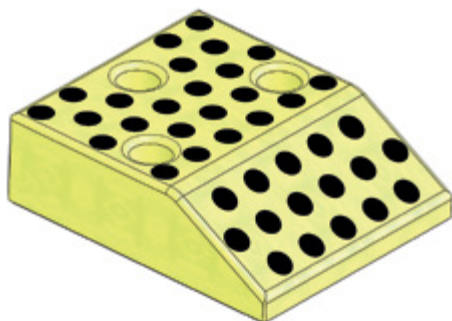
Standard Opel



OPEL CODE
F33040140

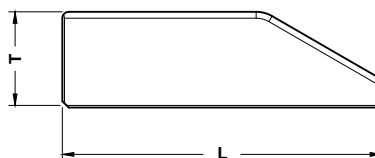
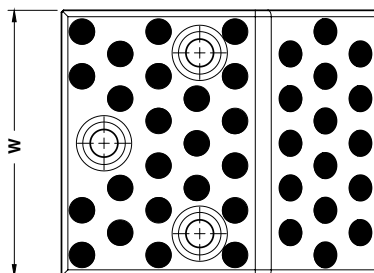
OPEL CODE	L	T	W
F33040139	125	30	100
F33040140	125	30	125
F33040141	125	30	160
F33040142	150	45	100
F33040143	150	45	125
F33040144	150	45	160
F33040145	170	60	100
F33040146	170	60	125
F33040147	170	60	160

CAM DWELL WEAR PLATE SELF-LUBRICATING UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF CUNEO AUTOLUBRIFICANTE



Notes

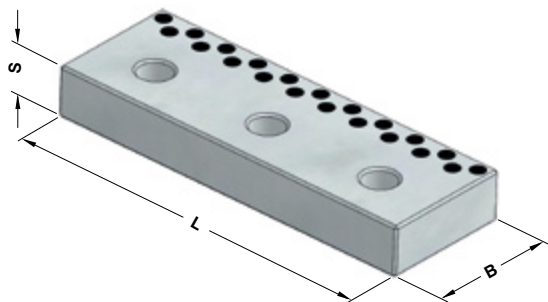
Material: Bronze + Graphite
HB > 190



OPEL CODE
F33040149

OPEL CODE	L	T	W
F33040148	125	30	100
F33040149	125	30	125
F33040150	125	30	160
F33040151	150	45	100
F33040152	150	45	125
F33040153	150	45	160
F33040154	170	60	100
F33040155	170	60	125
F33040156	170	60	160

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

Material: CK45 + Graphite
HRC: 58÷60

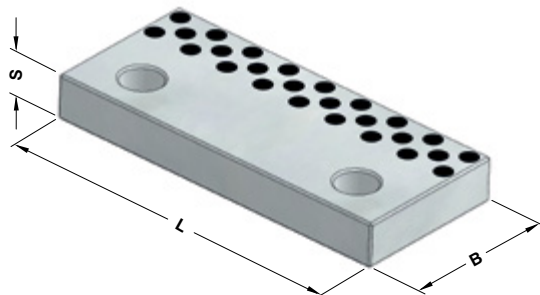


OPEL CODE

F33040166

OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33040165	52	150	20	F33040171	77	150	35
F33040166	52	200	20	F33040172	77	200	35
F33040167	52	250	20	F33040173	77	250	35
F33040168	72	150	30	F33040174	82	150	40
F33040169	72	200	30	F33040175	82	200	40
F33040170	72	250	30	F33040176	82	250	40

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

Material: CK45 + Graphite
HRC: 58÷60

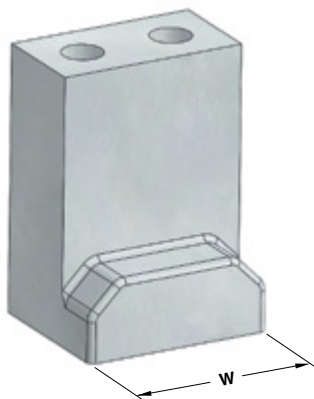


OPEL CODE

F33040178

OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33040177	70	160	25	F33040181	85	240	28
F33040178	70	200	25	F33040182	85	300	28
F33040179	70	240	25	F33040183	85	350	28
F33040180	85	200	28				

POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO



Notes

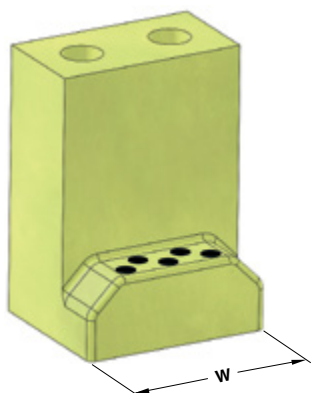
Material: 16MnCr5
HRC: 58÷60



OPEL CODE	
F33040289	

OPEL CODE	W
F33040287	60
F33040289	80

POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO



Notes

Material: Bronze + Graphite
HB > 190



OPEL CODE	
F33040290	

OPEL CODE	W
F33040288	60
F33040290	80

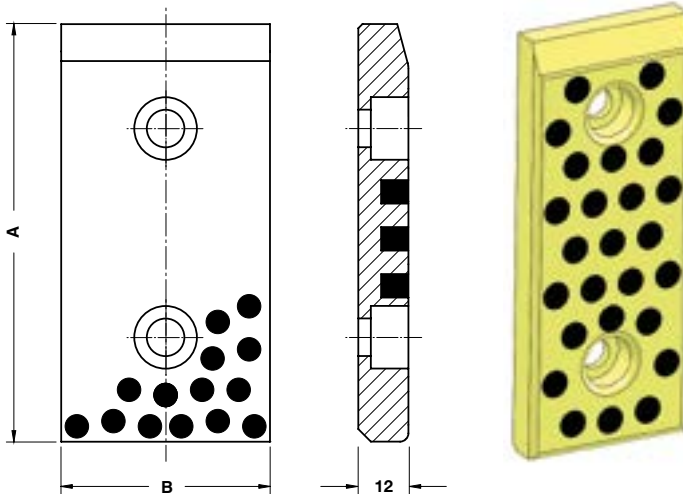
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

Notes

Material: Bronze + Graphite
HB > 190



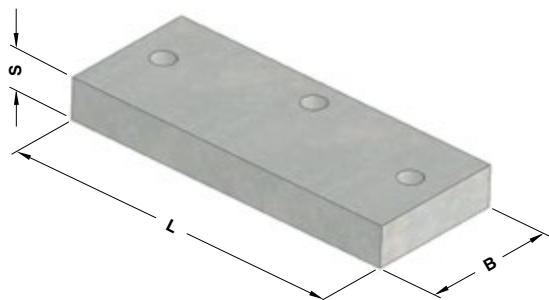
Standard Opel



	OPEL CODE
	F33040306

OPEL CODE	B	A	OPEL CODE	B	A
F33040305	30	80	F33040313	50	80
F33040306	30	100	F33040314	50	100
F33040307	30	125	F33040315	50	125
F33040308	30	200	F33040316	50	200
F33040309	40	80	F33040317	60	80
F33040310	40	100	F33040318	60	100
F33040311	40	125	F33040319	60	125
F33040312	40	200	F33040320	60	200

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

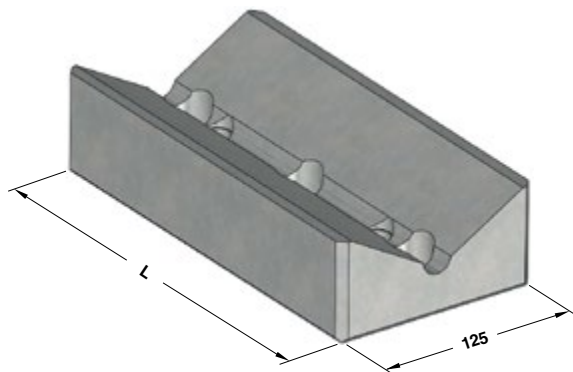
Material: 16MnCr5
HRC: 58÷60



OPEL CODE
 F33050019

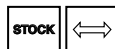
OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33050018	100	160	20	F33050023	125	250	30
F33050019	100	200	20	F33050024	125	300	30
F33050020	100	250	20	F33050025	125	350	30
F33050021	100	300	20	F33050026	125	400	30
F33050022	125	160	30				

"V" DRIVER STEEL VDI 3357
 PRISMENFÜHRUNG STAHL VDI 3357
 GUIDA A "V" IN ACCIAIO VDI 3357



Notes

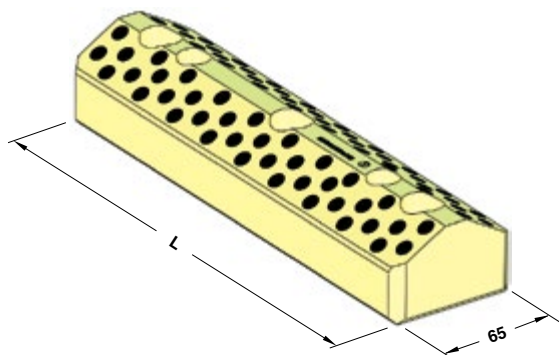
Material: CK45
HRC: 58÷60



OPEL CODE
 F33050070

OPEL CODE	L
F33050069	150
F33050070	200
F33050071	250
F33050072	300

"V" DRIVER SELF-LUBRICATING
 PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
 GUIDA A "V" AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

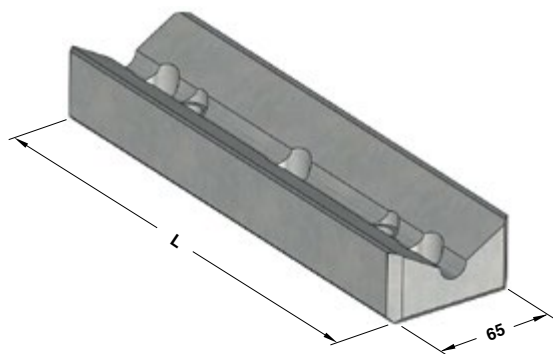


OPEL CODE
 F33050082

OPEL CODE	L
F33050081	150
F33050082	200
F33050083	250

Standard Opel

"V" DRIVER STEEL - PRISMENFÜHRUNG STAHL - GUIDA A "V" IN ACCIAIO



Notes

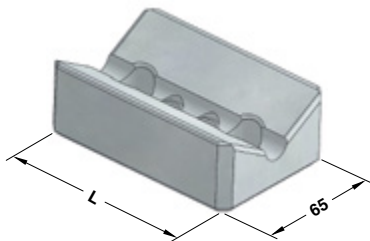
Material: CK45
HRC: 58÷60



OPEL CODE
 F33050085

OPEL CODE	L
F33050084	150
F33050085	200
F33050086	250

"V" DRIVER STEEL - PRISMENFÜHRUNG - GUIDA A "V" IN ACCIAIO



Notes

Material: CK45

HRC: 58÷60

STOCK



OPEL CODE

F33050087

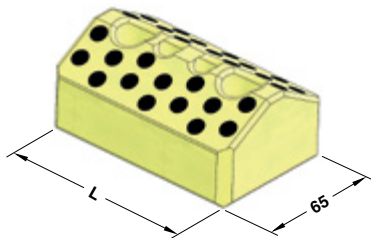
OPEL CODE

L

F33050087

100

**"V" DRIVER SELF-LUBRICATING
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
GUIDA A "V" AUTOLUBRIFICANTE**



Notes

Material: Bronze + Graphite

HB > 190

STOCK



OPEL CODE

F33050088

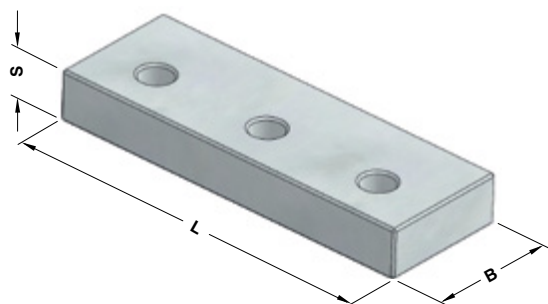
OPEL CODE

L

F33050088

100

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

Material: CK45

HRC: 58÷60

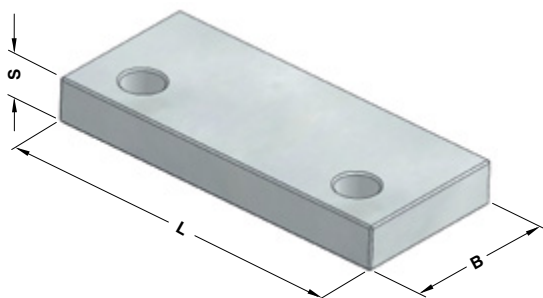


OPEL CODE

F33050090

OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33050089	52	150	20	F33050095	77	150	35
F33050090	52	200	20	F33050096	77	200	35
F33050091	52	250	20	F33050097	77	250	35
F33050092	72	150	30	F33050098	82	150	40
F33050093	72	200	30	F33050099	82	200	40
F33050094	72	250	30	F33050100	82	250	40

WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA



Notes

Material: CK45

HRC: 58÷60

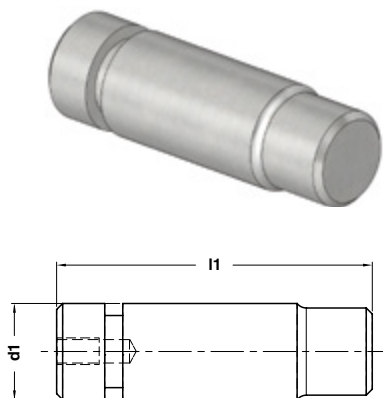


OPEL CODE

F33050102

OPEL CODE	B	L	S	OPEL CODE	B	L	S
F33050101	70	160	25	F33050105	85	240	28
F33050102	70	200	25	F33050106	85	300	28
F33050103	70	240	25	F33050107	85	350	28
F33050104	85	200	28				

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico massimo

Notes

Material: 42CrMo4
 900÷1000 N/mm²

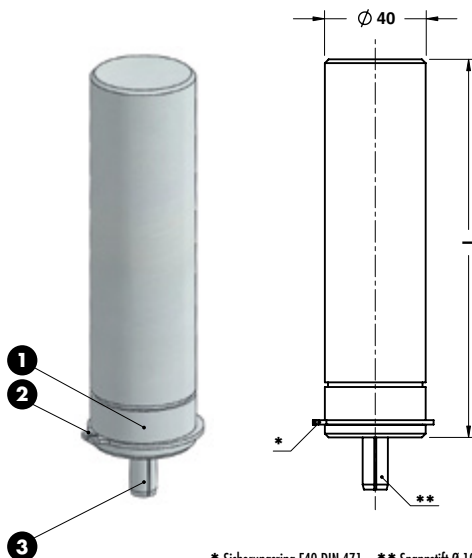
STOCK



OPEL CODE
F33150012

OPEL CODE	d1	l1	Max load (N)
F33150011	32	130	60300
F33150012	40	155	94700
F33150013	50	185	150800
F33150014	56	190	189900
F33150015	63	210	241400

AERIAL PIN - LUFTBOLZEN - CANDELA



Notes

- 1 **Material:** CK45
- 2 E Ring E40 - DIN 471
- 3 Elastic Pin Ø10x35 - DIN 8752

STOCK

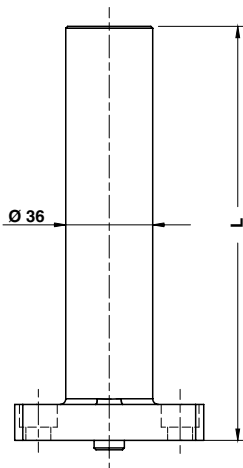


OPEL CODE
F33150038

OPEL CODE	l
F33150037	125
F33150038	150
F33150039	175
F33150040	200
F33150041	225
F33150042	250
F33150043	275
F33150044	300

* Sicherungsring E40 DIN 471 ** Spannstift Ø 10x35 DIN 8752
 Anello elastico E40 DIN 471 Spina elastica Ø 10x35 DIN 8752

AIR PIN - DRUCKBOLZEN - CANDELA



Notes

Material: CK45
800÷1000 N/mm²



OPEL CODE
F33150046

OPEL CODE	L
F33150045	150
F33150046	175
F33150047	200
F33150048	225

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



Notes

Material: 16MnCr5
HRC: 56÷60



OPEL CODE
F33150061

OPEL CODE	d
F33150060	40
F33150061	50

LIFTING PIN OPEL-GM TRAGBOLZEN MIT FALLRINGSICHERUNG OPEL-GM NORM PERNO DI SOLLEVAMENTO OPEL-GM



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

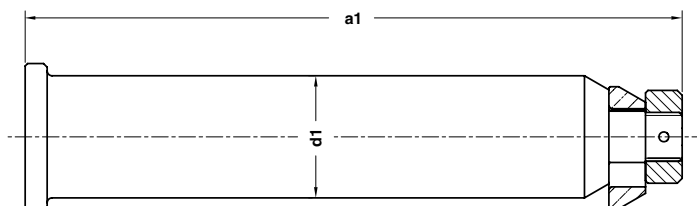
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

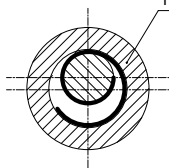
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: 42CrMo4



The part is supplied complete of steel spring

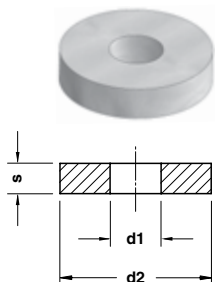


OPEL CODE

F33150088

OPEL CODE	a1	d1	Max load (kg)	Max die weight (kg)
F33150087	177	32	3400	6800
F33150088	220	40	5650	11300
F33150089	270	50	8950	17900
F33150090	342	63	14350	28700
F33150091	387	80	26700	53400

FIXING PLATE - BEFESTIGUNGSPLATTE - PIASTRA DI FISSAGGIO



Notes

Material: CK45

STOCK

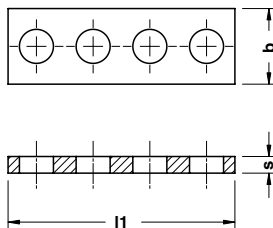
ORDER EXAMPLE

OPEL CODE			
F33160107			

OPEL CODE	d1	d2	s
F33160106	21	70	10
F33160107	25	80	15

Standard Opel

DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE



Notes

Material: St37

STOCK

ORDER EXAMPLE	OPEL CODE
	F33160109

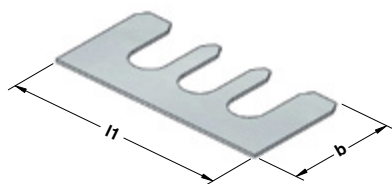
OPEL CODE	b	l1	s	OPEL CODE	b	l1	s
F33160108	20	60	4,4	F33160122	12,5	42	4,4
F33160109	20	60	4,6	F33160123	12,5	42	4,6
F33160110	20	60	4,8	F33160124	12,5	42	4,8
F33160111	20	60	5,0	F33160125	12,5	42	5,0
F33160112	20	60	5,2	F33160126	12,5	42	5,2
F33160113	20	60	5,4	F33160127	12,5	42	5,4
F33160114	20	60	5,6	F33160128	12,5	42	5,6
F33160115	16	65	4,4	F33160199	12,5	42	5,8
F33160116	16	65	4,6	F33160200	12,5	42	7,8
F33160117	16	65	4,8	F33160201	16	65	5,8
F33160118	16	65	5,0	F33160202	16	65	7,8
F33160119	16	65	5,2	F33160203	20	60	5,8
F33160120	16	65	5,4	F33160204	20	60	7,8
F33160121	16	65	5,6				

SHIM PLATE - AUSGLEICHBLECHE - PIASTRA DI SPESSORE

Notes

Material: St37

STOCK



FORM A



FORM B



FORM C



FORM D

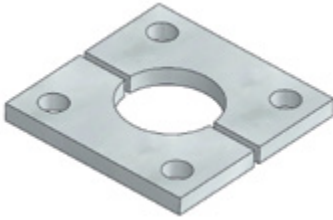


OPEL CODE

F33160158

OPEL CODE	b	l1	s	FORM	OPEL CODE	b	l1	s	FORM
F33160157	20	60	0,5	C	F33160169	15	40	0,5	A
F33160158	20	60	1	C	F33160170	15	40	1	A
F33160159	20	60	2	C	F33160171	15	40	2	A
F33160160	20	45	0,5	A	F33160172	20	52	0,5	A
F33160161	20	45	1	A	F33160173	20	52	1	A
F33160162	20	45	2	A	F33160174	20	52	2	A
F33160163	15	45	0,5	A	F33160183	12,4	42	0,5	B
F33160164	15	45	1	A	F33160184	12,4	42	1	B
F33160165	15	45	2	A	F33160185	12,4	42	2	B
F33160166	20	40	0,5	A	F33160186	15,8	65	0,5	D
F33160167	20	40	1	A	F33160187	15,8	65	1	D
F33160168	20	40	2	A	F33160188	15,8	65	2	D

RETAINING PLATE - HALTEPLATTE - PIASTRA DI RITEGNO



Notes

Material: Si37

STOCK



OPEL CODE
F33160218

OPEL CODE

F33160218

Standard Opel

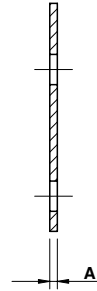
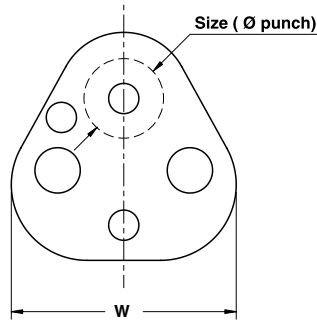
SHIM PUNCH RETAINER - DRUCKPLATTE - SPESSORE PER PORTAPUNZONE



Notes

Material: C20

STOCK



OPEL CODE
F33160231

OPEL CODE	A	W	Size	OPEL CODE	A	W	Size	OPEL CODE	A	W	Size
F33160230	2	43,7	10	F33160237	4	53,2	16	F33160244	6	69,1	25
F33160231	4	43,7	10	F33160238	6	53,2	16	F33160245	2	69,1	32
F33160232	6	43,7	10	F33160239	2	59,5	20	F33160246	4	69,1	32
F33160233	2	50,0	13	F33160240	4	59,5	20	F33160247	6	69,1	32
F33160234	4	50,0	13	F33160241	6	59,5	20	F33160248	2	76,7	40
F33160235	6	50,0	13	F33160242	2	69,1	25	F33160249	4	76,7	40
F33160236	2	53,2	16	F33160243	4	69,1	25	F33160250	6	76,7	40

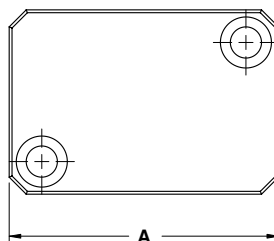
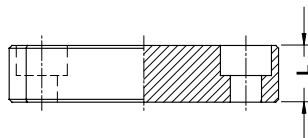
BLOCK - DISTANZKAPPE - REAZIONE PER CILINDRO

Notes

Material: 16MnCr5

HRC: 60±63

STOCK



	OPEL CODE	
	F33160227	

OPEL CODE	A	L	OPEL CODE	A	L	OPEL CODE	A	L	OPEL CODE	A	L	OPEL CODE	A	L
F33160226	50	20	F33160277	80	23	F33160286	95	35	F33160327	80	22	F33160336	130	20
F33160227	80	20	F33160278	80	26	F33160287	110	23	F33160328	80	24	F33160337	130	22
F33160228	95	20	F33160279	80	29	F33160288	110	26	F33160329	80	28	F33160338	130	23
F33160229	110	20	F33160280	80	32	F33160289	110	29	F33160330	95	22	F33160339	130	24
F33160272	50	23	F33160281	80	35	F33160290	110	32	F33160331	95	24	F33160340	130	26
F33160273	50	26	F33160282	95	23	F33160291	110	35	F33160332	95	28	F33160341	130	28
F33160274	50	29	F33160283	95	26	F33160324	50	22	F33160333	110	22	F33160342	130	29
F33160275	50	32	F33160284	95	29	F33160325	50	24	F33160334	110	24	F33160343	130	32
F33160276	50	35	F33160285	95	32	F33160326	50	28	F33160335	110	28	F33160344	130	35

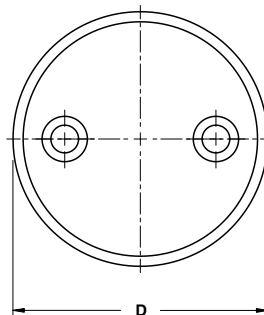
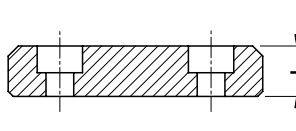
BLOCK - DISTANZKAPPE - REAZIONE PER CILINDRO

Notes

Material: 42CrMo4

HRC: 48÷55

STOCK

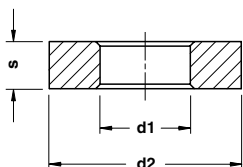


Standard Opel

ORDER EXAMPLE	OPEL CODE
	F33160346

OPEL CODE	D	L	OPEL CODE	D	L	OPEL CODE	D	L
F33160345	63	20	F33160354	101	20	F33160363	133	20
F33160346	63	22	F33160355	101	22	F33160364	133	22
F33160347	63	23	F33160356	101	23	F33160365	133	23
F33160348	63	24	F33160357	101	24	F33160366	133	24
F33160349	63	26	F33160358	101	26	F33160367	133	26
F33160350	63	28	F33160359	101	28	F33160368	133	28
F33160351	63	29	F33160360	101	29	F33160369	133	29
F33160352	63	32	F33160361	101	32	F33160370	133	32
F33160353	63	35	F33160362	101	35	F33160371	133	35

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45

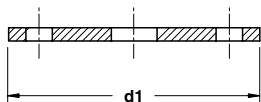
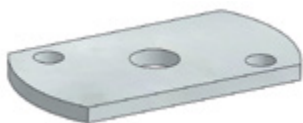
STOCK



OPEL CODE
F33180008

OPEL CODE	d1	d2	s
F33180007	6	16	3.5
F33180008	12	24.5	5
F33180009	16	32	6.5
F33180010	20	40	8
F33180011	24	50	10
F33180012	30	60	12

DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE



Notes

Material: CK45

STOCK



OPEL CODE
F33180021

OPEL CODE	d1
F33180020	105
F33180021	125

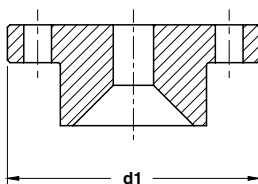
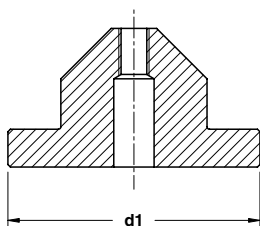
LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A



FORM B



Notes

Material: 16MnCr5

HRC: 60÷62

STOCK



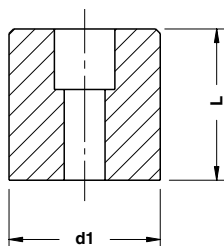
OPEL CODE

F33190004

OPEL CODE	d1	FORM
F33190003	100	B
F33190004	120	B
F33190037	100	A
F33190038	120	A

Standard Opel

SPACER - DISTANZSTÜK - DISTANZIALE



Notes

Material: CK45

STOCK

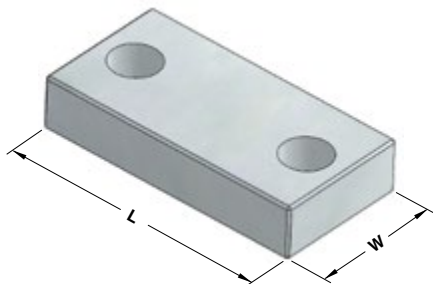


OPEL CODE

F33190006

OPEL CODE	d1	L
F33190005	50	50
F33190006	80	50
F33190025	100	50
F33190026	80	160

BOTTOMING BLOCK - ABSTANDBLOCK - DISTANZIALE



Notes

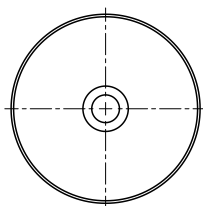
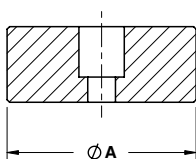
Material: CK45

STOCK

	OPEL CODE
	F33190032

OPEL CODE	L	W
F33190031	100	30
F33190032	100	40
F33190033	80	40
F33190034	100	50

SPACER - DISTANZSTÜK - DISTANZIALE



Notes

Material: CK45

STOCK

	OPEL CODE
	F33190040

OPEL CODE	A
F33190039	50
F33190040	75

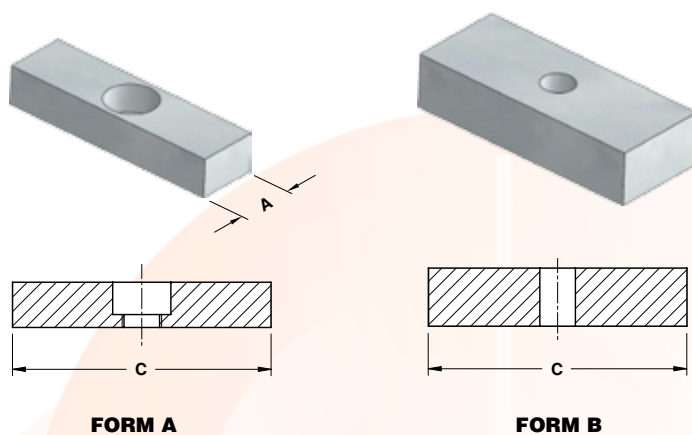
KEY - PASSFEDER - CHIAVETTA

Notes

Material: CK45

STOCK

Standard Opel



FORM A

FORM B



OPEL CODE

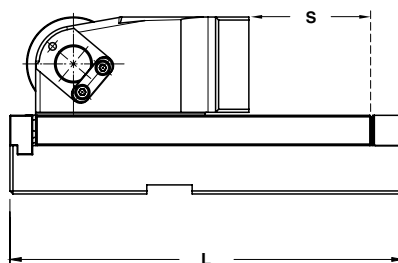
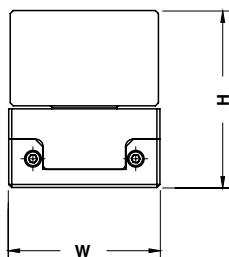
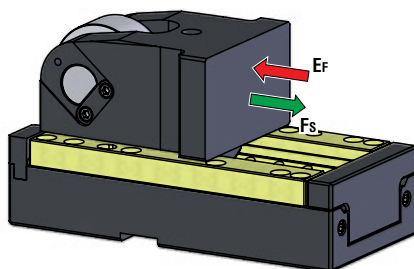
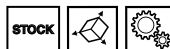
F33200010

OPEL CODE	A	C	FORM	OPEL CODE	A	C	FORM	OPEL CODE	A	C	FORM
F33200009	22	50	A	F33200018	25	50	A	F33200025	32	100	B
F33200010	22	80	A	F33200019	25	80	A	F33200026	25	100	A
F33200011	22	100	A	F33200023	32	50	B	F33200033	32	100	A
F33200017	20	80	A	F33200024	32	80	B				

ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

Notes

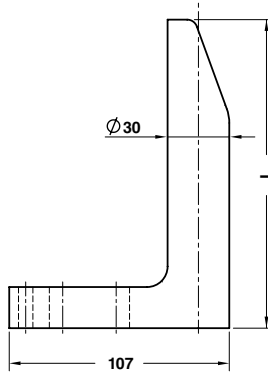
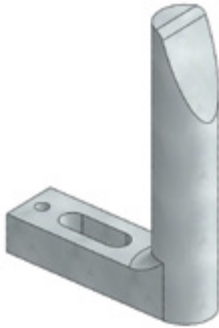
For technical info see pages 672÷693



OPEL CODE
F33220333

OPEL CODE	L	H	W	Stroke (mm)		Max Work Force (kN)		Extraction Force (kN)	
				S		Fs	Ef	Gas Spring	
F33220332	200	117	98	50		76		2,86	
F33220333	230	117	98	80		76		2,89	
F33220334	260	117	98	100		76		3,09	
F33220335	200	140	118	50		162		6,5	
F33220336	230	140	118	80		162		6,62	
F33220337	260	140	118	100		162		7,26	
F33220338	220	165	170	50		166		6,36	
F33220339	250	165	170	80		166		6,43	
F33220340	270	165	170	100		166		6,46	
F33220341	250	205	240	50		258		9,29	
F33220342	280	205	240	80		258		9,36	
F33220343	300	205	240	100		258		9,38	

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60



OPEL CODE

F33260005

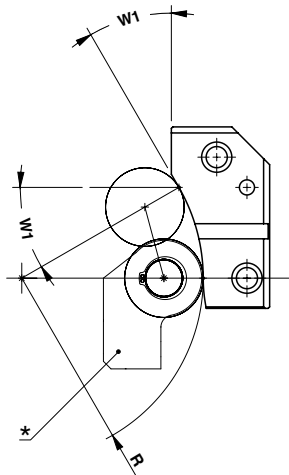
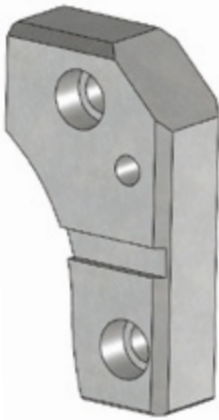
OPEL CODE

L

OPEL CODE	L
F33260004	65
F33260005	90
F33260006	120
F33260007	150
F33260008	180
F33260009	250
F33260396	300
F33260397	350

Standard Opel

ACCELERATION CAM - SCHIEBERVORBESCHLEUNIGUNG - CAMMA DI ACCELERAZIONE



Notes

Materials: 90MnCrV8 - HRC 60÷62



OPEL CODE

F33260015

OPEL CODE

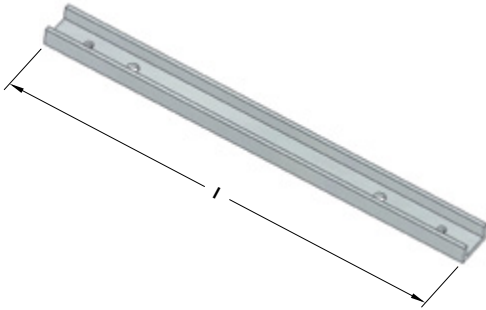
R

W1

OPEL CODE	R	W1
F33260014	90	40°
F33260015	90	37.5°
F33260016	100	37.5°
F33260017	100	35°
F33260020	75	42.5°
F33260021	75	45°
F33260022	75	47.5°
F33260023	65	50°
F33260024	65	52.5°

* Cam roller
 Rollenbock
 Supporto con rullo

GUIDE - AUFNAHMESCHIENE - GUIDA



Notes

Material: Steel

STOCK



OPEL CODE
F33260043

OPEL CODE		I
F33260026		1175
F33260043		420

DISK - EINZELTEILE - DISCO



Notes

Material: CK45

STOCK



OPEL CODE
F33260029

OPEL CODE	
F33260029	

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45

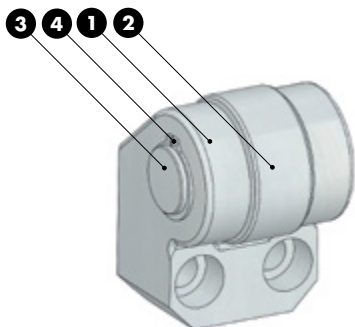
STOCK



OPEL CODE
F33260030

OPEL CODE	
F33260030	

CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO



Notes

- 1 **Material:** 42CrMo4
- 2 NUTR 25-52
- 3 **Material:** 16MnCr5
HRC: 60±62
- 4 E25 DIN 471



OPEL CODE

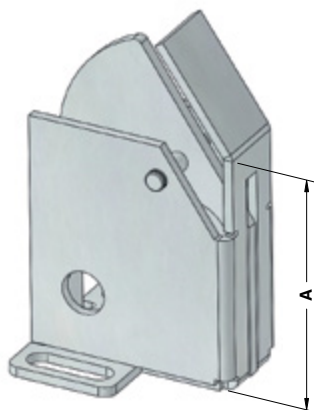
F33260032

OPEL CODE

F33260032

Standard Opel

FRONT GAGE - EINLAUFANSLAG - PORTASENSORE



Notes

Material: Si37



OPEL CODE

F33260204

OPEL CODE

A

F33260203

75

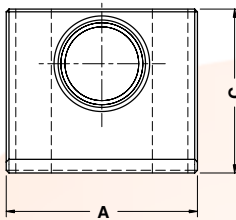
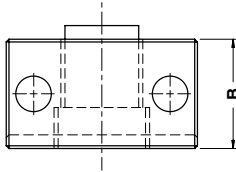
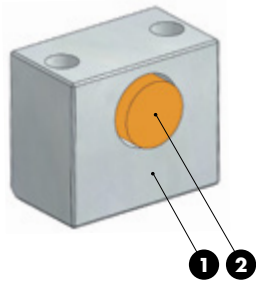
F33260204

100

F33260205

150

SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA



Notes

- 1 **Material:** CK45
- 2 **Material:** Elastomer 90 SH

STOCK

	OPEL CODE
	F33260264

OPEL CODE	A	B	C
F33260223	80	80	70
F33260264	80	40	70
F33260342	70	40	60

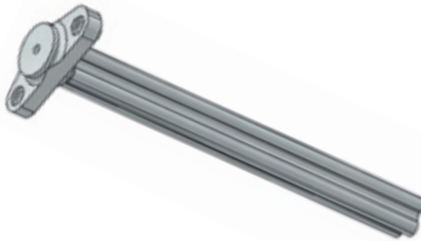
F3328**OMCR****COILER FOR ELECTRICAL WIRES - KABELAUFWICKLER - AVVOLGITORE PER CAVI ELETTRICI****Notes****Material:** Si37**STOCK****OPEL CODE**

F33280001

OPEL CODE

F33280001

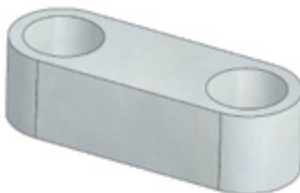
Standard Opel

F3329**OMCR****STAMP RACK PILLAR - MARKIERSTEMPELKONSOLE - COLONNA PORTATIMBRI****Notes****Material:** CK45**STOCK****OPEL CODE**

F33290002

OPEL CODE

F33290002

F3329**OMCR****COUNTER-PRESSURE PLATE - GEGENDRUCKPLATTE - PIASTRINA DI REAZIONE****Notes****Material:** Si37**STOCK****OPEL CODE**

F33290041

OPEL CODE

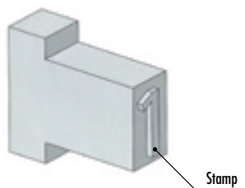
F33290041

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: 90MnCrV8
HRC: 60÷64

STOCK



OPEL CODE
 F33290044

OPEL CODE	Stamp	OPEL CODE	Stamp	OPEL CODE	Stamp	OPEL CODE	Stamp
F33290043	0	F33290052	9	F33290150	J	F33290159	U
F33290044	1	F33290142	A	F33290151	K	F33290160	V
F33290045	2	F33290143	B	F33290152	L	F33290161	W
F33290046	3	F33290144	C	F33290153	M	F33290162	X
F33290047	4	F33290145	D	F33290154	N	F33290163	Y
F33290048	5	F33290146	E	F33290155	P	F33290164	Z
F33290049	6	F33290147	F	F33290156	R		
F33290050	7	F33290148	G	F33290157	S		
F33290051	8	F33290149	H	F33290158	T		

STAMP - BUCHSTABENSTEMPEL - MARCHIO

Notes

Material: 90MnCrV8
HRC: 60÷64

STOCK



OPEL CODE
 F33290063

OPEL CODE

F33290063

VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE

Notes

Material: X155CrVMo121KU
HRC: 60÷64

STOCK



OPEL CODE

F33290068

OPEL CODE

F33290068

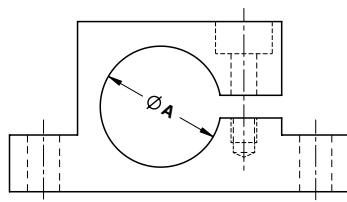
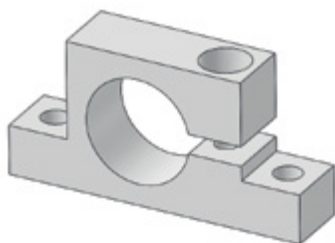
Standard Opel

GAS SPRING FOOT MOUNTING - KLEMMSTÜCK - SUPPORTO MOLLA A GAS

Notes

Material: CK45

STOCK



OPEL CODE

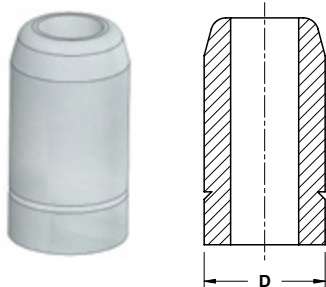
F33310015

OPEL CODE

A

F33310014	32.35
F33310015	38.35
F33310016	45.35
F33310017	50.35
F33310018	75.35
F33310019	95.35
F33310020	120.35
F33310021	150.35
F33310022	195.35

URETHANE SPRING RETAINER - ELASTOMERHALTERUNG - RITEGNO PER ELASTOMERO

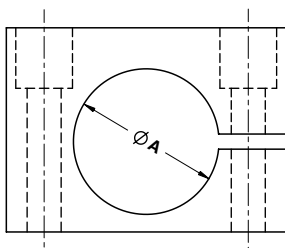
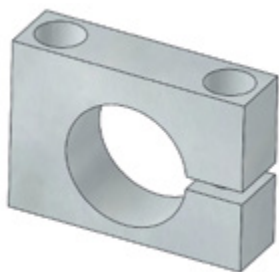


Notes
Material: CK25

STOCK

	OPEL CODE
	F33310024
OPEL CODE	D
F33310023	16
F33310024	24

GAS SPRING MOUNT-CLAMP - FEDERAUFLAGE - SUPPORTO PER MOLLA A GAS



Notes
Material: CK45

STOCK

	OPEL CODE
	F33310030
OPEL CODE	A
F33310029	32.5
F33310030	38.5
F33310031	45.5
F33310032	50.5
F33310033	75.5
F33310034	95.5
F33310035	120.5
F33310036	150.5

F3391**OMCR****AIR COUPLING BRACKET - LUFTANSCHLUSSBOCK - SUPPORTO INNESTI RAPIDI****Notes****Material:** Si37**STOCK**
OPEL CODE
F33910001
OPEL CODE**F33910001**

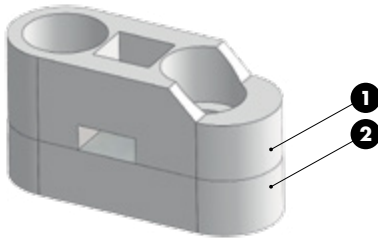
Standard Opel

F3391**OMCR****AIR COUPLING BRACKET - LUFTANSCHLUSSBOCK - SUPPORTO INNESTI RAPIDI****Notes****Material:** Si37**STOCK**
OPEL CODE
F33910002
OPEL CODE**F33910002****F3391****OMCR****AIR COUPLING BRACKET - LUFTANSCHLUSSBOCK - SUPPORTO INNESTI RAPIDI****Notes****Material:** Si37**STOCK**
OPEL CODE
F33910003
OPEL CODE**F33910003**

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI

Notes

- 1** F33290065 - **Material:** St37
- 2** F33290066 - **Material:** CK45



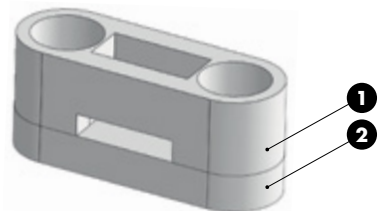
OPEL CODE
F33910043

OPEL CODE
F33910043

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI

Notes

- 1** F33290039 - **Material:** CK45
- 2** F33290040 - **Material:** CK45



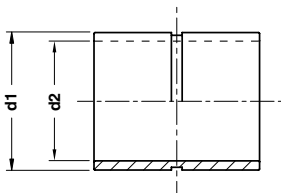
OPEL CODE
F33910044

OPEL CODE
F33910044

BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO



FORM A



FORM B

Notes

Material: CK45

STOCK



OPEL CODE
F33910111

OPEL CODE	d1	d2	FORM
F33910110	44	34	A
F33910111	52	42	A
F33910112	62	52	A
F33910113	75	65	A
F33910115	100	82	B

Standard Opel

SENSOR MOUNTING BRACKET - SENSORHALTERUNGEN - STAFFA PER SENSORE



J06910069



J06910070

Notes

Material: Si37

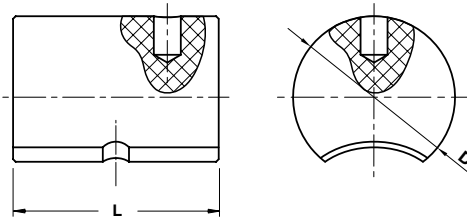
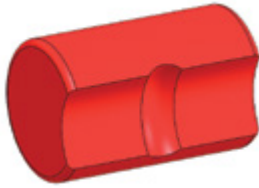
STOCK



OPEL CODE
J06910070

OPEL CODE
J06910069
J06910070

SHOCK ABSORBER - HALTELEMENT - AMMORTIZZATORE



Notes

Material: Polyurethane 92 SH

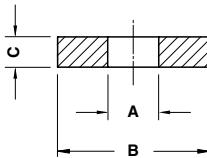
STOCK



OPEL CODE
M16045183

OPEL CODE	D	L
M16045182	40	60
M16045183	50	80
M16045184	63	80

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45

STOCK



OPEL CODE
M36600071

OPEL CODE	A	B	C
M36600070	8,4	21	4
M36600071	10,5	25	4
M36600072	13	30	6
M36600073	17	40	6



HERMLI

C 40 U dynamic





OMCR®

STANDARD DIE COMPONENTS



STANDARD










PEUGEOT CITROËN



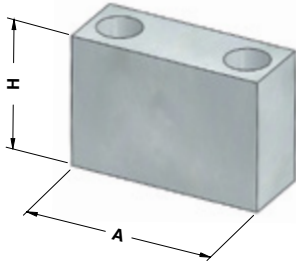
MAIN
INDEX

E24.51	E24.51.930.G	E24.51.930.G	E24.52	E24.52.105.G
				
	Balance block Distanzstück Distanziale	Stop block Abstandsblock Distanziale		Guide post Führungssäule Colonna
	403	403		404
E24.52.105.G	E24.52.105.G	E24.52.105.G	E24.52.105.G	E24.52.105.G
				
Anfor Clamping Flange Spannflansch Afnor Ritegno Per Colonna Afnor	Anfor Retaining Flange Sicherungsflansch Afnor Ritegno Afnor	Guide post Führungssäule Colonna	Bush self-lubricating Führungsbuchse Boccola autolubrificante	Toe clamp for bush Haltestück für Buchse Ritegno per boccola
405	405	406	407	408
E24.52.305.G	E24.52.504.G	E24.52.504.G	E24.52.504.G	E24.52.504.G
				
Toe clamp for bush Haltestück für Buchse Ritegno per boccola	Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357	Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357	Wear plate Afnor Gleitplatte Afnor Piastra guida Afnor	Wear Plate Afnor Gleitplatte Afnor Piastra guida Afnor
408	409	410	411	412
E24.52.535.G	E24.52.535.G	E24.52.540.G	E24.54	E24.54.410.G
				
Wear plate Gleitplatte Piastra guida	Wear plate Gleitplatte Piastra guida	Distance plate for wear plate Höhenausgleich für Gleitplatte Distanziale per piastra		Elastomer spring Elastomerfeder Molla in elastomero
413	413	414		415

<p>E24.54.410.G</p>  <p>Elastomer Spring Pin Aufnahmebolzen Perno per molle</p> <p>415</p>	<p>E24.54.420.G</p>  <p>Elastomer cap Elastomerdruckstück Puntalino in elastomero</p> <p>416</p>	<p>E24.55</p>	<p>E24.55.265.G</p>  <p>Shock absorber Halteelemente Ammortizzatore</p> <p>416</p>	<p>E24.55.265.G</p>  <p>Retainer pin Steckbolzen Perno di arresto</p> <p>417</p>
<p>E24.56.200.G</p>  <p>Gage hardened Einweiser gehärtet Riferimento indurito</p> <p>417</p>	<p>E24.56.200.G</p>  <p>Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore</p> <p>418</p>		<p>E24.56</p>	<p>E24.56.630.G</p>  <p>Key Passfedern Chiavetta</p> <p>419</p>
<p>E24.56.630.G</p>  <p>Key Passfedern Chiavetta</p> <p>420</p>	<p>E24.56.700.G</p>  <p>Locating cone Kegeldistanz Cono di centraggio</p> <p>421</p>	<p>E24.57</p>		<p>E24.57.370.G</p>  <p>Sleeve Führungseinheit Canotto Guida</p> <p>421</p>
<p>E24.57.370.G</p>  <p>Guide post Führungssäule Colonna</p> <p>422</p>	<p>E24.57.370.G</p>  <p>Union block Befestigungselement Tassello di unione</p> <p>423</p>		<p>E24.57.370.G</p>  <p>Clevis Gabelförmig Forcella</p> <p>423</p>	<p>E24.61</p>

E24.61.100.G	E24.64	E24.64.100.G	E24.64.100.G	E24.64.100.G
				
<p>Plate Gleitplatte Piastra</p> <p>424</p>		<p>Stamp retainer Halteplatte Portatimbri</p> <p>425</p>	<p>Backing plate Druckplatte Distanziale</p> <p>425</p>	<p>Stamp Buchstabenstempel Punzone marchio</p> <p>426</p>
E24.64.100.G	E24.64.110.G	E24.65	E24.65.000.G	
				
<p>Stamp Buchstabenstempel Punzone marchio</p> <p>427</p>	<p>Stamp retainer Halteplatte Portatimbri</p> <p>428</p>		<p>Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento</p> <p>429</p>	

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



Notes

Material: CK45

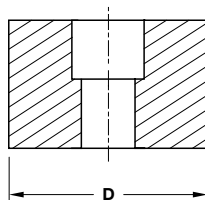
STOCK



PSA CODE
A 699 101 804

PSA CODE	A	H
A 699 101 605	80	55
A 699 101 804	110	55
J 856 750 087	100	137
J 859 912 001	80	101

STOP BLOCK - ABSTANDBLOCK - DISTANZIALE



Notes

Material: 25CrMo4

STOCK



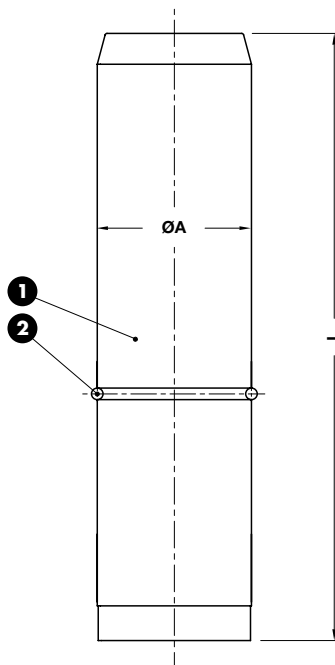
PSA CODE
N 001 107 798

PSA CODE	D
N 001 107 798	70
N 001 107 801	40

GUIDE POST - FÜHRUNGSSÄULE - COLONNA

Notes

- 1 Material: 16MnCr5 - HRC: 60÷62
- 2 Material: St37

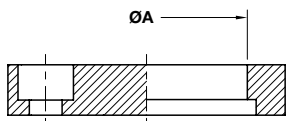


PSA CODE

Z 000 495 749

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Z 000 495 749	25	125	P 446 118 174	50	250
Z 000 306 386	32	125	P 446 118 101	50	280
Z 000 325 846	32	220	P 446 118 701	63	250
P 446 117 470	40	180	P 446 118 702	63	315
P 446 117 401	40	200	P 446 119 200	80	315
P 446 117 476	40	220	P 446 119 270	80	355

AFNOR CLAMPING FLANGE - SPANNFLANSCH AFNOR - RITEGNO PER COLONNA AFNOR



Notes

Material: CK45

STOCK

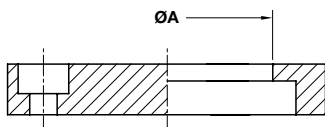
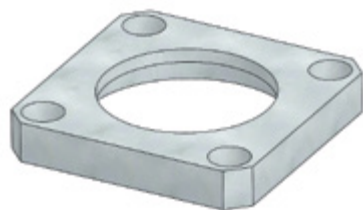


PSA CODE
P 446 932 711

PSA CODE	A
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P 446 932 711	32
P 446 932 701	40
P 446 932 702	50
P 446 932 703	63
P 446 932 704	80

Standard PSA

AFNOR RETAINING FLANGE - SICHERUNGSFLANSCH AFNOR - RITEGNO AFNOR



Notes

Material: CK45

STOCK



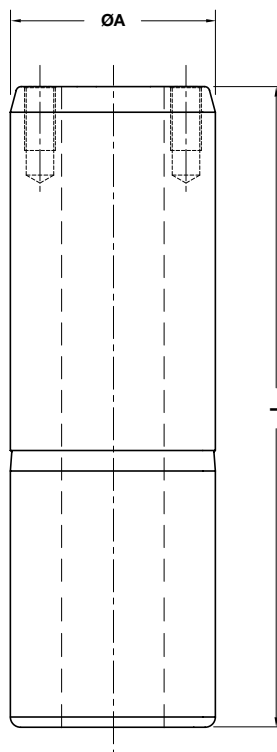
PSA CODE
P 446 932 720

PSA CODE	A
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P 446 932 720	60
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P 446 932 722	100

GUIDE POST - FÜHRUNGSSÄULE - COLONNA

Notes

Material: 16MnCr5 - HRC: 60÷62

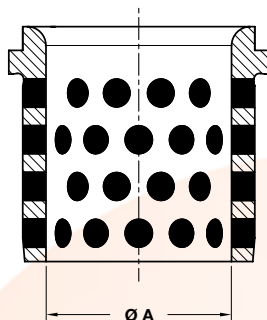


PSA CODE

Z 000 508 424

PSA CODE	A	L	PSA CODE	A	L
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N 000 829 460	100	250	N 000 527 148	125	355
Z 000 508 424	100	315	Z 000 499 648	125	400
Z 000 499 647	100	355	Z 000 508 423	125	450
Z 000 508 422	100	400			

BUSH SELF-LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

STOCK



PSA CODE

Z 000 499 646

PSA CODE

A

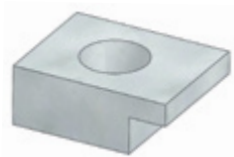
Z 000 499 644

100

Z 000 499 646

125

TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA



Notes
Material: CK45

STOCK

Application example

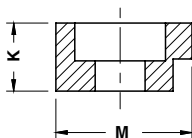
E24.52.105.G

ORDER EXAMPLE

PSA CODE
 Z 000 263 005

PSA CODE
 Z 000 263 005

TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA



Notes
Material: CK45

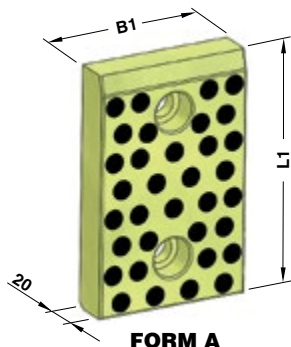
STOCK

ORDER EXAMPLE

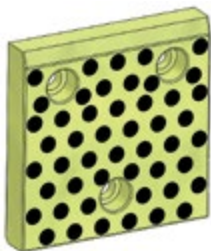
PSA CODE
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PSA CODE	K	M
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P 446 932 708	11	22
P 446 932 709	18	26

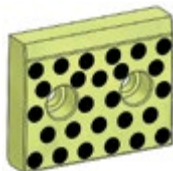
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FETSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357



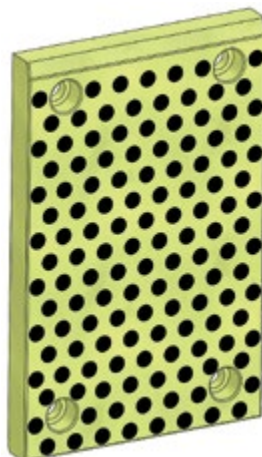
FORM A



FORM B



FORM C



FORM D

Notes

Material: Bronze + Graphite
HB > 190

STOCK



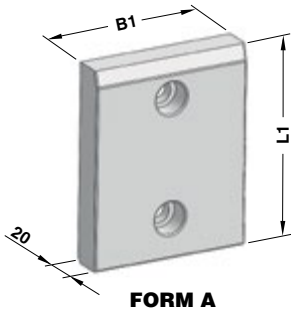
PSA CODE

N 001 275 075

* Not in accordance with VDI3357
 Nicht mit Entspricht VDI3357
 Non conforme alla norma VDI3357

PSA CODE	B1	L1	FORM	PSA CODE	B1	L1	FORM
N 001 337 331	50	80	A	N 001 275 175	100	160	A
N 001 275 075	50	100	A	N 001 275 176	100	200	A
N001275 076	50	125	A	N 001 275 436*	100	250	D
N 001 275 095	50	160	A	N 001 275 195	125	80	C
N 001 275 096	50	200	A	N 001 275 215	125	100	B
N 001 334 791	80	50	C	N 001 275 235	125	125	B
N 001 337 333	80	80	A	N 001 275 236	125	160	B
N 001 275 115	80	100	A	N 001 275 255	125	200	B
N 001 275 135	80	125	A	N 001 275 256	160	100	B
N 001 275 136	80	160	A	N 001 275 257	160	125	B
N 001 275 137	80	200	A	N 001 275 295	160	160	B
N 001 275 138	100	50	C	N 001 275 437*	160	200	D
N 001 275 139	100	80	C	N 001 275 438*	160	250	D
N 001 275 155	100	100	A	N 001 275 278*	160	300	D
N 001 275 156	100	125	A				

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357



Notes

Material: 16MnCr5
HRC: 58÷60



ORDER EXAMPLE	PSA CODE
	N 001 275 495

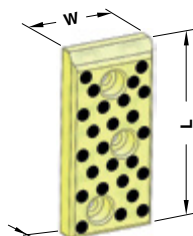
* Not in accordance with VDI3357
 entspricht nicht VDI3357
 Non conforme alla linea guida VDI3357

PSA CODE	B1	L1	FORM	PSA CODE	B1	L1	FORM
N 001 337 327	50	80	A	N 001 275 617	100	160	A
N 001 275 495	50	100	A	N 001 275 618	100	200	A
N 001 275 496	50	125	A	N 001 276 057*	100	250	D
N 001 275 497	50	160	A	N 001 275 635	125	80	C
N 001 275 515	50	200	A	N 001 275 655	125	100	B
N 001 334 794	80	50	C	N 001 275 656	125	125	B
N 001 337 329	80	80	A	N 001 275 675	125	160	B
N 001 275 535	80	100	A	N 001 275 676	125	200	B
N 001 275 536	80	125	A	N 001 275 677	160	100	B
N 001 275 537	80	160	A	N 001 275 695	160	125	B
N 001 275 555	80	200	A	N 001 275 696	160	160	B
N 001 275 575	100	50	C	N 001 276 058*	160	200	D
N 001 275 595	100	80	C	N 001 276 059*	160	250	D
N 001 275 615	100	100	A	N 001 275 735*	160	300	D
N 001 275 616	100	125	A				

WEAR PLATE SELF-LUBRICATING AFNOR
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR
PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR



FORM A



FORM B

Notes
Material: Bronze + Graphite
HB > 190



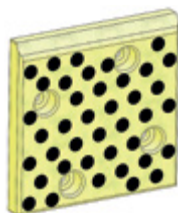
FORM C



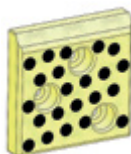
FORM E



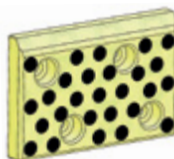
FORM F



FORM D



FORM G



FORM H



PSA CODE
Z 000 166 216

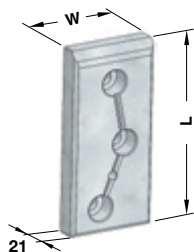
PSA CODE	W	L	FORM	PSA CODE	W	L	FORM
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Z 000 166 216	70	150	B	Z 000 166 218	150	100	H
Z 000 166 221	70	200	C	Z 000 166 219	150	150	D
Z 000 166 215	100	100	G	Z 000 166 223	150	200	C
Z 000 166 217	100	150	D	Z 000 166 226	150	250	E
Z 000 166 222	100	200	C	Z 000 166 228	150	300	F
Z 000 166 225	100	250	E	Z 000 166 224	200	100	H

Standard PSA

WEAR PLATE STEEL AFNOR
GLEITPLATTE STAHL AFNOR
PIASTRA GUIDA IN ACCIAIO AFNOR



FORM A



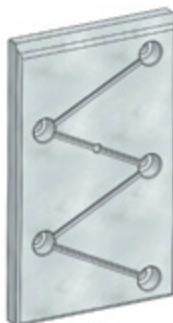
FORM B

Notes

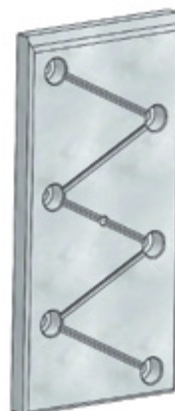
Material: 16MnCr5
HRC: 58÷60



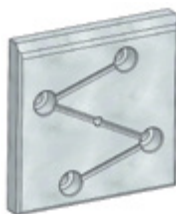
FORM C



FORM E



FORM F



FORM D



FORM G



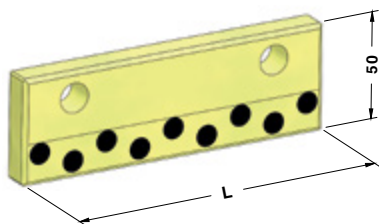
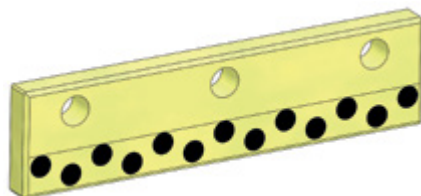
FORM H



PSA CODE
P 446 626 558

PSA CODE	W	L	FORM	PSA CODE	W	L	FORM
Z 000 166 213	70	100	A	P 446 627 754	100	300	F
P 446 626 558	70	150	B	P 446 626 560	150	100	H
P 446 627 059	70	200	C	P 446 626 561	150	150	D
P 446 625 855	100	100	G	P 446 627 061	150	200	C
P 446 626 559	100	150	D	P 446 627 455	150	250	E
P 446 627 060	100	200	C	P 446 627 755	150	300	F
P 446 627 454	100	250	E	Z 000 166 220	200	100	H

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



Notes

Material: Bronze + Graphite
HB > 190

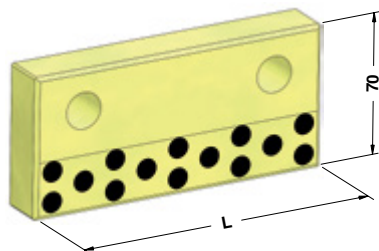
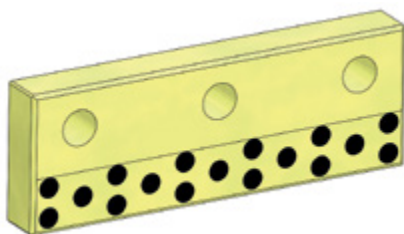


PSA CODE	
N 000 577 043	

PSA CODE	L
N 000 577 042	200
N 000 577 043	150

Standard PSA

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



Notes

Material: Bronze + Graphite
HB > 190



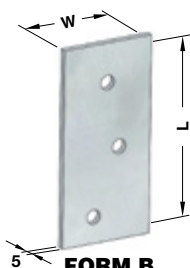
PSA CODE	
N 000 577 047	

PSA CODE	L
N 000 577 046	200
N 000 577 047	150

**DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
DISTANZIALE PER PIASTRA**



FORM A



FORM B

Notes
Material: S137

STOCK



FORM C



FORM E



FORM F



FORM D



FORM G



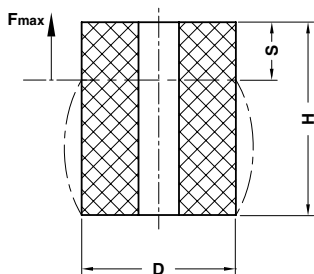
FORM H



PSA CODE
P 446 935 711

PSA CODE	W	L	FORM	PSA CODE	W	L	FORM
P 446 935 710	70	100	A	P 446 935 717	100	300	F
P 446 935 711	70	150	B	P 446 935 718	150	100	H
P 446 935 712	70	200	C	P 446 935 719	150	150	D
P 446 935 713	100	100	G	P 446 935 720	150	200	C
P 446 935 714	100	150	C	P 446 935 721	150	250	E
P 446 935 715	100	200	C	P 446 935 722	150	300	F
P 446 935 716	100	250	E	P 446 935 723	200	100	H

ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO



S = max. 30% H

Notes

Material: Polyurethane 90 SH

STOCK



PSA CODE

X 346 552 171

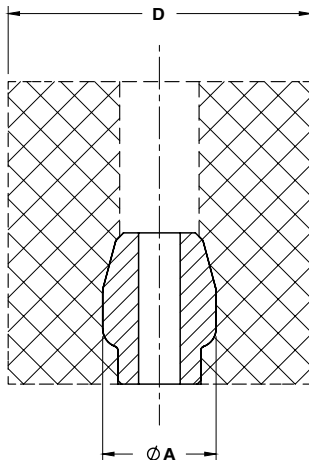
PSA CODE	D	H	Fmax (daN)
X 346 552 172	16	20	130
X 346 552 171	16	25	130
X 346 552 670	20	25	200
X 346 552 671	20	32	200
Z 000 163 267	25	20	300
X 346 553 173	25	32	300
Z 000 163 268	32	40	580
Z 000 163 783	40	32	1250

PSA CODE	D	H	Fmax (daN)
X 346 553 871	40	63	1250
X 346 554 700	50	40	1700
X 346 554 772	50	50	1700
X 346 554 770	50	80	1700
X 346 554 703	50	100	1700
Z 000 163 269	63	40	2600
Z 000 163 270	63	80	2600
X 346 555 572	80	80	4300

PSA CODE	D	H	Fmax (daN)
Z 000 163 271	80	100	4300
X 346 555 570	80	125	4300
X 346 555 372	100	80	5900
X 346 555 373	100	100	5900
X 346 555 578	100	125	5900
Z 000 163 272	125	100	9900
X 346 556 305	125	160	9900

Standard PSA

ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE IN ELASTOMERO



Notes

Material: CK45

STOCK

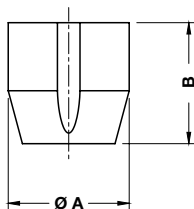


PSA CODE

G 856 699 005

PSA CODE	A	D
G 856 699 010	25	50÷63
G 856 699 005	30	80÷100
G 856 699 002	38	125

ELASTOMER CAP - ELASTOMERDRUCKSTÜCK - PUNTALINO IN ELASTOMERO



Notes

Material: Elastomer 92 SH

STOCK

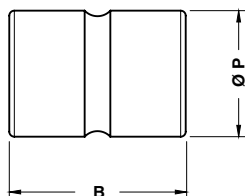


PSA CODE

P 399 341 501

PSA CODE	A	B
P 399 341 500	6	9,5
P 399 341 501	10	15,5
P 399 341 502	16	25
P 399 341 700	24	25

SHOCK ABSORBER - HALTELEMENTE - AMMORTIZZATORE



Without silicone
Ohne silicon
Senza silicone

Notes

Material: Elastomer 92 SH

STOCK

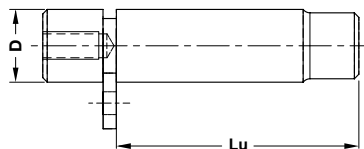
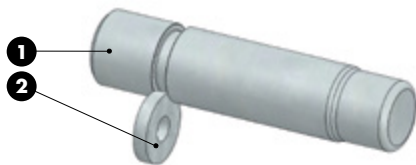


PSA CODE

Z 000 404 676

PSA CODE	B	P
Z 000 404 675	45	25
Z 000 404 676	50	32
X 346 563 970	60	40
Z 000 404 677	70	50
X 346 564 970	80	63
Z 000 404 678	90	80

RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes

1 2 Material: CK45



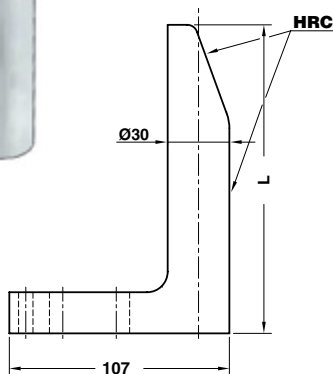
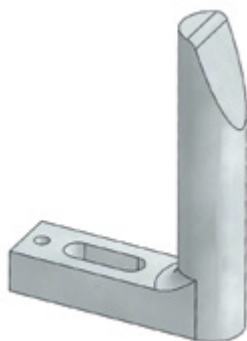
PSA CODE

Z 000 400 338

PSA CODE	D	Lu	PSA CODE	D	Lu	PSA CODE	D	Lu
Z 000 400 337	20	81	Z 000 400 342	32	148	Z 000 400 350	50	220
Z 000 400 338	25	81	Z 000 400 345	40	132	Z 000 400 353	63	210
Z 000 400 339	25	98	Z 000 400 346	40	192	Z 000 400 354	63	250
Z 000 400 487	32	103	Z 000 400 349	50	165	Z 000 424 846	80	210

Standard PSA

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - HRC: 58÷60

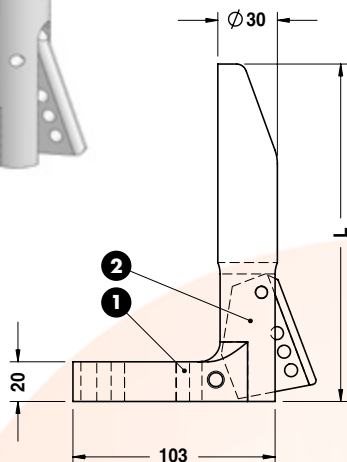
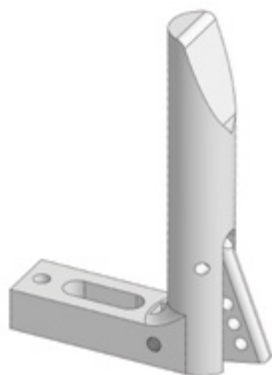


PSA CODE

N 000 445 401

PSA CODE	L
N 000 445 400	65
N 000 445 401	90
N 000 445 402	120
N 000 445 403	150
N 000 445 404	180
N 000 445 405	250

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE



Notes

- ① Material: CK60
 ② Material: St37 - HRC: 58÷60



* Spring - Feder - Molla



ORDER EXAMPLE	PSA CODE
	N 001 281 615

PSA CODE	L
N 001 281 595	120
N 001 281 615	150
N 001 281 635	180
N 001 281 655	250

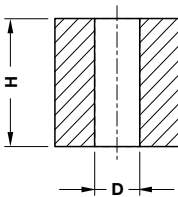
KEY - PASSFEDERN - CHIAVETTA

Notes

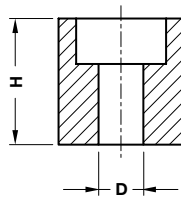
Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK

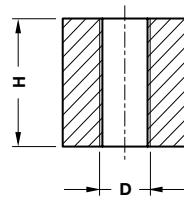
Standard PSA



FORM A



FORM B



FORM C

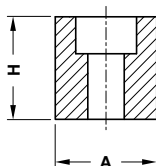
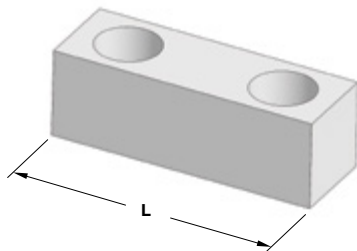


PSA CODE

J 859 623 008

PSA CODE	H	Nr. hole	D	FORM	PSA CODE	H	Nr. hole	D	FORM
X 548 292 170	20	1	9	A	J 859 623 002	25	2	M8	C
J 859 623 008	25	1	9	A	J 859 623 006	25	1	M10	C
X 548 299 870	32	2	11	A	J 859 623 007	25	2	M10	C
J 859 623 003	25	1	9	B	J 859 623 011	32	1	M8	C
J 859 623 004	25	2	9	B	J 859 623 012	32	2	M8	C
J 859 623 013	32	1	9	B	J 859 623 016	32	1	M10	C
J 859 623 014	32	2	9	B	J 859 623 017	32	2	M10	C
J 859 623 001	25	1	M8	C					

KEY - PASSFEDERN - CHIAVETTA



Notes

Material: CK45

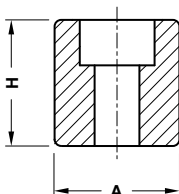
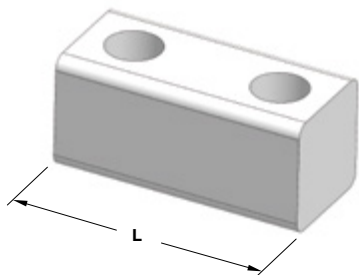
STOCK



PSA CODE			
J 859 623 008			

PSA CODE	A	H	L
J 859 623 004	25	25	75
J 859 623 014	32	32	75

KEY - PASSFEDERN - CHIAVETTA



Notes

Material: 16MnCr5 - HRC: 60÷62

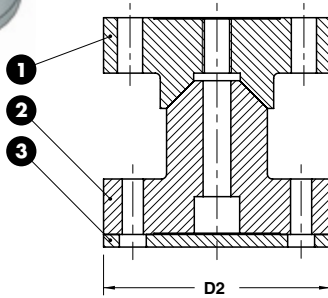
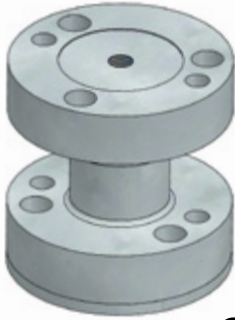
STOCK



PSA CODE			
N 001 327 512			

PSA CODE	A	H	L
N 001 327 511	45 h6	45	100
N 001 327 512	45 h6	45	200

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



Notes

1 2

Material: X155CrMo12 - HRC: 58÷60

3 Material: 36CrNiMo4

STOCK



PSA CODE

Z 000 400 140

PSA CODE

D2

Z 000 400 139

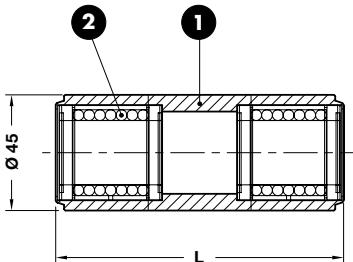
90

Z 000 400 140

110

Standard PSA

SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA



Notes

1 Material: CK45

2 STAR 0658-225-40

STOCK



PSA CODE

P 446 905 006

PSA CODE

L

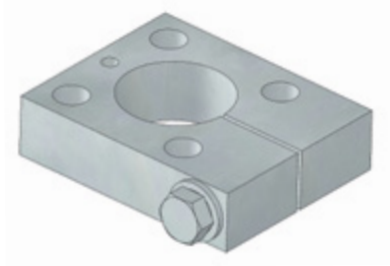
P 446 905 005

112

P 446 905 006

200

CLAMP - BEFESTIGUNGSELEMENT - MORSETTO



Notes

Material: CK45

STOCK



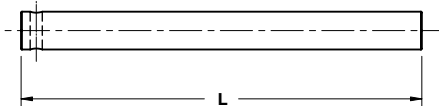
PSA CODE

P 446 932 718

PSA CODE

P 446 932 718

GUIDE POST - FÜHRUNGSSÄULE - COLONNA



Notes

Material: 16MnCr5 - HRC: 60÷62

STOCK



PSA CODE

P446 940 701

PSA CODE

L

P 446 940 700

265

P 446 940 701

350

P 446 940 702

400

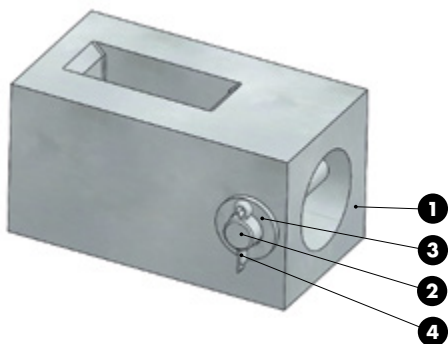
P 446 940 703

450

P 446 940 704

500

UNION BLOCK - BEFESTIGUNGSELEMENT - TASSELLO DI UNIONE



Notes

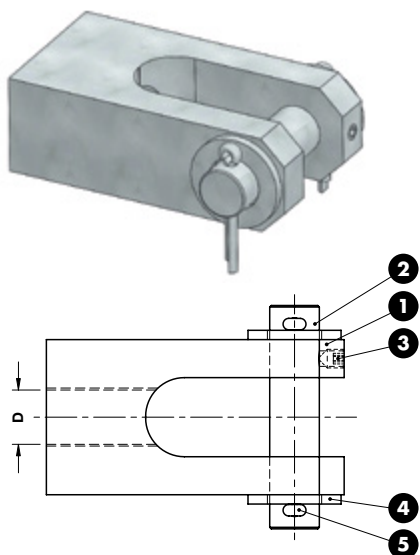
- 1 Material: 36NiCrMo4 - HV > 700
- 2 Material: CK45
- 3 DIN 126
- 4 DIN 94



ORDER EXAMPLE 	PSA CODE
	P 446 942 700
PSA CODE	
P 446 942 700	

Standard PSA

CLEVIS - GABELFÖRMIG - FORCELLA



Notes

- 1 2 Material: CK45
- 3 DIN 914
- 4 DIN 126
- 5 DIN 94



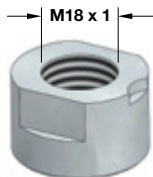
ORDER EXAMPLE 	PSA CODE
	X 652 131 326
PSA CODE	D
Z 000 228 984	M16 x 1,5
X 652 131 326	M20 x 1,5

SENSOR SUPPORT - HALTERUNG - SUPPORTO SENSORE

Notes

Material: CK45

STOCK



G 858 900 077-18



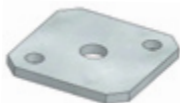
G 858 900 077-30



PSA CODE
G 858 900 077-30

PSA CODE
G 858 900 077-18
G 858 900 077-30

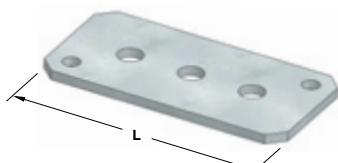
PLATE - GLEITPLATTE - PIASTRA



G 858 900 134-1



G 858 900 134-2



G 858 900 134-3

Notes

Material: CK45

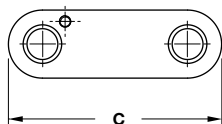
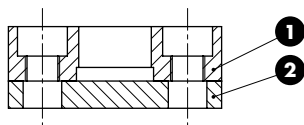
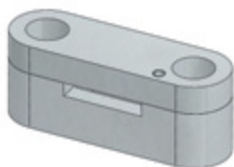
STOCK



PSA CODE
G 858 900 134-2

PSA CODE	L
G 858 900 134-1	80
G 858 900 134-2	120
G 858 900 134-3	160

STAMP RETAINER - HALTEPLATTE - PORTATIMBRI



Notes

1 2 Material: CK45

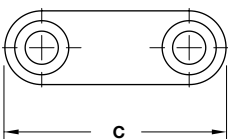
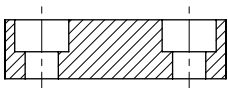


PSA CODE

P 399 391 701

PSA CODE	C	N° of punch
P 399 391 701	47	4
N 000 467 867	55	6
P 399 391 702	63	8
P 399 391 703	71	10

BACKING PLATE - DRUCK PLATTE - DISTANZIALE



Notes

Material: CK45



PSA CODE

N 000 467 866

PSA CODE	C	N° of punch
Z 000 151 091	47	4
N 000 467 866	56	6
Z 000 151 092	63	8
Z 000 151 093	71	10

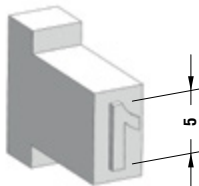
STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: X153CrMoV12

HRC: 54÷56

STOCK



PSA CODE

P 785 150 102

PSA CODE	Stamp	PSA CODE	Stamp	PSA CODE	Stamp	PSA CODE	Stamp
P 785 150 002	0 or O	Z 000 504 318	Dash "-"	P 785 172 104	I	P 785 153 202	T
P 785 150 102	1	N 000 464 606	Dash "_"	P 785 152 202	J	P 785 153 302	U
P 785 150 202	2	P 785 151 302	A	P 785 152 302	K	P 785 153 402	V
P 785 150 302	3	P 785 151 402	B	P 785 152 402	L	P 785 153 502	W
P 785 150 402	4	P 785 151 502	C	P 785 152 503	M	P 785 153 602	X
P 785 150 502	5	P 785 151 602	D	P 785 152 602	N	P 785 153 702	Y
P 785 150 602	6 or 9	P 785 151 702	E	P 785 152 802	P	P 785 153 802	Z
P 785 150 702	7	P 785 151 802	F	P 785 152 902	Q		
P 785 150 802	8	P 785 151 902	G	P 785 153 002	R		
P 785 289 002	Space	P 785 152 002	H	P 785 153 102	S		

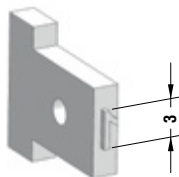
STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: X153CrMoV12

HRC: 54÷56

STOCK



Standard PSA



PSA CODE

Z 000 491 957

PSA CODE	Stamp	PSA CODE	Stamp	PSA CODE	Stamp	PSA CODE	Stamp
Z 000 491 893	0 or O	Z 000 504 319	Dash "-"	Z 000 491 973	I	Z 000 492 024	T
Z 000 491 957	1	N 000 467 865	Dash "*_"	Z 000 491 974	J	Z 000 492 025	U
Z 000 491 958	2	Z 000 491 965	A	Z 000 491 975	K	Z 000 492 026	V
Z 000 491 959	3	Z 000 491 966	B	Z 000 491 976	L	Z 000 492 027	W
Z 000 491 960	4	Z 000 491 967	C	Z 000 491 977	M	Z 000 492 028	X
Z 000 491 961	5	Z 000 491 968	D	Z 000 491 978	N	Z 000 492 029	Y
Z 000 491 962	6 or 9	Z 000 491 969	E	Z 000 491 979	P	Z 000 492 030	Z
Z 000 491 963	7	Z 000 491 970	F	Z 000 491 980	Q		
Z 000 491 964	8	Z 000 491 971	G	Z 000 492 022	R		
Z 000 492 408	Space	Z 000 491 972	H	Z 000 492 023	S		

STAMP RETAINER - HALTEPLATTE - PORTATIMBRI



Notes

1 **Material:** X100CDV5-T5
HRC: 56÷58


2 **Material:** XC70





G In case of symmetrical parts add G (Left) or D (Right)


D Für symmetrische Teile G (links) oder D (rechts) hinzufügen


D Per parti simmetriche aggiungere G (Sinistra) or D (Destra)


 **Z 000 198 171**



 **G** **Z 000 198 170**



 **D** **Z 000 198 169**



 **P 785 287 006**


 **G** **P 785 287 005**


 **D** **P 785 287 004**


  **Z 000 409 928**


 **G**  **Z 000 409 927**


 **D**  **Z 000 409 912**


 **Z 000 113 361**


 **G** **Z 000 113 360**

 **D** **Z 000 113 359**

 **N 001 162 511**

 **L** **N 001 162 513**

 **R** **N 001 162 514**

	PSA CODE
	P 785 287 005

PSA CODE	Automobiles	PSA CODE	Automobiles	PSA CODE	Automobiles
P 785 287 006	Citroën	Z 000 198 169	Peugeot	Z 000 409 927	Peugeot - Citroën
P 785 287 005	Citroën	Z 000 113 361	Peugeot - Citroën	Z 000 409 912	Peugeot - Citroën
P 785 287 004	Citroën	Z 000 113 360	Peugeot - Citroën	N 001 162 511	DS
Z 000 198 171	Peugeot	Z 000 113 359	Peugeot - Citroën	N 001 162 513	DS
Z 000 198 170	Peugeot	Z 000 409 928	Peugeot - Citroën	N 001 162 514	DS

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

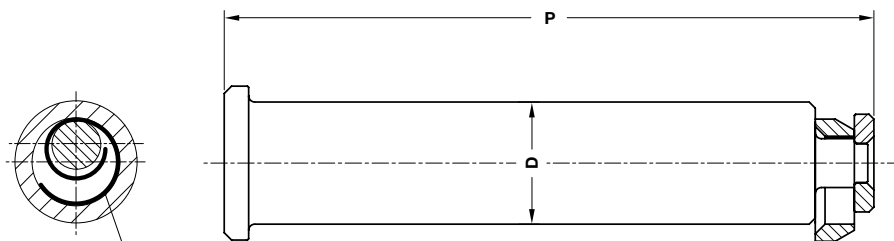
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: St52



The part is supplied complete of steel spring



PSA CODE

P 953 255 870

PSA CODE	Max load (kg)	Max die weight (kg)	P	D
P 953 254 770	6000	12000	154	32
P 953 255 870	9000	18000	197,75	40
P 953 256 670	14000	28000	247,50	50
P 953 257 470	22500	45000	309	63





OMCR®

STANDARD DIE COMPONENTS








STANDARD



RENAULT

EM24.50	EM24.50.400/D	EM24.50.400/D	EM24.52	EM24.52.100/J
				
	Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento	Lifting bracket Tragwange Staffa di Sollevamento		Guide post Führungssäule Colonna
	434	435		436
EM24.52.100/J	EM24.52.100/J	EM24.52.100/J	EM24.52.100/J	EM24.52.100/J
				
Afnor retaining ring Haltering Afnor Anello di tenuta Afnor	Retaining flange Sicherungsflansch Ritegno per colonna	Bush self-lubricating Führungsbuchse Boccola autolubrificante	Afnor toe clamp Afnor Haltestück Ritegno per boccola Afnor	Toe clamp for bush Haltestück für Buchse Ritegno per boccola
437	437	438	438	439
EM24.52.100/J	EM24.52.300/C	EM24.52.300/C	EM24.52.500/B	EM24.52.500/B
				
Locating cone Kegeldistanz Cono di centraggio	Wear plate Afnor Gleitplatte Afnor Piastra guida Afnor	Wear plate Afnor Gleitplatte Afnor Piastra guida Afnor	Angular guide Winkelleiste Guida angolare	Slider Führungsleite Guida
439	440	441	442	442
EM24.55	EM24.55.100/F	EM24.55.100/F	EM24.55.100/F	
				
	Retainer pin Steckbolzen Perno di arresto	Retainer pin Steckbolzen Perno di arresto	Shock absorber Halteelemente Ammortizzatore	
	443	443	444	

EM24.59	EM24.59.500/H	EM24.59.500/H	EM24.59.500/H	EM24.59.500/J
				
	Visual locator setting punch Endkontrollstempel Punzone di visualizzazione	Stamp retainer Halteplatte Portatimbri	Backing plate Druckplatte Distanziale	Stamp Buchstabenstempel Punzone marchio
	444	445	445	446

EM24.59.500/J

Stamp Buchstabenstempel Punzone marchio
447

Standard Renault

LIFTING PIN
TRAGBOLZEN MIT FALLRINGSICHERUNG
PERNO DI SOLLEVAMENTO



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

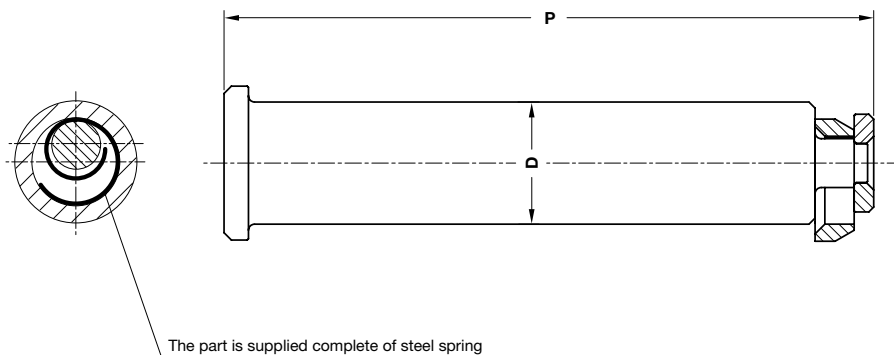
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: S152

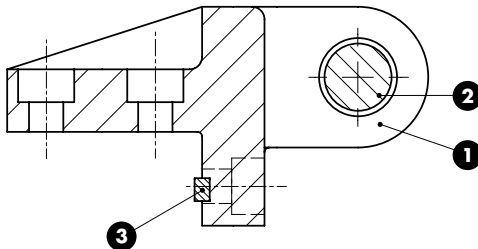
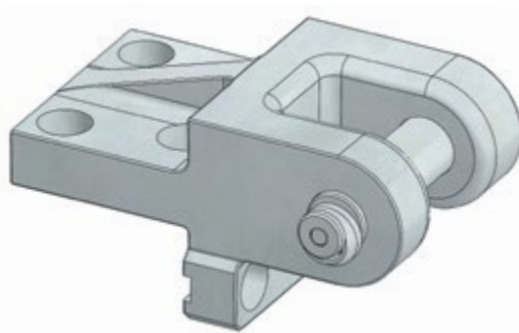


RENAULT CODE

R100 609 711

RENAULT CODE	Max load (kg)	Max die weight (kg)	P	D
R100 609 710	6000	12000	154	32
R100 609 711	9000	18000	197,75	40
R100 448 866	14000	28000	247,60	50
R100 609 712	22500	45000	309	63

LIFTING BRACKET WITH PIN AND KEYS
TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER
STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CHIAVETTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwangen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1** Material: CK45
800÷1000 N/mm²
- 2** Material: St52
- 3** Key DIN 6885

Screws not included



RENAULT CODE

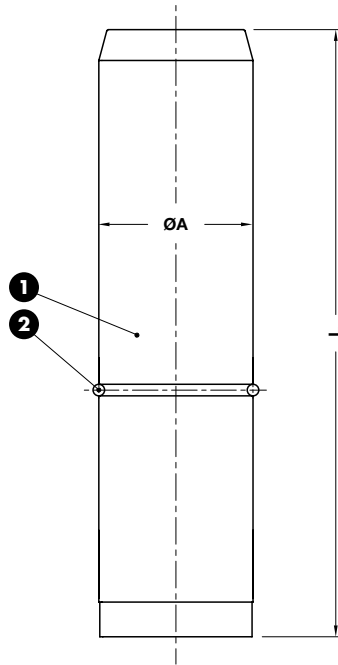
P 953 548 070

RENAULT CODE	Max load (kg)	Max die weight (kg)
P953 548 270	4000	8000
P953 549 070	6300	12600

GUIDE POST - FÜHRUNGSSÄULE - COLONNA

Notes

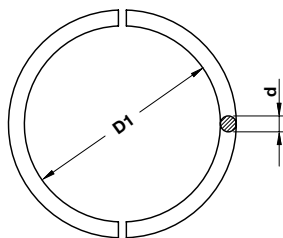
- 1 Material: 16MnCr5 - HRC: 60÷62
- 2 EM24.52.100/J



RENAULT CODE
P446 116 817

RENAULT CODE	A	L	RENAULT CODE	A	L
R100 018 363	25	125	P446 118 707	63	280
P446 116 817	32	140	P446 118 702	63	315
P446 116 815	32	160	P446 119 200	80	315
P446 116 816	32	200	P446 119 201	80	355
P446 118 100	50	224	R100 221 692	80	400
P446 118 101	50	280	P446 119 800	100	400
P446 118 701	63	250	P446 119 801	100	450

AFNOR RETAINING RING - HALTERING AFNOR - ANELLO DI TENUTA AFNOR



Notes

Material: Si37

STOCK

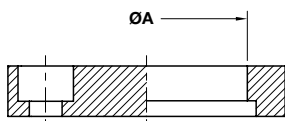


RENAULT CODE

P 446 180 200

RENAULT CODE	For guide post \varnothing	D1	d
P446 180 200	25	22,5	2.5
P446 180 300	32	28	4
P446 180 400	40	36	4
P446 180 500	50	46	4
P446 180 600	63	57	6
P446 180 700	80	74	6
P446 180 800	100	94	6

AFNOR CLAMPING FLANGE - SPANNFLANSCH AFNOR - RITEGNO PER COLONNA AFNOR



Notes

Material: CK45

STOCK

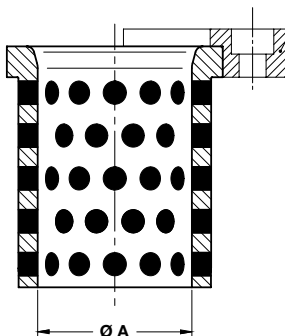


RENAULT CODE

P483 784 100

RENAULT CODE	A
P483 784 100	25
P483 784 600	32
P483 795 100	40
P483 795 401	50
P483 795 801	63
P483 796 001	80
P483 796 401	100

AFNOR BUSH SELF-LUBRICATING
AFNOR FÜHRUNGSBUCHSE
BOCCOLA AUTOLUBRIFICANTE AFNOR



Notes

Material: Bronze + Graphite
HB > 190



M321 534 500 ÷ M321 562 700



RENAULT CODE
M764 544 501

RENAULT CODE	A
M764 539 401	40
M764 544 501	50
M764 549 501	63
M764 554 601	80
X345 298 500	100

AFNOR TOE CLAMP - AFNOR HALTESTÜCK - RITEGNO PER BOCCOLA AFNOR



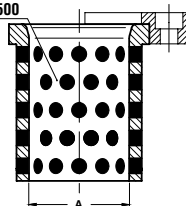
Notes

Material: CK45



Application example

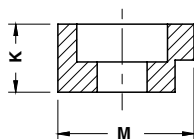
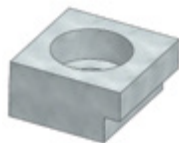
M764
X345 298 500



RENAULT CODE
M321 534 500

RENAULT CODE	A	RENAULT CODE	A
M321 534 500	25	M321 556 601	63
M321 544 501	32	M321 560 601	80
M321 548 501	40	M321 562 700	100
M321 552 601	50		

TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA



Notes

Material: CK45

STOCK

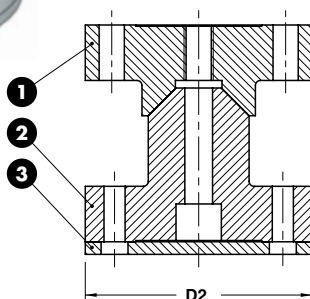
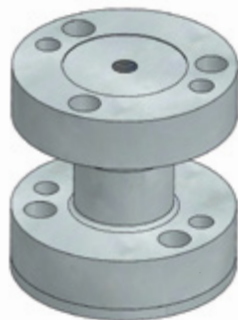


RENAULT CODE

R100 171 995

RENAULT CODE	K	M
R100 171 981	12	18
R100 171 995	16	22
R100 171 998	20	26
R100 172 000	25	26
R100 172 001	32	26

LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



Notes

1 2

Material: X155CrMo12 - HRC: 58÷60

3

Material: 36CrNiMo4

STOCK



RENAULT CODE

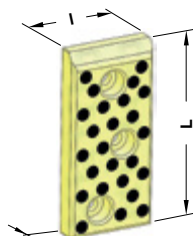
R901 138 223

RENAULT CODE	D2
R901 138 222	90
R901 138 223	110

WEAR PLATE SELF-LUBRICATING AFNOR
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR
PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR



FORM A



FORM B



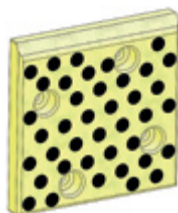
FORM C



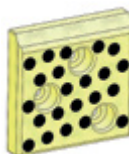
FORM E



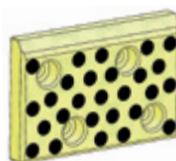
FORM F



FORM D



FORM G



FORM H

Notes

Material: Bronze + Graphite
HB > 190



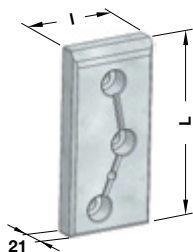
RENAULT CODE
R100 092 844

RENAULT CODE	I	L	FORM	RENAULT CODE	I	L	FORM
R100 092 843	70	100	A	R100 092 886	100	300	F
R100 092 844	70	150	B	R100 092 887	150	100	H
R100 092 845	70	200	C	R100 092 888	150	150	D
R100 092 846	100	100	G	R100 092 890	150	200	C
R100 092 883	100	150	D	R100 092 893	150	250	E
R100 092 884	100	200	C	R100 092 894	150	300	F
R100 092 885	100	250	E	R100 092 895	200	100	H

WEAR PLATE STEEL AFNOR
GLEITPLATTE STAHL AFNOR
PIASTRA GUIDA IN ACCIAIO AFNOR



FORM A

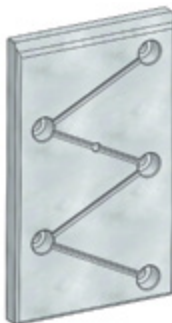


FORM B

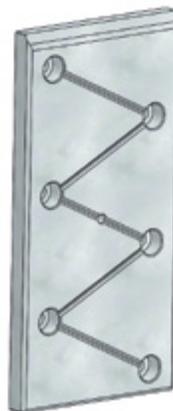
Notes
Material: 16MnCr5
HRC: 58÷60



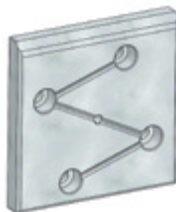
FORM C



FORM E



FORM F



FORM D



FORM G



FORM H

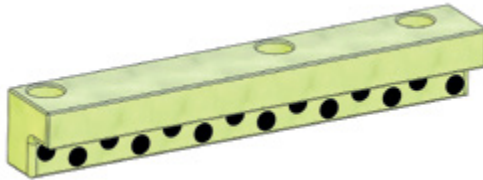
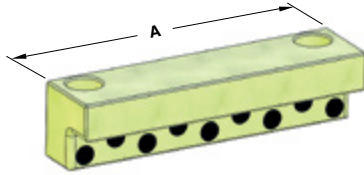


RENAULT CODE
P446 626 558

RENAULT CODE	I	L	FORM	RENAULT CODE	I	L	FORM
P446 625 854	70	100	A	P446 627 754	100	300	F
P446 626 558	70	150	B	P446 626 560	150	100	H
P446 627 059	70	200	C	P446 626 561	150	150	D
P446 625 855	100	100	G	P446 627 061	150	200	C
P446 626 559	100	150	D	P446 627 455	150	250	E
P446 627 060	100	200	C	P446 627 755	150	300	F
P446 627 454	100	250	E	P446 627 062	200	100	H

Standard Renault

ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE



Notes

Material: Bronze + Graphite
HB > 190

STOCK



RENAULT CODE

M764 523 701

RENAULT CODE

A

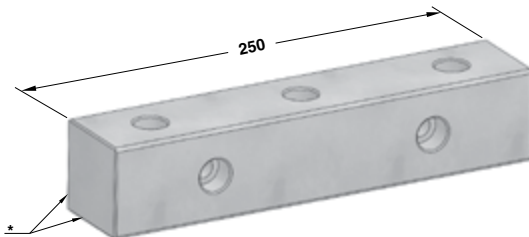
M764 523 701

250

M764 523 702

160

SLIDER - FÜHRUNGSLEISTE - GUIDA



Notes

Material: 16MnCr5
HRC: 60÷62



10



* Sides to rework during adjusting
Anpassung der Flächen zur Abstimmung
Lati da rilavorare in adattamento



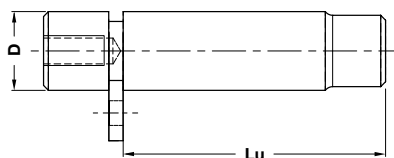
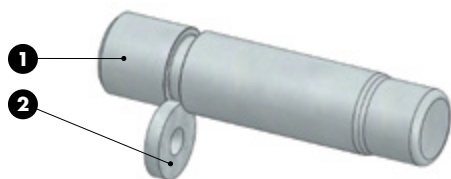
RENAULT CODE

A07.20.50250

RENAULT CODE

A07.20.50250

RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Notes
1 2 Material: CK45

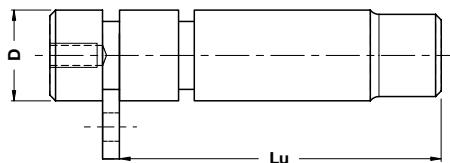
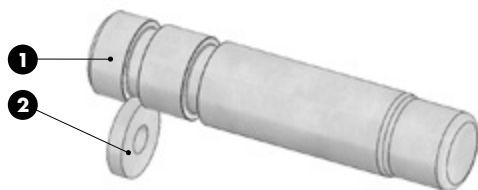
STOCK

ORDER EXAMPLE
RENAULT CODE
R100 306 190

RENAULT CODE	D	Lu	RENAULT CODE	D	Lu	RENAULT CODE	D	Lu
R100 306 188	20	81	R100 306 198	32	148	R100 306 209	50	220
R100 306 190	25	81	R100 306 201	40	132	R100 306 210	63	210
R100 306 191	25	98	R100 306 204	40	192	R100 306 213	63	250
R100 306 194	32	103	R100 306 207	50	165	R100 357 232	80	210

Standard Renault

RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



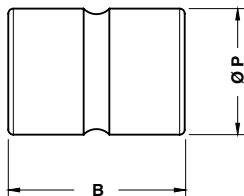
Notes
1 2 Material: CK45

STOCK

ORDER EXAMPLE
RENAULT CODE
R100 306 217

RENAULT CODE	D	Lu	RENAULT CODE	D	Lu	RENAULT CODE	D	Lu
R100 306 215	25	81	R100 306 220	40	132	R100 306 226	63	210
R100 306 217	25	98	R100 306 221	40	192	R100 306 227	63	250
R100 306 218	32	103	R100 306 223	50	165			
R100 306 219	32	148	R100 306 225	50	220			

SHOCK ABSORBER - HALTEELEMENTE - AMMORTIZZATORE



Without silicone
Ohne silikon
Senza silicone

Notes

Material: Elastomer 92SH

STOCK

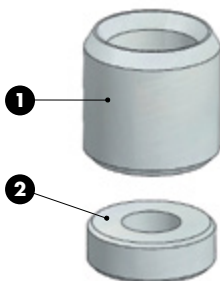


RENAULT CODE

X346 566 801

RENAULT CODE	B	P
X346 566 000	45	25
X346 566 801	50	32
X346 567 400	60	40
X346 568 100	70	50
X346 568 700	80	63
X346 569 201	90	80

VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



Notes

- Material:** X205Cr12KU
HRC: 60÷62
- Material:** CK45

STOCK



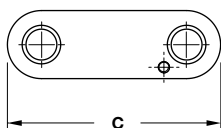
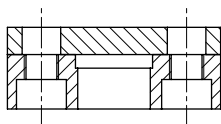
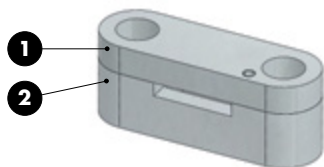
RENAULT CODE

P785 283 005

RENAULT CODE

P785 283 005

STAMP RETAINER - HALTEPLATTE - PORTATIMBRI



Notes

1 **2** Material: CK45

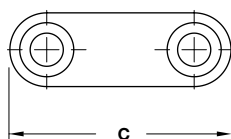
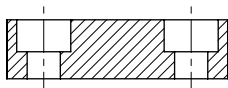


RENAULT CODE

R100 197 803

RENAULT CODE	C	N° of punch
R100 050 232	47	4
R100 197 803	55	6
R100 050 234	63	8
R100 352 214	71	10

BACKING PLATE - DRUCK PLATTE - DISTANZIALE



Notes

Material: CK45



RENAULT CODE

R100 197 805

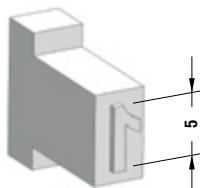
RENAULT CODE	C	N° of punch
R100 050 235	47	4
R100 197 805	56	6
R100 050 236	63	8
R100 352 230	71	10

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: X153CrMoV12**HRC:** 54÷56

STOCK



RENAULT CODE

P785 150 102

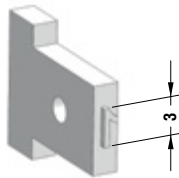
RENAULT CODE	Stamp	RENAULT CODE	Stamp	RENAULT CODE	Stamp	RENAULT CODE	Stamp
P785 150 002	0	P785 289 002	Spacer	P785 152 202	J	P785 153 102	S
P785 150 102	1	P785 151 302	A	P785 152 302	K	P785 153 202	T
P785 150 202	2	P785 151 402	B	P785 152 402	L	P785 153 302	U
P785 150 302	3	P785 151 502	C	P785 152 503	M	P785 153 402	V
P785 150 402	4	P785 151 602	D	P785 152 602	N	P785 153 502	W
P785 150 502	5	P785 151 702	E	P785 150 002	O	P785 153 602	X
P785 150 602	6 or 9	P785 151 802	F	P785 152 802	P	P785 153 702	Y
P785 150 702	7	P785 151 902	G	P785 152 902	Q	P785 153 802	Z
P785 150 802	8	P785 152 002	H	P785 153 002	R		

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

Notes

Material: X153CrMoV12**HRC:** 54÷56

STOCK



	RENAULT CODE
	P785 154 103

RENAULT CODE	Stamp	RENAULT CODE	Stamp	RENAULT CODE	Stamp	RENAULT CODE	Stamp
P785 154 003	0	P785 155 003	Spacer	P785 155 308	J	P785 140 952	S
P785 154 103	1	P785 155 300	A	P785 155 309	K	P785 140 953	T
P785 154 203	2	P785 155 301	B	P785 155 310	L	P785 140 954	U
P785 154 303	3	P785 155 302	C	P785 155 311	M	P785 140 955	V
P785 154 403	4	P785 155 303	D	P785 155 312	N	P785 140 956	W
P785 154 503	5	P785 155 304	E	P785 155 313	O	P785 140 957	X
P785 154 603	6 or 9	P785 155 305	F	P785 155 314	P	P785 140 958	Y
P785 154 703	7	P785 155 306	G	P785 140 950	Q	P785 140 959	Z
P785 154 803	8	P785 155 307	H	P785 140 951	R		

CAB





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STANDARD DIE COMPONENTS



STANDARD














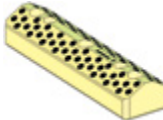
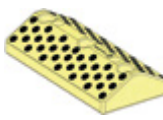







Audi

<p>39D 506</p> 	<p>39D 528</p> 	<p>39D 543</p> 	<p>39D 571</p> 	<p>39D 578</p> 
<p>Sleeve Führungseinheit Canotto Guida</p>	<p>Gage Einweiser Riferimento</p>	<p>Brace Verlascung Bretella</p>	<p>Tie Rod Führungsbolzen Tirante</p>	<p>Backing plate Distanzkappe Reazione per cilindro</p>
456	456	457	457	458
<p>39D 578</p> 	<p>39D 582</p> 	<p>39D 592</p> 	<p>39D 599</p> 	<p>39D 599</p> 
<p>Spacing bar Abstellbolzen Distanziale</p>	<p>Angular guide Winkelleiste Guida angolare</p>	<p>Spacer Distanz Distanziale</p>	<p>Tie rod Druck und Zuganker Tirante</p>	<p>Tie rod Druck und Zuganker Tirante</p>
459	460	461	462	462
<p>39D 599</p> 	<p>39D 630</p> 	<p>39D 630</p> 	<p>39D 630</p> 	<p>39D 638</p> 
<p>Tie rod Druck und Zuganker Tirante</p>	<p>Slide stop block Schieberranschlag Arresto slitta</p>	<p>Slide stop block Schieberranschlag Arresto slitta</p>	<p>Slide stop block Schieberranschlag Arresto slitta</p>	<p>Air pin Druckbolzen Candela</p>
463	463	464	464	465
<p>39D 638</p> 	<p>39D 639</p> 	<p>39D 639</p> 	<p>39D 649</p> 	<p>39D 650</p> 
<p>Air pin Druckbolzen Candela</p>	<p>Support for sensor Lagekontrolle für Platinen Supporto sensore</p>	<p>Gage for sensor Einweiser für Teillagekontrolle Riferimento per sensore</p>	<p>Shim Spannschlitz Spessore</p>	<p>Retainer bolt Haltebolzen Gruppo tirante</p>
466	467	467	468	469

<p>39D 651</p>  <p>Polyuretan spring Federblock Ammortizzatore</p> <p>470</p>	<p>39D 807</p>  <p>Gage Einweiser Riferimento</p> <p>470</p>	<p>39D 807</p>  <p>Gage Einweiser Riferimento</p> <p>471</p>	<p>39D 807</p>  <p>Gage Einweiser Riferimento</p> <p>471</p>	<p>39D 807</p>  <p>Gage Einweiser Riferimento</p> <p>472</p>
<p>39D 826</p>  <p>Key Passfeder Chiavetta</p> <p>473</p>	<p>39D 828</p>  <p>Spacer group Ansatzbuchse Gruppo distanziale</p> <p>473</p>	<p>39D 828</p>  <p>Washer Scheibe Rondella</p> <p>474</p>	<p>39D 828</p>  <p>Elastomer washer Dämpfungscheibe Ammortizzatore</p> <p>474</p>	<p>39D 828</p>  <p>Spacer group Ansatzbuchse Gruppo distanziale</p> <p>475</p>
<p>39D 839</p>  <p>Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno</p> <p>476</p>	<p>39D 847</p>  <p>Block Druckplatten für Gasdruckfedern Reazione per cilindro</p> <p>477</p>	<p>39D 847</p>  <p>Block Druckplatten für Gasdruckfedern Reazione per cilindro</p> <p>477</p>	<p>39D 851</p>  <p>Sliding pin Führungssäule Perno scorrevole</p> <p>478</p>	<p>39D 851</p>  <p>Sliding pin Führungssäule Perno scorrevole</p> <p>478</p>
<p>39D 854</p>  <p>Pad retainer pin Steckbolzen Perno di arresto</p> <p>479</p>	<p>39D 854</p>  <p>Pad retainer pin Steckbolzen Perno di arresto</p> <p>479</p>	<p>39D 855</p>  <p>Bush Dämpfungsbuchse Boccola</p> <p>480</p>	<p>39D 856</p>  <p>Retainer Sicherungsplatte Piastrina</p> <p>480</p>	<p>39D 860</p>  <p>Bush DIN 9834 Buchse DIN 9834 Boccola DIN 9834</p> <p>481</p>

<p>39D 861</p>  <p>Toe clamp Haltestück Ritegno per boccolla</p> <p>481</p>	<p>39D 862</p>  <p>Guide post DIN 9833 Führungssäule DIN 9833 Colonna guida DIN 9833</p> <p>482</p>	<p>39D 862</p>  <p>Guide post DIN 9833 Führungssäule DIN 9833 Colonna guida DIN 9833</p> <p>483</p>	<p>39D 863</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>484</p>	<p>39D 863</p>  <p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p> <p>485</p>
<p>39D 866</p>  <p>Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento</p> <p>486</p>	<p>39D 866</p>  <p>Lifting pin Tragbolzen mit Fallringsicherung Perno di sollevamento</p> <p>487</p>	<p>39D 867</p>  <p>Bush for lifting pin Buchse für Tragbolzen Boccolla per perno di sollevamento</p> <p>488</p>	<p>39D 869</p>  <p>Washer Scheibe Rondella</p> <p>489</p>	<p>39D 870</p>  <p>Air cylinder fixing Verschraubung Fissaggio cilindro</p> <p>489</p>
<p>39D 872</p>  <p>Cam roller Rollenbock Supporto con rullo</p> <p>490</p>	<p>39D 873</p>  <p>Acceleration cam Schiebervorbeschleunigung Camma di accelerazione</p> <p>491</p>	<p>39D 876</p>  <p>Lifting bracket VDI 3366 Tragzapfen VDI 336 Staffa di sollevamento VDI 336</p> <p>492</p>	<p>39D 882</p>  <p>Air cylinder fixing Ziehteilheber Fissaggio cilindro</p> <p>493</p>	<p>39D 887</p>  <p>Air cylinder adapter Teilheber Adattatore per cilindro</p> <p>493</p>
<p>39D 887</p>  <p>Air cylinder adapter Teilheber Adattatore per cilindro</p> <p>493</p>	<p>39D 890</p>  <p>Wear plate self-lubricating Deckleiste bronze mit festschmierstoff Piastra guida autolubrificante</p> <p>494</p>	<p>39D 892</p>  <p>Wear plate Deckleiste Schieberführung Piastra guida</p> <p>495</p>	<p>39D 892</p>  <p>Guide bar VDI 3357 Führungslaste VDI 3357 Lardone VDI 3357</p> <p>495</p>	<p>39D 894</p>  <p>Cam dwell wear plate VDI 3357 Überlaufkeile VDI 3357 Cuneo VDI 3357</p> <p>496</p>

<p>39D 894</p> 	<p>39D 895</p> 	<p>39D 896</p> 	<p>39D 896</p> 	<p>39D 896</p> 
<p>Cam dwell wear plate VDI 3357 Überlaufkeile VDI 3357 Cuneo VDI 3357</p>	<p>Key Passfeder Chiavetta</p>	<p>Compensation pin group Ausgleichsdruckbolzen Gruppo perno di compensazione</p>	<p>Compensation pin group Ausgleichsdruckbolzen Gruppo perno di compensazione</p>	<p>Compensation pin group Ausgleichsdruckbolzen Gruppo perno di compensazione</p>
<p>497</p>	<p>498</p>	<p>499</p>	<p>499</p>	<p>500</p>
<p>39D 896</p> 	<p>39D 896</p> 	<p>39D 896</p> 	<p>39D 896</p> 	<p>39D 896</p> 
<p>Compensation pin group Ausgleichsdruckbolzen Gruppo perno di compensazione</p>	<p>Backing plate Distanzkappe Reazione per cilindro</p>	<p>Retainer Sicherungsplatte Piastrina</p>	<p>Retainer Sicherungsplatte Piastrina</p>	<p>Retainer Sicherungsplatte Piastrina</p>
<p>500</p>	<p>501</p>	<p>501</p>	<p>501</p>	<p>502</p>
<p>39D 951</p> 	<p>39D 952</p> 	<p>39D 952</p> 	<p>39D 952</p> 	<p>39D 952</p> 
<p>Air pin Unterluftbolzen Candela</p>	<p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p>	<p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357</p>	<p>"V" driver VDI 3357 Prismenführung mit festschmierstoff VDI 3357 Guida a "V" VDI 3357</p>	<p>"V" driver VDI 3357 Prismenführung mit festschmierstoff VDI 3357 Guida a "V" VDI 3357</p>
<p>502</p>	<p>503</p>	<p>503</p>	<p>504</p>	<p>504</p>
<p>39D 954</p> 	<p>39D 954</p> 	<p>39D 956</p> 	<p>39D 958</p> 	<p>39D 969</p> 
<p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p>	<p>Wear plate VDI 3357 Gleitplatte VDI 3357 Piastra guida VDI 3357</p>	<p>Guide bush Führungsbuchse Boccola autolubrificante</p>	<p>Stop pin Haltebolzen Perno di arresto</p>	<p>Guide post DIN 9833 Führungssäule DIN 9833 Colonna guida tipo DIN 9833</p>
<p>505</p>	<p>506</p>	<p>507</p>	<p>507</p>	<p>508</p>

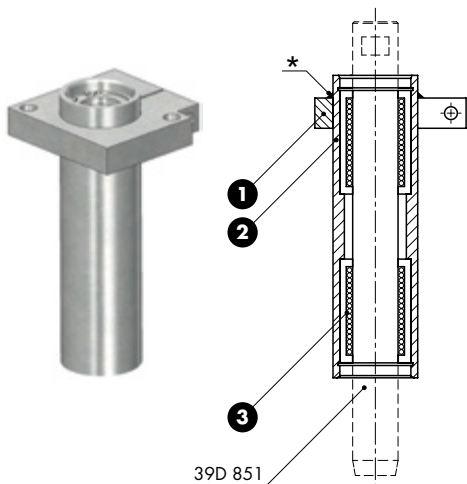
<p>39D 972</p> 	<p>39D 976</p> 	<p>39D 993</p> 	<p>39D 995</p> 	<p>39D 995</p> 
<p>Lifter Federbolzen Sollevatore</p>	<p>Spacer plate toothed Distanzplatte gezahnt Tassello di compensazione</p>	<p>Plate for sensor Halterung Piastrina portasensore</p>	<p>Spacer Distanzstück Distanziale</p>	<p>Washer/stop block Scheibe/halteplatte Rondella/tassello</p>
<p>509</p>	<p>509</p>	<p>510</p>	<p>510</p>	<p>511</p>
<p>39D 995</p> 	<p>39D 1392</p> 	<p>39D 1430</p> 	<p>39V 863</p> 	<p>39V 1071</p> 
<p>Retainer pin Ziehteilheber Perno con rondella</p>	<p>Distributor Verteilerblocke Distributore</p>	<p>Distributor Verteilerblocke Distributore</p>	<p>Visual locator setting punch Stempel f. entgasungsnoepfen Punzone di visualizzazione</p>	<p>Threaded bush Genwindebuchse Boccola filettata</p>
<p>511</p>	<p>512</p>	<p>512</p>	<p>513</p>	<p>513</p>
<p>39V 1159</p> 	<p>39V 1162</p> 	<p>39V 1162</p> 	<p>39V 1168</p> 	<p>39V 1178</p> 
<p>Gib VDI 3387 Führungslasche VDI 3387 Guida VDI 3387</p>	<p>Stop block Abstandsblock Distanziale</p>	<p>Stop block Abstandsblock Distanziale</p>	<p>Locating cone Kegeldistanz Cono di centraggio</p>	<p>Stripper for blanking dies Abstreifer für Platinschnitte Estrattore per stampi</p>
<p>514</p>	<p>515</p>	<p>515</p>	<p>516</p>	<p>517</p>
<p>39V 1199</p> 	<p>39V 1205</p> 	<p>39V 1234</p> 	<p>39V 1242</p> 	<p>39V 1254</p> 
<p>Lifting pin VDI 3366 Tragschraube VDI 3366 Perno di sollevamento VDI 3366</p>	<p>Locating pin Zentrierbolzen Centraggio</p>	<p>Ejector Abdrückstift Espulsore</p>	<p>Gage Einweiser Riferimento</p>	<p>Locating block Fangbacke Tassello di centraggio</p>
<p>518</p>	<p>518</p>	<p>519</p>	<p>520</p>	<p>520</p>

39V 1304	39V 1304	39V 1569	39V 1569	39V 1569
Key Passfeder Chiavetta	Key Passfeder Chiavetta	Roller stock lifter Federnde laufrolle Rullino sollevamento nastro	Roller stock lifter Federnde laufrolle Rullino sollevamento nastro	Roller stock lifter Federnde laufrolle Rullino sollevamento nastro
521	521	522	523	524

Standard VW/Audi

1D 301260
Gage with position control Klappeinweiser mit Lagekontrolle Riferimento con controllo di posizione
525

SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA



Notes

- 1 Material: St37
- 2 Material: CK45
- 3 Linear ball bearing



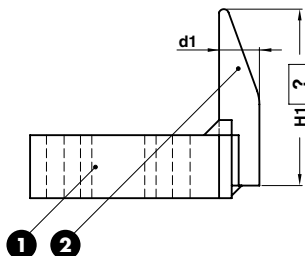
* Fixing at assembly with 3 spot welding
Bei der montage mit schweißpunkten befestigen
Fissare al montaggio con tre punti di saldatura



VW CODE
39D 506/10

VW CODE
39D 506/10

GAGE - EINWEISER - RIFERIMENTO



Notes

- 1 Material: St37
- 2 Material: CK15
HRC: 58÷60 N/mm²

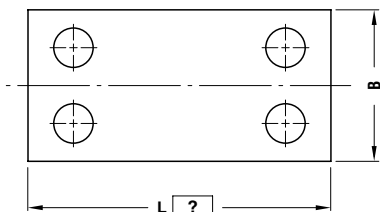
Only for replacement
Nur für Reparatur
Solo per riparazione



VW CODE	H1=200
39D 528/3	200

VW CODE	d1
39D 528/1	16
39D 528/2	20
39D 528/3	25

BRACE - VERLASCHUNG - BRETELLA



Notes

Material: CK45

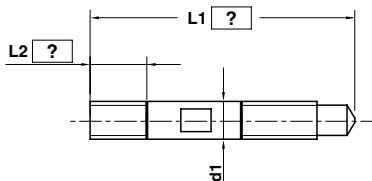


VW CODE	L=200
39D 543/2	200

VW CODE	B
39D 543/1	80
39D 543/2	100

Standard VW/Audi

TIE ROD - FÜHRUNGSBOLZEN - TIRANTE



Notes

Material: 9SMn28



VW CODE	L1=300	L2=100
39D 571/13	300	100

VW CODE	d1
39D 571/10	10
39D 571/13	13
39D 571/16	16
39D 571/20	20

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: 16MnCr5 - **HRC:** 60÷62
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



VW CODE
 39D 578/2

VW CODE

39D 578/2

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: CK45

STOCK



VW CODE
 39D 578/56

VW CODE

d1

39D 578/55

90

39D 578/56

100

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: CK45

STOCK

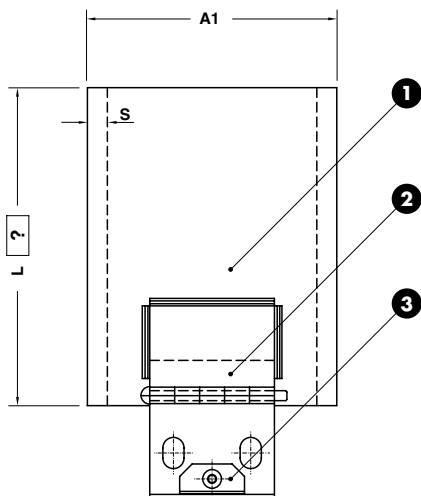
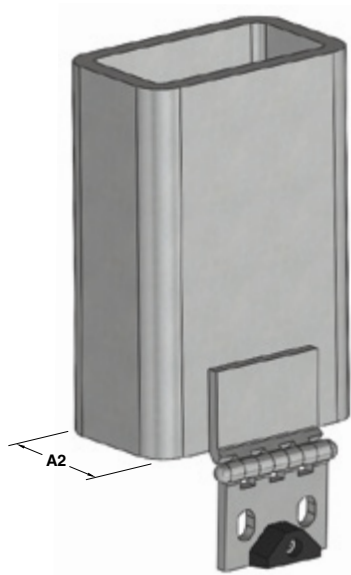


VW CODE
 39D 578/65

VW CODE

39D 578/65

SPACING BAR - ABSTELLBOLZEN - DISTANZIALE



L max. = 400

Notes

- 1 **Material:** St37
- 2 AHA Hinge***
- 3 **Material:** Elastomer 68SH



* To storage dies without gas springs
 Zum Abstellen von Presswerkzeugen ohne Gasdruckfedern
 Per il deposito di stampi senza molla a gas

** To storage dies with gas springs
 Zum Abstellen von Presswerkzeugen mit Gasdruckfedern
 Per il deposito di stampi con molla a gas

*** Scharnier
 Cerniera

Standard VW/Audi

ORDER EXAMPLE	VW CODE	L=150
	39D 578/30	150

VW CODE	A1	A2	S
39D 578/30*	100	60	7-8
39D 578/40**	70	50	3

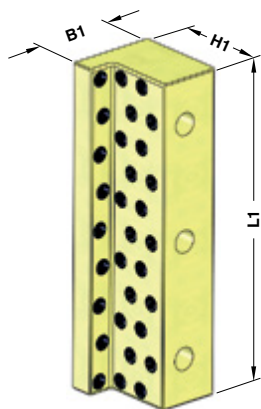
ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

Notes

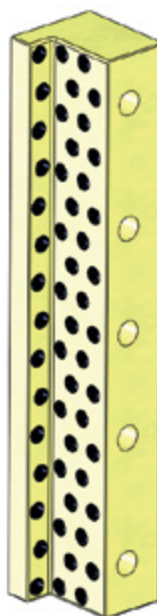
Material: Bronze + Graphite
HB > 190



FORM A



FORM B



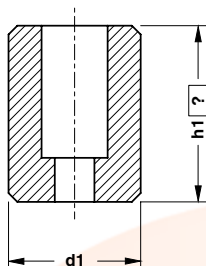
FORM C



VW CODE
 39D 582/1

VW CODE	L1	B1	H1	FORM	VW CODE	L1	B1	H1	FORM
39D 582/1	125	25	15	A	39D 582/12	200	70	75	A
39D 582/2	160	25	15	A	39D 582/13	250	70	75	B
39D 582/3	125	32	30	A	39D 582/15	400	70	75	C
39D 582/4	160	32	30	A	39D 582/16	160	85	90	A
39D 582/5	200	32	30	A	39D 582/17	200	85	90	A
39D 582/6	100	55	55	A	39D 582/18	250	85	90	B
39D 582/7	160	55	55	A	39D 582/20	400	85	90	C
39D 582/11	160	70	75	A					

SPACER - DISTANZ - DISTANZIALE



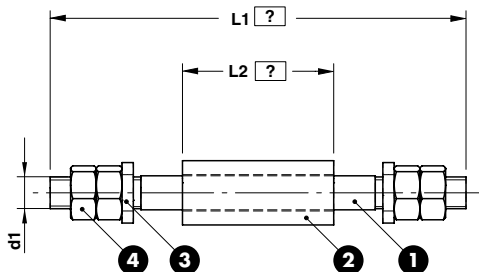
Notes
Material: CK45



	VW CODE	h1=30
	39D 592/11	30
VW CODE		d1
39D 592/10	25	
39D 592/11	30	
39D 592/12	40	
39D 592/13	50	

Standard VW/Audi

TIE ROD - DRUCK UND ZUGANKER - TIRANTE



Notes

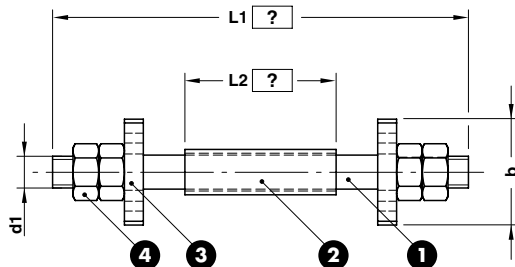
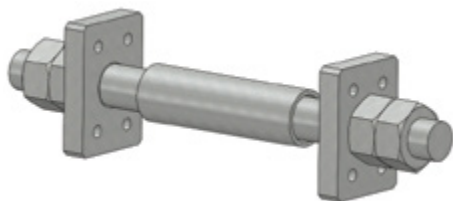
- 1 Material: 34Cr4
- 2 Material: St37
- 3 Material: CK45
- 4 DIN 934



ORDER EXAMPLE	VW CODE	L1=550	L2=200
	39D 599/1	550	200

VW CODE	d1
39D 599/1	M42x1,5

TIE ROD - DRUCK UND ZUGANKER - TIRANTE



Notes

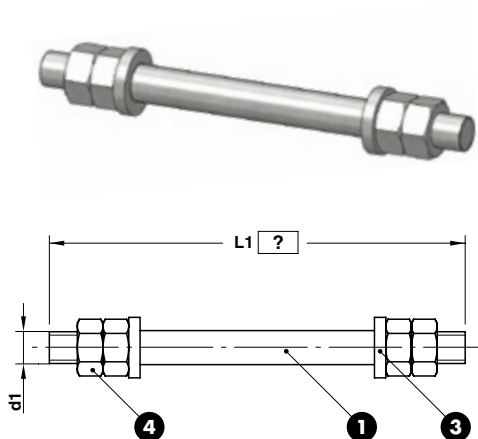
- 1 Material: 34Cr4
- 2 Material: St37
- 3 Material: CK45
- 4 DIN 934



ORDER EXAMPLE	VW CODE	L1=550	L2=200
	39D 599/2B	550	200

VW CODE	b	d1
39D 599/2	140	M42x1,5
39D 599/5	160	M42x1,5

TIE ROD - DRUCK UND ZUGANKER - TIRANTE



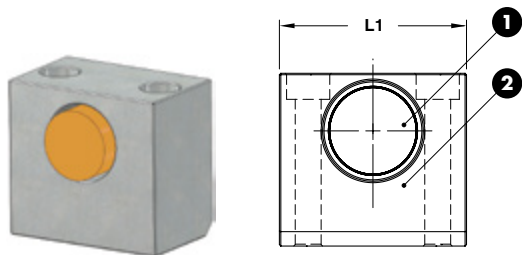
- Notes**
- 1 Material: 34Cr4
 - 3 Material: CK45
 - 4 DIN 934



ORDER EXAMPLE	VW CODE	L1=550
	39D 599/3	550
VW CODE		d1
39D 599/3		M42 x 1.5
39D 599/4		M56 x 1.5

Standard VW/Audi

SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA

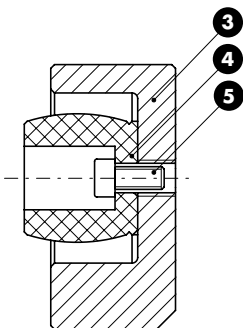
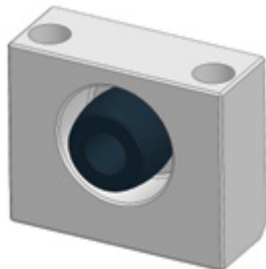


- Notes**
- 1 Material: CK45
 - 2 Material: Elastomer 90 SH
- Only for replacement
Nur für Reparatur
Solo per riparazione



ORDER EXAMPLE	VW CODE	
	39D 630/8	
VW CODE		L1
39D 630/8		65
39D 630/10		75

SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA

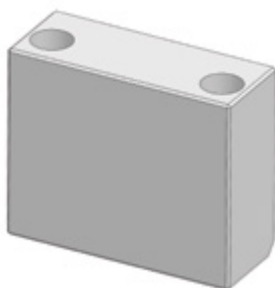


Notes	
3	Material: CK45
4	Material: CO-Polyester Elastomer
5	M6x12 DIN 912



	VW CODE
	39D 630/20
VW CODE	
39D 630/20	

SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA



Notes	
Material: CK45	

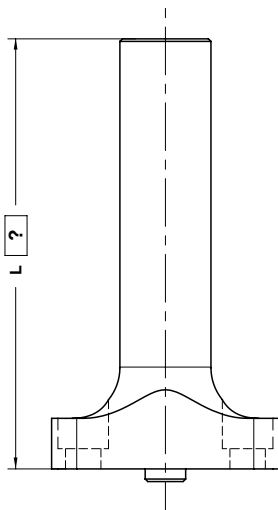


	VW CODE
	39D 630/21
VW CODE	
39D 630/21	

AIR PIN - DRUCKBOLZEN - CANDELA



39D 638/2



L max = 360

Notes

Material: CK45 - 800÷1000 N/mm²

Only for replacement

Nur für Reparatur

Solo per riparazione



VW CODE	L=150
39D 638/3	150

VW CODE

39D 638/2
39D 638/3
39D 638/4
39D 638/5



39D 638/3



39D 638/4



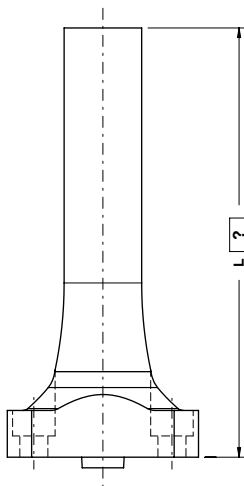
39D 638/5

Standard VW/Audi

AIR PIN - DRUCKBOLZEN - CANDELA



39D 638/10



L max = 360

Notes

Material: 42CrMo4 - 800÷1000 N/mm²



39D 638/11



39D 638/12



VW CODE	L=150
39D 638/11	150

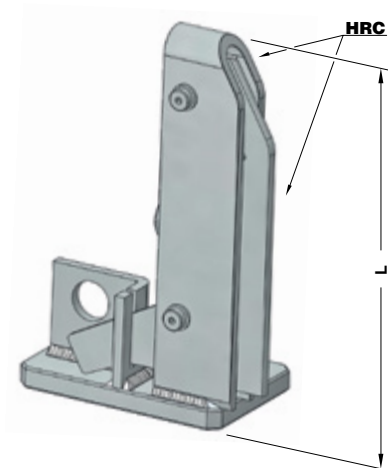
VW CODE

39D 638/10

39D 638/11

39D 638/12

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



Notes

Material: Steel - **HRC:** 58÷60

STOCK

* As shown in drawing
Gemäß zeichnung
Come a disegno

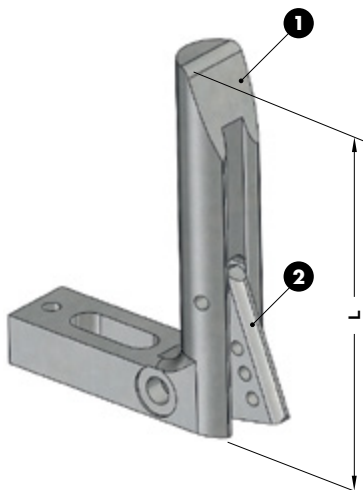
** Opposite to drawing
Spiegelverkehrt
Opposto al disegno



VW CODE
39D 639/3

VW CODE	L	SIDE
39D 639/1	145	LEFT **
39D 639/2	145	RIGHT *
39D 639/3	185	LEFT **
39D 639/4	185	RIGHT *
39D 639/25	225	LEFT **
39D 639/26	225	RIGHT *

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE



Notes

1 **Materials:** CK60 - **HRC:** 50÷55

2 **Materials:** St37 - **HRC:** 58÷60

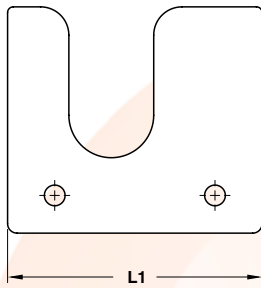
STOCK



VW CODE
39D 639/22

VW CODE	L
39D 639/20	120
39D 639/21	150
39D 639/22	180
39D 639/23	250

SHIM - SPANNSCHLITZ - SPESSORE



Notes

Material: St52

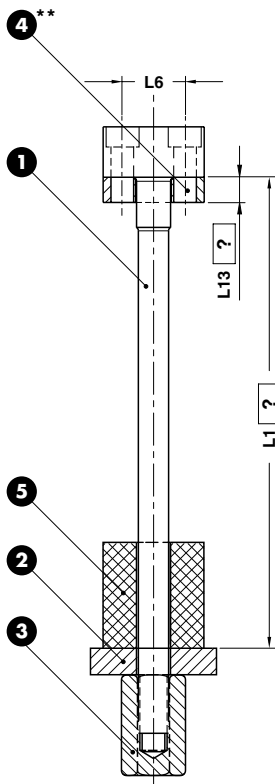
STOCK



VW CODE
39D 649/2

VW CODE	L1
39D 649/1	110
39D 649/2	135
39D 649/3	185
39D 649/4	160

RETAINER BOLT - HALTEBOLZEN - GRUPPO TIRANTE



Respect the max. load
 Maximale Nutzlast beachten
 Rispettare il carico max.

Notes

- 1 Material:** 34Cr4
- 2 3 4 Material:** CK45
- 5 Material:** Elastomer Black 68 SH
 Elastomer Red 90 SH

Only for replacement
 Nur für Reparatur
 Solo per riparazione



*Max. capacity load
 Belastbarkeit max.
 Portata massima

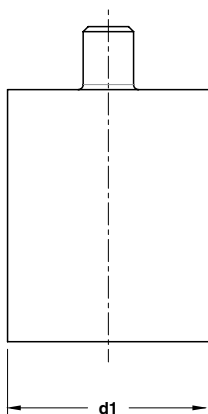
**Optional washer, L13=?
 Scheibe optional, L13=?
 Rondella opzionale, L13=?

Standard VW/Audi

ORDER EXAMPLE	VW CODE	L1=190	L13=10**
	39D 650/32	190	10

VW CODE	L6	MCL*(N)	Elastomer Shore (SH)	VW CODE	L6	MCL*(N)	Elastomer Shore (SH)
39D 650/1	-	15000	68	39D 650/31	25	15000	68
39D 650/2	-	25000	68	39D 650/32	30	25000	68
39D 650/3	-	25000	68	39D 650/33	30	25000	68
39D 650/4	-	45000	68	39D 650/34	34	45000	68
39D 650/5	-	15000	90	39D 650/35	25	15000	90
39D 650/6	-	25000	90	39D 650/36	30	25000	90
39D 650/7	-	25000	90	39D 650/37	30	25000	90
39D 650/8	-	45000	90	39D 650/38	34	45000	90

POLYURETAN SPRING - FEDERBLOCK - AMMORTIZZATORE



Notes

Material: Elastomer 92 SH

STOCK

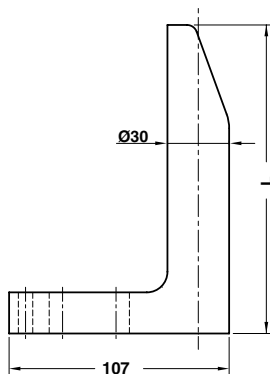


VW CODE

39D 651/2

VW CODE	d1
39D 651/1	63
39D 651/2	80
39D 651/3	100
39D 651/4	125

GAGE - EINWEISER - RIFERIMENTO



Notes

Material: CK60

STOCK

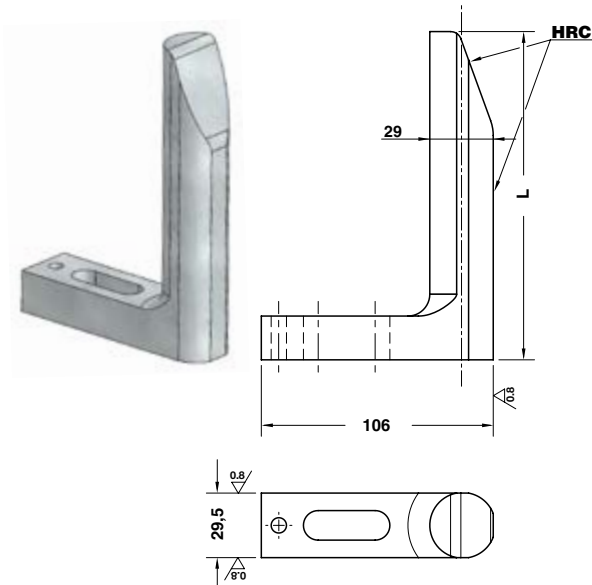


VW CODE

39D 807/1 L=90

VW CODE	L
39D 807/1 L=65	65
39D 807/1 L=90	90
39D 807/1 L=120	120
39D 807/1 L=150	150
39D 807/1 L=180	180
39D 807/1 L=250	250
39D 807/1 L=300	300
39D 807/1 L=350	350

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes
Material: CK60 - HRC: 58÷60

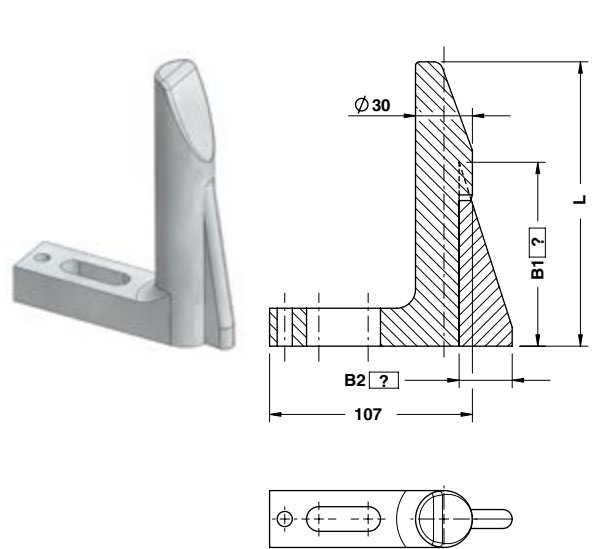


ORDER EXAMPLE	VW CODE
	39D 807/2 L=90

VW CODE	L
39D 807/2 L=65	65
39D 807/2 L=90	90
39D 807/2 L=120	120
39D 807/2 L=150	150
39D 807/2 L=180	180
39D 807/2 L=250	250
39D 807/2 L=300	300
39D 807/2 L=350	350

Standard VW/Audi

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



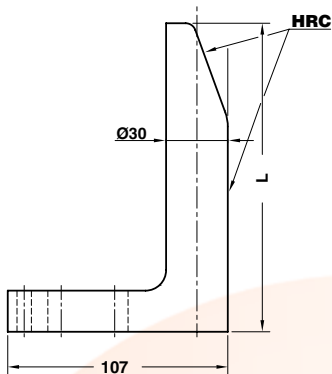
Notes
Material: CK60 - HRC: 58÷60



ORDER EXAMPLE	VW CODE	B1=122	B2=20
	39D 807/3 L=90	122	20

VW CODE	L
39D 807/3 L=65	65
39D 807/3 L=90	90
39D 807/3 L=120	120
39D 807/3 L=150	150
39D 807/3 L=180	180
39D 807/3 L=250	250
39D 807/3 L=300	300
39D 807/3 L=350	350

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - HRC: 58÷60

STOCK



VW CODE

39D 807/4 L=90

VW CODE

L

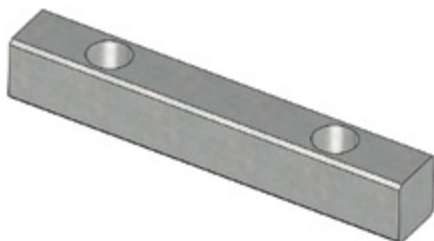
39D 807/4 L=65	65
39D 807/4 L=90	90
39D 807/4 L=120	120
39D 807/4 L=150	180
39D 807/4 L=180	150
39D 807/4 L=250	250
39D 807/4 L=300	300
39D 807/4 L=350	350

KEY - PASSFEDER - CHIAVETTA

Notes

Material: 16MnCr5 - HRC: 58÷60

STOCK



VW CODE

39D 826

VW CODE

39D 826

Standard VW/Audi

SPACER GROUP - ANSATZBUCHSE - GRUPPO DISTANZIALE

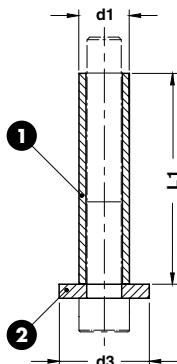
Notes

1 Material: St37

2 Material: CK45

Screws not included

STOCK

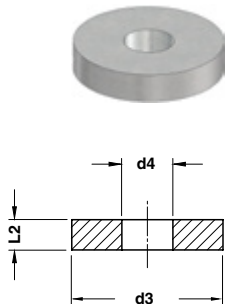


VW CODE

39D 828/5

VW CODE	d1 x L1	d3	VW CODE	d1 x L1	d3	VW CODE	d1 x L1	d3
39D 828/4	16 x 40	25	39D 828/12	20 x 100	30	39D 828/20	36 x 80	55
39D 828/5	16 x 50	25	39D 828/13	25 x 63	38	39D 828/21	36 x 100	55
39D 828/6	16 x 63	25	39D 828/14	25 x 80	38	39D 828/22	36 x 125	55
39D 828/8	16 x 100	25	39D 828/15	25 x 100	38	39D 828/23	42 x 80	65
39D 828/9	20 x 50	30	39D 828/16	25 x 125	38	39D 828/24	42 x 100	65
39D 828/10	20 x 63	30	39D 828/17	30 x 80	45	39D 828/25	42 x 125	65
39D 828/11	20 x 80	30	39D 828/19	30 x 125	45			

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45

STOCK

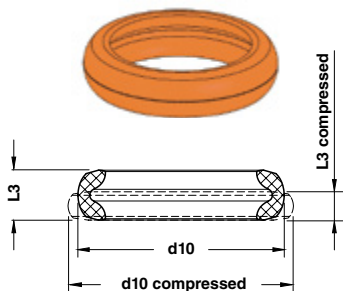


VW CODE

39D 828/42

VW CODE	d3	d4	L2
39D 828/41	25	10,5	5
39D 828/42	30	13,2	5
39D 828/43	38	17,0	6
39D 828/44	45	21,0	8
39D 828/45	55	25,0	10
39D 828/46	30	10,5	5
39D 828/47	35	13,0	5
39D 828/48	50	17,0	6
39D 828/49	65	21,0	8
39D 828/50	70	25,0	10
39D 828/57	65	32,0	15
39D 828/58	90	32,0	15

ELASTOMER WASHER - DÄMPFUNGSCHEIBE - AMMORTIZZATORE



Notes

Material: CO-Polyester Elastomer

STOCK

*Die höchste Belastung
Carico massimo ammissibile

**Komprimiert
Compresso

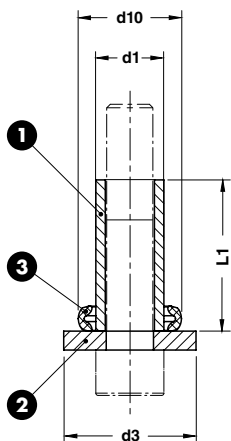


VW CODE

39D 828/52

VW CODE	d10	d10 (compressed**)	L3	L3 (compressed**)	Shore	Load* (N)
39D 828/51	26,4	28,4	7,8 ±0,3	5,5 ±0,3	55D	5500
39D 828/52	32,1	35,1	10,8 ±0,3	6,0 ±0,3	72D	9000
39D 828/53	45,8	49,8	17,0 ±0,4	11,6 ±0,3	72D	20000
39D 828/54	54,6	61,8	21,3 ±0,4	13,0 ±0,3	55D	30000
39D 828/55	61,8	69,9	21,5 ±0,4	13,2 ±0,3	55D	46000
39D 828/56	78,5	89,0	29,8 ±0,5	17,9 ±0,3	55D	75000

SPACER GROUP - ANSATZBUCHSE - GRUPPO DISTANZIALE



Notes

- 1 Material: St37
- 2 Material: CK45
- 3 Material: CO-Polyester Elastomer

Screws not included



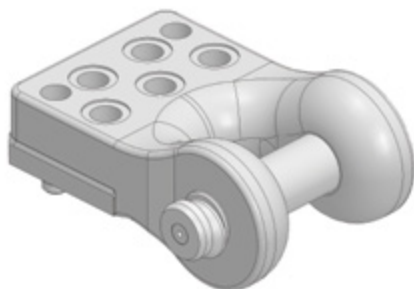
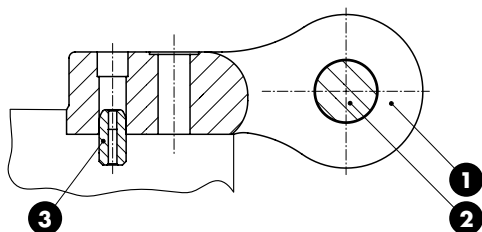
Standard VW/Audi



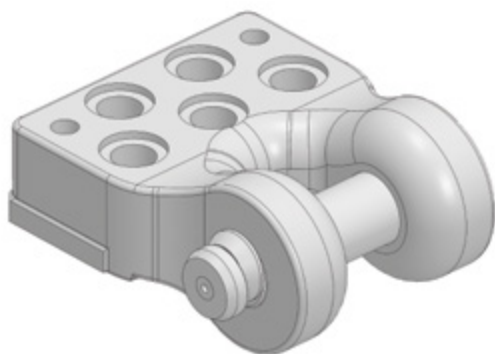
VW CODE
39D 828/74

VW CODE	d1 x L1	d3	d10	Shore	VW CODE	d1 x L1	d3	d10	Shore
39D 828/73	16 x 40	30	26,4	55D	39D 828/84	25 x 100	50	45,8	72D
39D 828/74	16 x 50	30	26,4	55D	39D 828/85	25 x 125	50	45,8	72D
39D 828/75	16 x 63	30	26,4	55D	39D 828/86	30 x 80	65	54,6	55D
39D 828/77	16 x 100	30	26,4	55D	39D 828/88	30 x 125	65	54,6	55D
39D 828/78	20 x 50	35	32,1	72D	39D 828/89	36 x 80	70	61,8	55D
39D 828/79	20 x 63	35	32,1	72D	39D 828/90	36 x 100	70	61,8	55D
39D 828/80	20 x 80	35	32,1	72D	39D 828/91	36 x 125	70	61,8	55D
39D 828/81	20 x 100	35	32,1	72D	39D 828/92	42 x 80	90	78,5	55D
39D 828/82	25 x 63	50	49,8	72D	39D 828/93	42 x 100	90	78,5	55D
39D 828/83	25 x 80	50	45,8	72D	39D 828/94	42 x 125	90	78,5	55D

LIFTING BRACKET WITH PIN AND LOCATING PINS
TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI



FORM A



FORM B



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1** Material: St52
- 2** 39D 866 - Material: CK45
- 3** 39V 1205/1
Material: 16MnCr5 - HRC: 58÷62

Screws not included

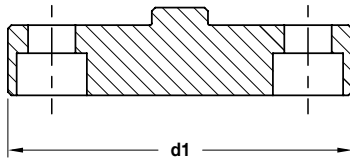


VW CODE

39D 839/2

VW CODE	Max load (kg)	Max die weight (kg)	FORM
39D 839/1	8000	16000	A
39D 839/2	12500	25000	B

BLOCK - DRUCKPLATTEN FÜR GASDRUCKFEDERN - REAZIONE PER CILINDRO



Notes

Material: 90MnCrV8 - **HRC:** 58÷60

STOCK



VW CODE

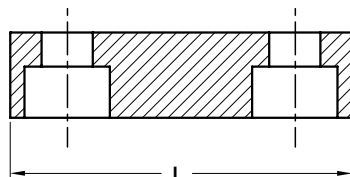
39D 847/2

VW CODE

d1

39D 847/1	98
39D 847/2	113
39D 847/3	128
39D 847/4	143

BLOCK - DRUCKPLATTEN FÜR GASDRUCKFEDERN - REAZIONE PER CILINDRO



Notes

Material: 90MnCrV8 - **HRC:** 58÷60

STOCK



VW CODE

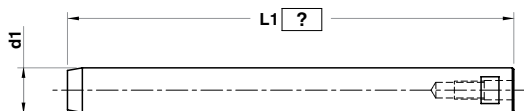
39D 847/11

VW CODE

L

39D 847/10	40
39D 847/11	60
39D 847/12	70
39D 847/13	100
39D 847/14	140

SLIDING PIN - FÜHRUNGSSÄULE - PERNO SCORREVOLE



Notes

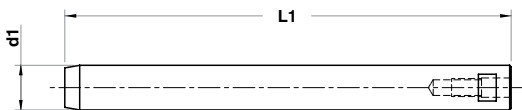
Material: CK45 - HRC: 60÷62



VW CODE	L1=300
39D 851/20	300

VW CODE	d1
39D 851/20	20
39D 851/25	25
39D 851/30	30

SLIDING PIN - FÜHRUNGSSÄULE - PERNO SCORREVOLE



Notes

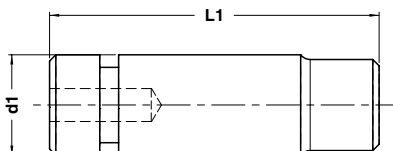
Material: CK45 - HRC: 60÷62



VW CODE
39D 851/32

VW CODE	d1	L1
39D 851/32	30	270
39D 851/34	30	425

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

Material: 42CrMo4
1000 N/mm²

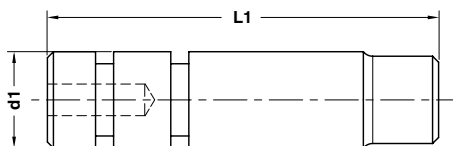
STOCK



VW CODE
39D 854/2

VW CODE	d1	L1	VW CODE	d1	L1
39D 854/1	32	105	39D 854/5	50	167
39D 854/2	32	122	39D 854/6	50	192
39D 854/3	40	139	39D 854/7	63	202
39D 854/4	40	159	39D 854/8	63	237

PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico max.

Notes

Material: 42CrMo4 - 800±1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

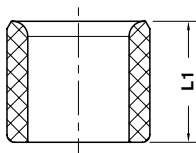
10



VW CODE
39D 854/441

VW CODE	d1	L1	VW CODE	d1	L1
39D 854/441	32	130	39D 854/445	50	207
39D 854/442	32	147	39D 854/446	50	232
39D 854/443	40	171	39D 854/447	63	252
39D 854/444	40	191	39D 854/448	63	287

BUSH - DÄMPFUNGSBUCHSE - BOCCOLA



Notes

Material: Nylatron GSM P30

Only for replacement

Nur für Reparatur

Solo per riparazione

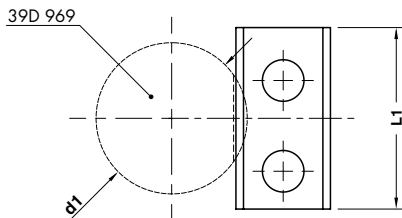
STOCK



VW CODE
39D 855/5

VW CODE	L1
39D 855/4	32
39D 855/5	40
39D 855/6	50

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

Material: Si37

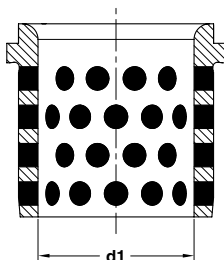
STOCK



VW CODE
39D 856/2

VW CODE	d1	L1
39D 856/2	25	40
	32	40
39D 856/4	40	48
	50	48
39D 856/6	63	60
	80	60

BUSH SELF-LUBRICATING DIN 9834
FUHRUNGSBUCHSE DIN 9834
BOCCOLA AUTOLUBRIFICANTE DIN 9834



Notes

Material: Bronze + Graphite
HB > 190

STOCK



VW CODE

39D 860/32

VW CODE

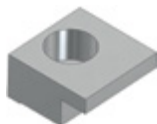
d1

39D 860/31	25
39D 860/32	32
39D 860/33	40
39D 860/34	50
39D 860/35	63
39D 860/36	80
39D 860/37	100
39D 860/38	125
39D 860/40	160

Standard VW/Audi

39D 861

TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA

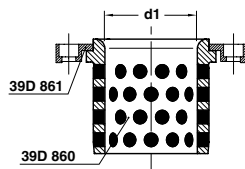


Notes

Material: CK45

STOCK

Application example



VW CODE

39D 861/6

VW CODE

d1

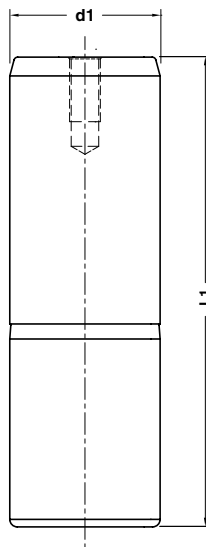
39D 861/6	25÷50
39D 861/10	63÷160

GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA GUIDA DIN 9833



Notes

Material: 16MnCr5
HRC: 60÷62

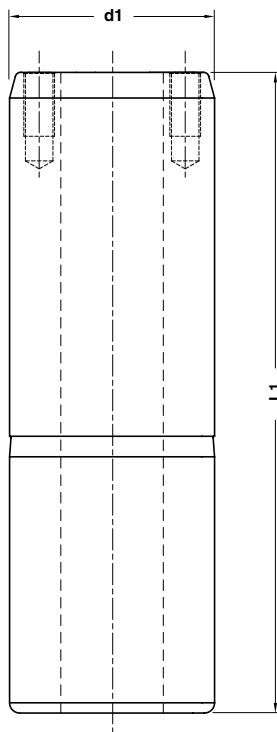


VW CODE
39D 862/47

VW CODE	d1	L1	VW CODE	d1	L1
39D 862/13	25	125	39D 862/45	50	250
39D 862/14	25	140	39D 862/46	50	280
39D 862/15	25	160	39D 862/47	50	315
39D 862/16	25	180	39D 862/48	50	355
39D 862/23	32	140	39D 862/51	63	180
39D 862/24	32	160	39D 862/52	63	200
39D 862/25	32	180	39D 862/53	63	224
39D 862/26	32	200	39D 862/54	63	250
39D 862/31	40	140	39D 862/55	63	280
39D 862/32	40	160	39D 862/56	63	315
39D 862/33	40	180	39D 862/57	63	355
39D 862/34	40	200	39D 862/58	63	400
39D 862/35	40	224	39D 862/62	80	224
39D 862/36	40	250	39D 862/63	80	250
39D 862/37	40	280	39D 862/64	80	280
39D 862/41	50	160	39D 862/65	80	315
39D 862/42	50	180	39D 862/66	80	355
39D 862/43	50	200	39D 862/67	80	400
39D 862/44	50	224			

Notes

Material: 16MnCr5
HRC: 60÷62



Standard VW/Audi

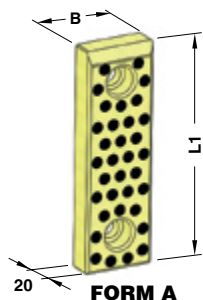


VW CODE

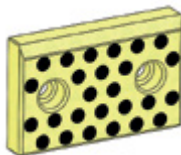
39D 862/75

VW CODE	d1	L1	VW CODE	d1	L1
39D 862/73	100	280	39D 862/85	125	450
39D 862/74	100	315	39D 862/86	125	500
39D 862/75	100	355	39D 862/93	160	400
39D 862/76	100	400	39D 862/94	160	450
39D 862/82	125	315	39D 862/95	160	500
39D 862/83	125	355	39D 862/96	160	560
39D 862/84	125	400			

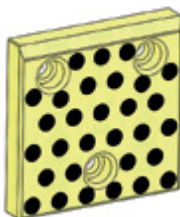
WEAR PLATE SELF-LUBRICATING VDI 3357 GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357 PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357



FORM A



FORM B



FORM C



FORM D

Notes

Material: Bronze + Graphite
HB > 190



VW CODE
39D 863/12

VW CODE	B	L1	FORM	VW CODE	B	L1	FORM	VW CODE	B	L1	FORM
39D 863/12	50	80	A	39D 863/44	125	125	C	39D 863/126	80	500	D
39D 863/13	50	100	A	39D 863/45	125	160	C	39D 863/131	100	450	D
39D 863/14	50	125	A	39D 863/46	125	200	C	39D 863/132	100	500	D
39D 863/15	50	160	A	39D 863/51	160	50	B	39D 863/141	125	450	D
39D 863/16	50	200	A	39D 863/52	160	80	B	39D 863/142	125	500	D
39D 863/21	80	50	B	39D 863/53	160	100	C	39D 863/150	100	250	D
39D 863/22	80	80	A	39D 863/54	160	125	C	39D 863/151	100	300	D
39D 863/23	80	100	A	39D 863/55	160	160	C	39D 863/152	100	350	D
39D 863/24	80	125	A	39D 863/56	160	200	C	39D 863/153	100	400	D
39D 863/25	80	160	A	39D 863/111	50	250	D	39D 863/155	125	250	D
39D 863/26	80	200	A	39D 863/112	50	300	D	39D 863/156	125	300	D
39D 863/31	100	50	B	39D 863/113	50	350	D	39D 863/157	125	350	D
39D 863/32	100	80	B	39D 863/114	50	400	D	39D 863/158	125	400	D
39D 863/33	100	100	A	39D 863/115	50	450	D	39D 863/160	160	250	D
39D 863/34	100	125	A	39D 863/116	50	500	D	39D 863/161	160	300	D
39D 863/35	100	160	A	39D 863/121	80	250	D	39D 863/162	160	350	D
39D 863/36	100	200	A	39D 863/122	80	300	D	39D 863/163	160	400	D
39D 863/41	125	50	B	39D 863/123	80	350	D	39D 863/164	160	450	D
39D 863/42	125	80	B	39D 863/124	80	400	D	39D 863/165	160	500	D
39D 863/43	125	100	C	39D 863/125	80	450	D				

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357

Notes

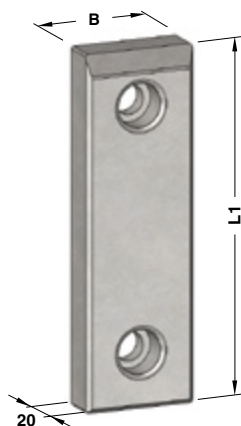
Material: 16MnCr5

HRC: 58÷60

STOCK



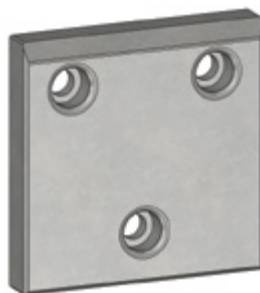
Standard VW/Audi



FORM A



FORM B



FORM C



VW CODE

39D 863/62

VW CODE	B	L1	FORM	VW CODE	B	L1	FORM	VW CODE	B	L1	FORM
39D 863/62	50	80	A	39D 863/76	80	200	A	39D 863/94	125	125	C
39D 863/63	50	100	A	39D 863/81	100	50	B	39D 863/95	125	160	C
39D 863/64	50	125	A	39D 863/82	100	80	B	39D 863/96	125	200	C
39D 863/65	50	160	A	39D 863/83	100	100	A	39D 863/101	160	50	B
39D 863/66	50	200	A	39D 863/84	100	125	A	39D 863/102	160	80	B
39D 863/71	80	50	B	39D 863/85	100	160	A	39D 863/103	160	100	C
39D 863/72	80	80	A	39D 863/86	100	200	A	39D 863/104	160	125	C
39D 863/73	80	100	A	39D 863/91	125	50	B	39D 863/105	160	160	C
39D 863/74	80	125	A	39D 863/92	125	80	B	39D 863/106	160	200	C
39D 863/75	80	160	A	39D 863/93	125	100	C				

LIFTING PIN - TRAGBOLZEN MIT FALLRINGS SICHERUNG - PERNO DI SOLLEVAMENTO



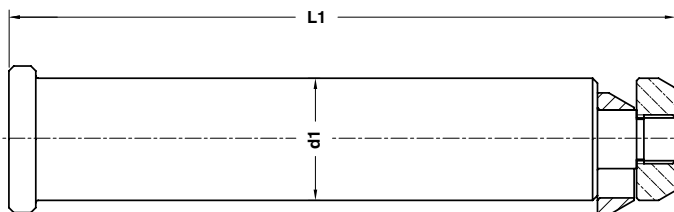
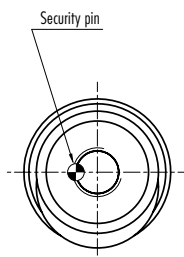
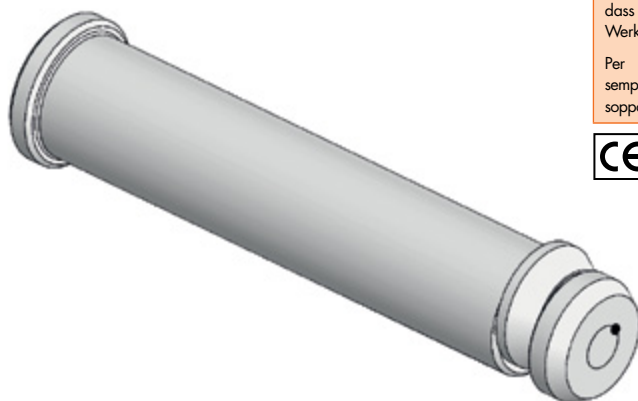
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.



ORDER EXAMPLE	VW CODE
	39D 866/4

VW CODE	Max load (kg)	Max die weight (kg)	L1	d1	Material
39D 866/3	3200	6400	175	32	CK45
39D 866/4	5000	10000	225	40	CK45
39D 866/5	8000	16000	273	50	CK45
39D 866/6	12500	25000	347	63	CK45
39D 866/7	31500	63000	422	76	42CrMo4
39D 866/25	8000	16000	221	50	CK45
39D 866/26	12500	25000	277	63	CK45

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



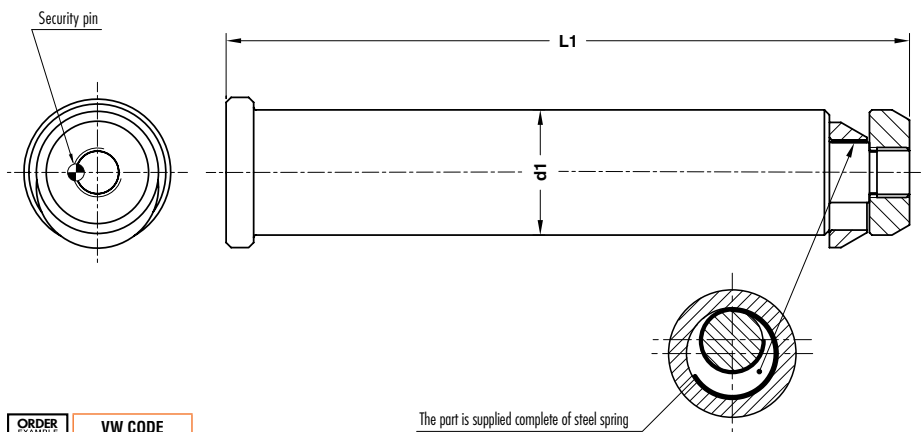
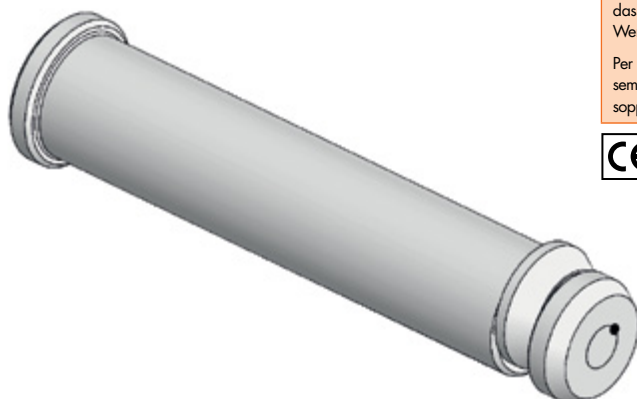
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.



VW CODE

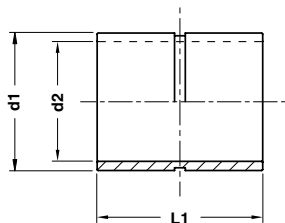
39D 866/14

VW CODE	Max load (kg)	Max die weight (kg)	d1	L1	Material
39D 866/13	3200	6400	32	175	CK45
39D 866/14	5000	10000	40	225	CK45
39D 866/15	8000	16000	50	273	CK45
39D 866/16	12500	25000	63	347	CK45
39D 866/17	31500	63000	76	422	42CrMo4

BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO



FORM A



FORM B

Notes

Material: Si37

STOCK

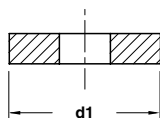


VW CODE

39D 867/11

VW CODE	d1	d2	FORM
39D 867/10	44	34	A
39D 867/11	52	42	A
39D 867/12	62	52	A
39D 867/13	75	65	A
39D 867/14	100	78	B
39D 867/15	105	78	B

WASHER - SCHEIBE - RONDELLA



Notes

Material: CK45

STOCK



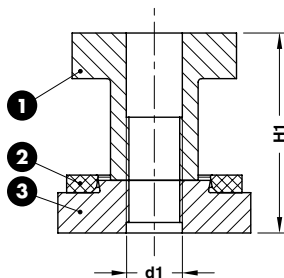
VW CODE
39D 869/10

VW CODE	d1
39D 869/3	35
39D 869/4	40
39D 869/5	50
39D 869/6	65
39D 869/8	80
39D 869/10	100
39D 869/13	130

AIR CYLINDER FIXING - VERSCHRAUBUNG - FISSAGGIO CILINDRO



FORM A



Notes

- 1 **Material:** CK45
- 2 **Material:** Elastomer 90 SH
- 3 **Material:** CK45

STOCK



VW CODE
39D 870/20

VW CODE	d1	H1	FORM
39D 870/16	M16x1,5	57	A
39D 870/20	M20x1,5	63	A
39D 870/27	M27x2,0	65	B



FORM B

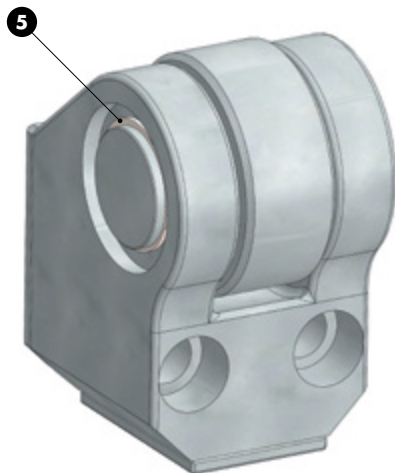
CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO

Notes

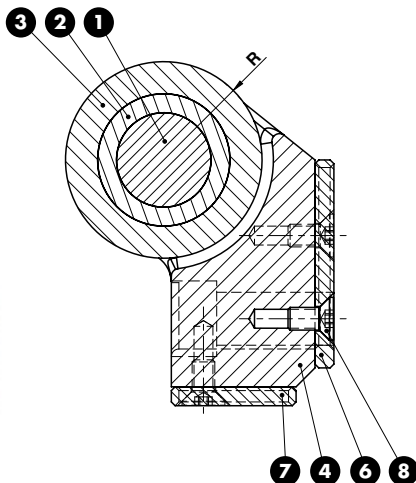
- 1 **Material:** 16MnCr5
HRC: 60÷62
- 2 **Material:** Bronze + Graphite
HB>190
- 3 **Material:** X210Cr12
HRC: 60÷62
- 4 **Material:** 42CrMo4
- 5 E25 DIN 471
- 6 **7 Material:** Si37
- 8 DIN EN ISO M6x12 (x5)



39D 872/20



39D 872/21

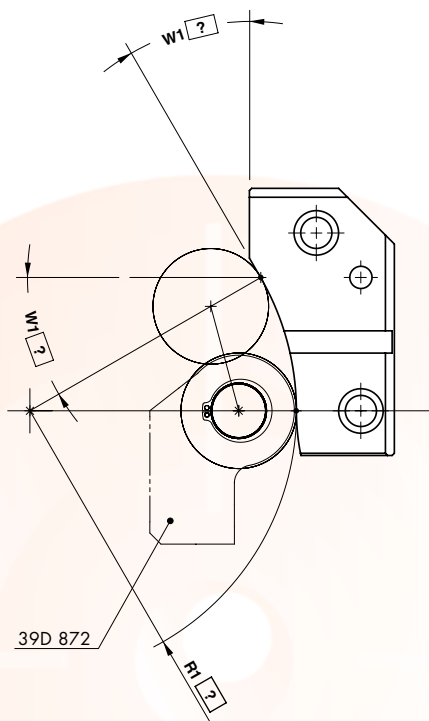


	VW CODE
	39D 872/21
VW CODE	
39D 872/20	
39D 872/21	

ACCELERATION CAM - SCHIEBERVORBESCHLEUNIGUNG - CAMMA DI ACCELERAZIONE

Notes

Materials: 90MnCrV8 - HRC: 60±62



Standard VW/Audi

ORDER EXAMPLE	VW CODE	W1?	R1?
	39D 873/10	W1=30°	R1=120

VW CODE	SIDE
39D 873/10	RIGHT
39D 873/11	LEFT

LIFTING BRACKET VDI 3366 - TRAGZAPFEN VDI 3366 - STAFFA DI SOLLEVAMENTO VDI 3366



FORM A



FORM B

Notes

Material: CK45 - 700÷800 N/mm²

Screws not included



Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
 For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.



VW CODE
39D 876/11

VW CODE	Max load (kg)	Max die weight (kg)	FORM	VW CODE	Max load (kg)	Max die weight (kg)	FORM
39D 876/10	320	640	A	39D 876/15	5000	10000	A
39D 876/11	630	1260	A	39D 876/16	8000	16000	B
39D 876/12	1250	2500	A	39D 876/17	12500	25000	B
39D 876/13	2000	4000	A	39D 876/18	20000	40000	B
39D 876/14	3200	6400	A				

AIR CYLINDER FIXING - ZIEHTEILHEBER - FISSAGGIO CILINDRO



39D882/2



39D882/3

STOCK

Notes	
Material:	
39D882/2 - 34Cr4	
39D882/3 - CK45	



VW CODE
39D 882/2

VW CODE
39D 882/2
39D 882/3

Standard VW/Audi

AIR CYLINDER ADAPTER - TEILHEBER - ADATTATORE PER CILINDRO



Notes	
Material: CK45	

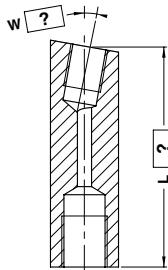
STOCK



VW CODE
39D 887/1

VW CODE
39D 887/1

AIR CYLINDER ADAPTER - TEILHEBER - ADATTATORE PER CILINDRO



⚠
L max = 100

Notes	
Material: CK45	



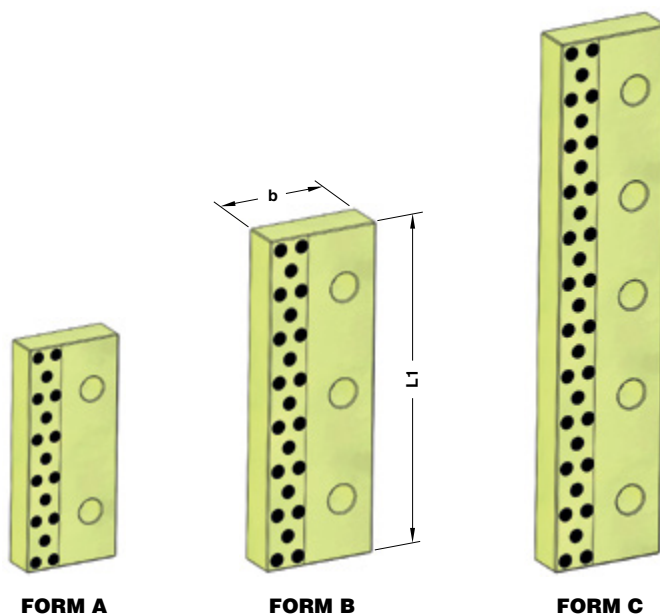
VW CODE	L=75	W=5°
39D 887/2	75	5°

VW CODE
39D 887/2

**WEAR PLATE SELF-LUBRICATING
DECKLEISTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**

Notes

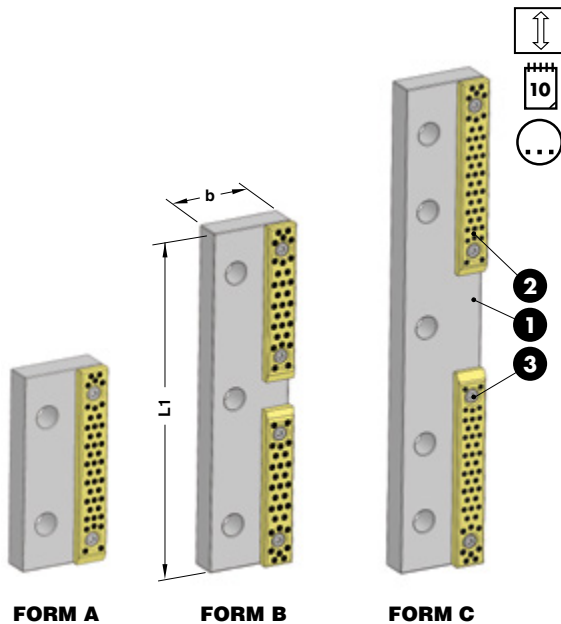
Material: Bronze + Graphite
HB > 190



	VW CODE
	39D 890/26

VW CODE	b	L1	FORM	VW CODE	b	L1	FORM
39D 890/25	85	160	A	39D 890/16	125	200	A
39D 890/26	85	200	A	39D 890/17	125	250	B
39D 890/27	85	250	B	39D 890/18	125	300	B
39D 890/28	85	300	B	39D 890/19	125	350	B
39D 890/29	85	350	B	39D 890/20	125	400	C
39D 890/30	85	400	C	39D 890/21	125	450	C
39D 890/15	125	160	A	39D 890/22	125	500	C

WEAR PLATE - DECKLEISTE SCHIEBERFÜHRUNG - PIASTRA GUIDA



Notes

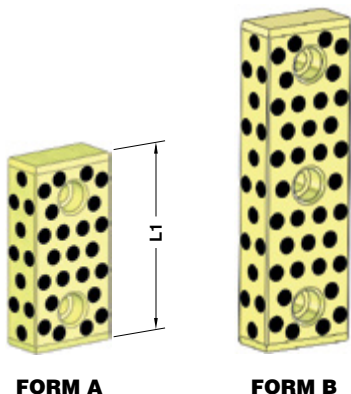
- 1 Material: CK45
- 2 39D 954
- 3 DIN 912 M8x16

ORDER EXAMPLE	VW CODE
	39D 890/51

VW CODE	b	L1	FORM
39D 890/50	85	160	A
39D 890/51	85	200	A
39D 890/52	85	250	B
39D 890/53	85	300	B
39D 890/54	85	350	B
39D 890/55	85	400	C
39D 890/56	85	450	C
39D 890/57	85	500	C
39D 890/60	125	160	A
39D 890/61	125	200	A
39D 890/62	125	250	B
39D 890/63	125	300	B
39D 890/64	125	350	B
39D 890/65	125	400	C
39D 890/66	125	450	C
39D 890/67	125	500	C

Standard VW/Audi

GUIDE BAR SELF-LUBRICATING VDI 3357
 FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
 LARDONE AUTOLUBRIFICANTE VDI 3357



Notes

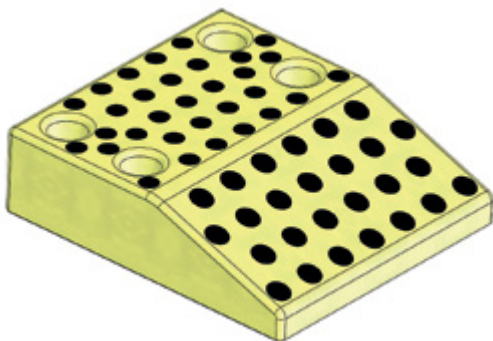
Material: Bronze + Graphite
HB > 190

STOCK

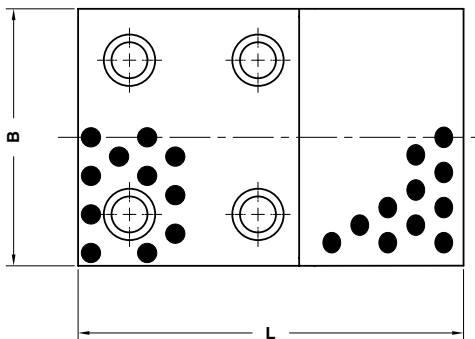
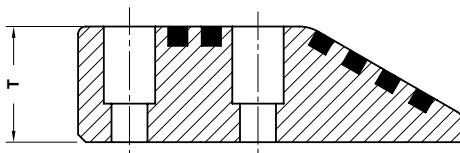
ORDER EXAMPLE	VW CODE
	39D 892/12

VW CODE	L1	FORM
39D 892/10	125	A
39D 892/11	160	A
39D 892/12	200	B
39D 892/15	125	A
39D 892/16	160	A
39D 892/17	200	B

CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
CUNEO AUTOLUBRIFICANTE VDI 3357



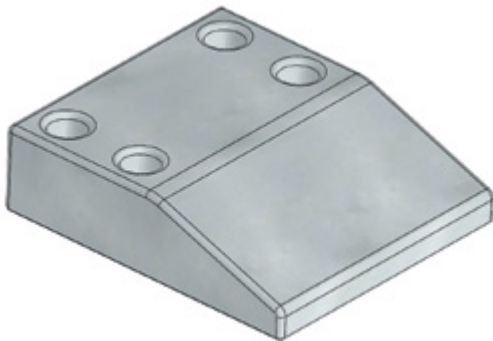
Notes
Material: Bronze + Graphite
HB > 190



	VW CODE
	39D 894/131

VW CODE	B	L	T	VW CODE	B	L	T
39D 894/130	100	170	45	39D 894/136	125	150	45
39D 894/131	125	170	45	39D 894/137	125	170	60
39D 894/132	150	170	45	39D 894/138	150	150	45
39D 894/134	100	150	45	39D 894/139	150	170	60
39D 894/135	100	170	60				

CAM DWELL WEAR PLATE STEEL VDI 3357
ÜBERLAUFKEILE STAHL VDI 3357
CUNEO IN ACCIAIO VDI 3357



Notes

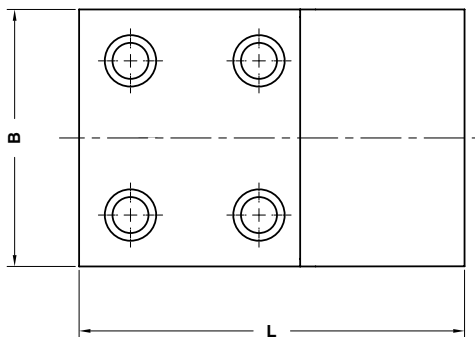
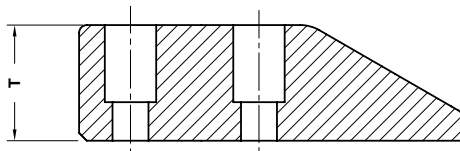
Material: X155CrVMo121KU

HRC: 58÷62

STOCK



Standard VW/Audi

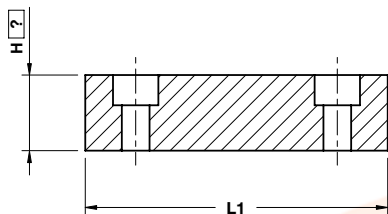


VW CODE

39D 894/151


VW CODE	B	L	T	VW CODE	B	L	T
39D 894/150	100	170	45	39D 894/156	125	150	45
39D 894/151	125	170	45	39D 894/157	125	170	60
39D 894/152	150	170	45	39D 894/158	150	150	45
39D 894/154	100	150	45	39D 894/159	150	170	60
39D 894/155	100	170	60				

KEY - PASSFEDER - CHIAVETTA

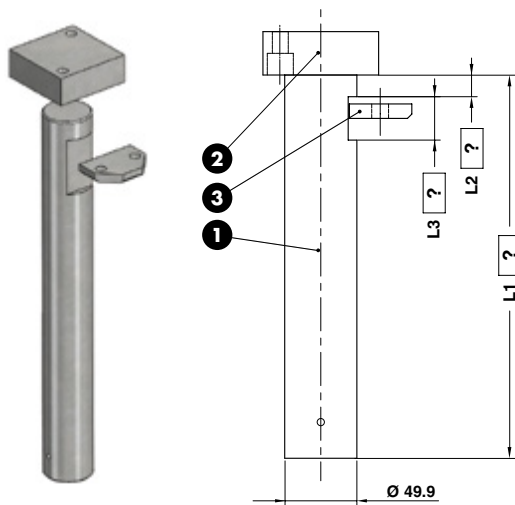


Notes
Material: S235JRG2K

STOCK

	VW CODE	H=35
	39D 895/2	35
VW CODE		L1
39D 895/1	80	
39D 895/2	120	
39D 895/3	200	

**COMPENSATION PIN GROUP
AUSGLEICHSDRUCKBOLZEN
GRUPPO PERNO DI COMPENSAZIONE**



Notes

① ② ③

Material: 16MnCr5 - HRC: 60÷64



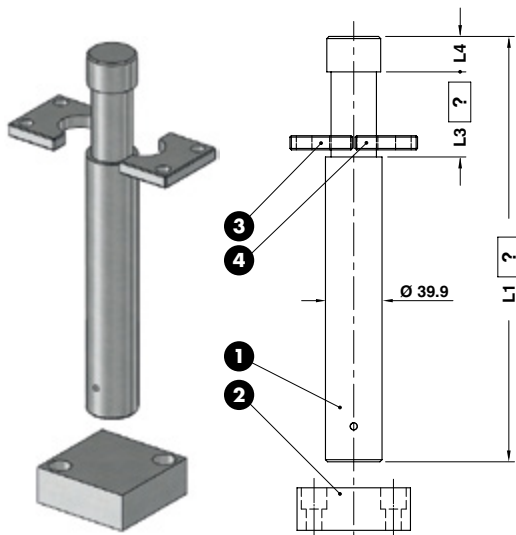
VW CODE	L1=400	L2=20	L3=60
39D 896/1	400	20	60

VW CODE

39D 896/1

Standard VW/Audi

**COMPENSATION PIN GROUP
AUSGLEICHSDRUCKBOLZEN
GRUPPO PERNO DI COMPENSAZIONE**



Notes

① ② ③ ④

Material: 16MnCr5 - HRC: 60÷64

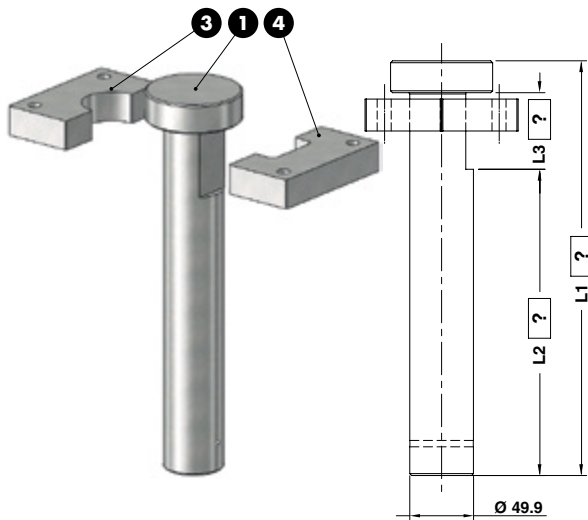


VW CODE	L1=300	L3=60	L4=45
39D 896/2	300	60	45

VW CODE

39D 896/2

**COMPENSATION PIN GROUP
AUSGLEICHSDRUCKBOLZEN
GRUPPO PERNO DI COMPENSAZIONE**



Notes

1 3 4

Material: 16MnCr5 - HRC: 60÷64

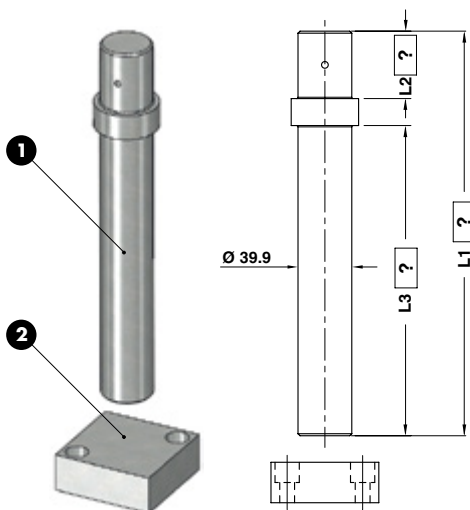


VW CODE	L1=325	L2=240	L3=60
39D 896/3	325	240	60

VW CODE

39D 896/3

**COMPENSATION PIN GROUP
AUSGLEICHSDRUCKBOLZEN
GRUPPO PERNO DI COMPENSAZIONE**



Notes

1 2

Material: 16MnCr5 - HRC: 60÷64



VW CODE	L1=300	L2=50	L3=230
39D 896/4	300	50	230

VW CODE

39D 896/4

BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



Notes

Material: 16MnCr5 - HRC: 60÷64

STOCK



VW CODE

39D 896/1-02

VW CODE

39D 896/1-02

Standard VW/Audi

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

Material: 16MnCr5 - HRC: 60÷64

STOCK



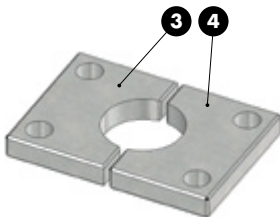
VW CODE

39D 896/1-03

VW CODE

39D 896/1-03

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

3 4

Material: 16MnCr5 - HRC: 60÷64

STOCK



VW CODE

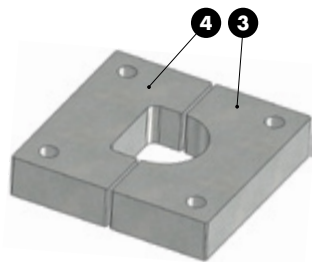
39D 896/2-04

VW CODE

39D 896/2-03

39D 896/2-04

RETAINER - SICHERUNGSPLATTE - PIASTRINA



Notes

3 4

Material: 16MnCr5 - HRC: 60÷64

STOCK



VW CODE

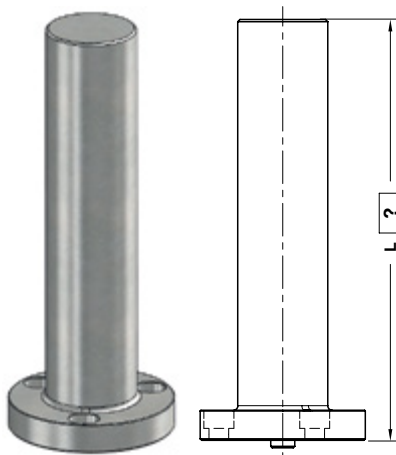
39D 896/3-04

VW CODE

39D 896/3-03

39D 896/3-04

AIR PIN - UNTERLUFTBOLZEN - CANDELA



39D 951/1



39D 951/2



L max = 440

Notes

Material: CK45 - 800÷1000 N/mm²



VW CODE

39D 951/1

L=200

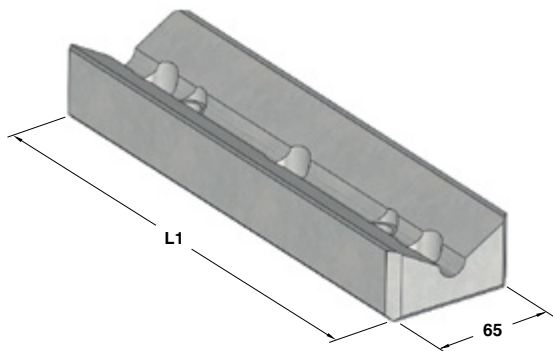
200

VW CODE

39D 951/1

39D 951/2

"V" DRIVER STEEL VDI 3357
PRISMENFÜHRUNG STAHL VDI 3357
GUIDA A "V" IN ACCIAIO VDI 3357



Notes
Material: CK45 - **HRC:** 58÷60

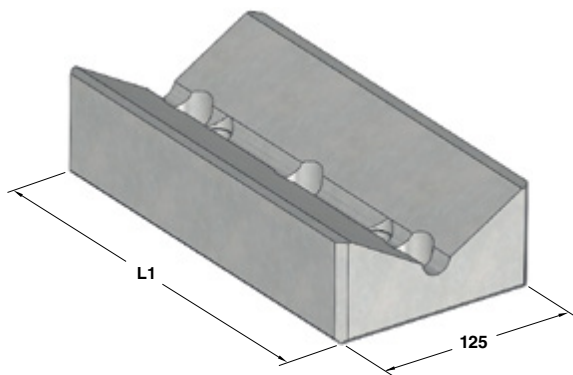


ORDER EXAMPLE	VW CODE
	39D 952/12

VW CODE	L1
39D 952/10	150
39D 952/11	200
39D 952/12	250
39D 952/13	300

Standard VW/Audi

"V" DRIVER STEEL VDI 3357
PRISMENFÜHRUNG STAHL VDI 3357
GUIDA A "V" IN ACCIAIO VDI 3357



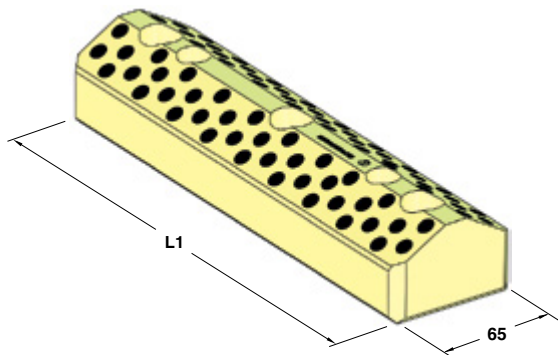
Notes
Material: CK45 - **HRC:** 58÷60



ORDER EXAMPLE	VW CODE
	39D 952/23

VW CODE	L1
39D 952/20	150
39D 952/21	200
39D 952/22	250
39D 952/23	300

"V" DRIVER SELF-LUBRICATING VDI 3357
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



Notes

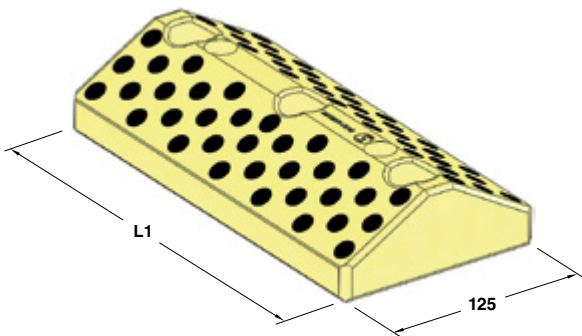
Material: Bronze + Graphite
HB >190



VW CODE
39D 952/43

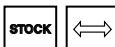
VW CODE	L1
39D 952/40	150
39D 952/41	200
39D 952/42	250
39D 952/43	300

"V" DRIVER SELF-LUBRICATING VDI 3357
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



Notes

Material: Bronze + Graphite
HB >190



VW CODE
39D 952/52

VW CODE	L1
39D 952/50	150
39D 952/51	200
39D 952/52	250
39D 952/53	300

WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

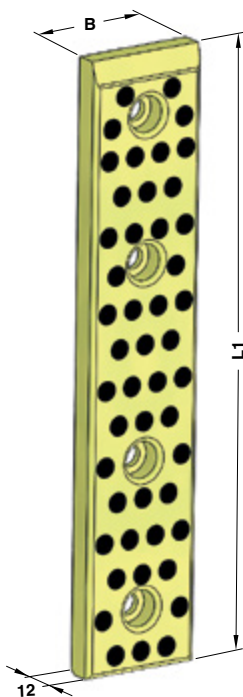
Notes

Material: Bronze + Graphite
HB > 190

STOCK



FORM A



FORM B



VW CODE

39D 954/12

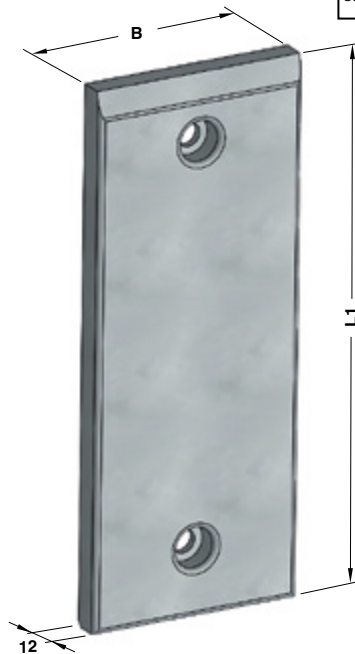
VW CODE	B	L1	FORM	VW CODE	B	L1	FORM	VW CODE	B	L1	FORM
39D 954/11	30	80	A	39D 954/21	50	80	A	39D 954/31	80	80	A
39D 954/12	30	100	A	39D 954/22	50	100	A	39D 954/32	80	100	A
39D 954/13	30	125	A	39D 954/23	50	125	A	39D 954/33	80	125	A
39D 954/14	30	160	A	39D 954/24	50	160	A	39D 954/34	80	160	A
39D 954/15	30	200	A	39D 954/25	50	200	A	39D 954/35	80	200	A
39D 954/16	40	80	A	39D 954/26	60	80	A	39D 954/36	50	250	B
39D 954/17	40	100	A	39D 954/27	60	100	A	39D 954/37	50	300	B
39D 954/18	40	125	A	39D 954/28	60	125	A	39D 954/38	50	350	B
39D 954/19	40	160	A	39D 954/29	60	160	A	39D 954/39	50	400	B
39D 954/20	40	200	A	39D 954/30	60	200	A				

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357

Notes

Material: 16MnCr5 - **HRC:** 58÷60

STOCK

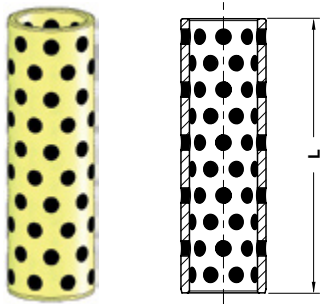


VW CODE

39D 954/42

VW CODE	B	L1	VW CODE	B	L1
39D 954/41	30	80	39D 954/54	50	160
39D 954/42	30	100	39D 954/55	50	200
39D 954/43	30	125	39D 954/56	60	80
39D 954/44	30	160	39D 954/57	60	100
39D 954/45	30	200	39D 954/58	60	125
39D 954/46	40	80	39D 954/59	60	160
39D 954/47	40	100	39D 954/60	60	200
39D 954/48	40	125	39D 954/61	80	80
39D 954/49	40	160	39D 954/62	80	100
39D 954/50	40	200	39D 954/63	80	125
39D 954/51	50	80	39D 954/64	80	160
39D 954/52	50	100	39D 954/65	80	200
39D 954/53	50	125			

GUIDE BUSH - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

STOCK



VW CODE

39D 956/1

VW CODE

L

39D 956/1

115

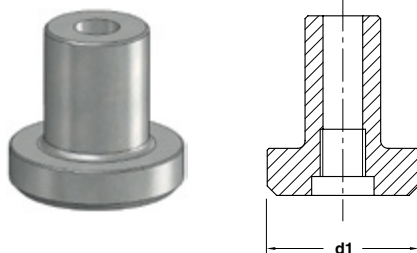
39D 956/2

145

39D 956/3

170

STOP PIN - HALTEBOLZEN - PERNO DI ARRESTO



Notes

Material: 42CrMo4
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

STOCK



VW CODE

39D 958/2

VW CODE

d1

39D 958/1

100

39D 958/2

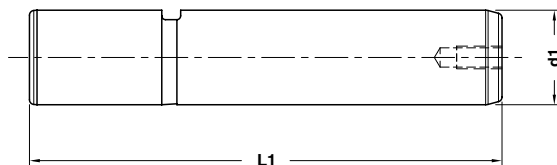
80

GUIDE POST DIN 9833 TYPE
FÜHRUNGSSÄULE DIN 9833 TYP
COLONNA GUIDA TIPO DIN 9833

Notes

Material: 16MnCr5

HRC: 60÷62

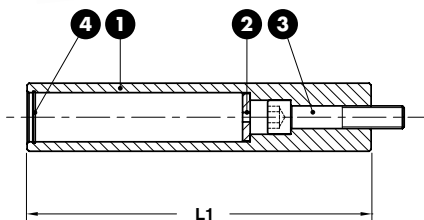


VW CODE

39D 969/47

VW CODE	d1	L1	VW CODE	d1	L1
39D 969/13	25	125	39D 969/45	50	250
39D 969/14	25	140	39D 969/46	50	280
39D 969/15	25	160	39D 969/47	50	315
39D 969/16	25	180	39D 969/48	50	355
39D 969/23	32	140	39D 969/53	63	224
39D 969/24	32	160	39D 969/54	63	250
39D 969/25	32	180	39D 969/55	63	280
39D 969/26	32	200	39D 969/56	63	315
39D 969/32	40	160	39D 969/57	63	355
39D 969/33	40	180	39D 969/58	63	400
39D 969/34	40	200	39D 969/64	80	250
39D 969/35	40	224	39D 969/65	80	280
39D 969/36	40	250	39D 969/66	80	315
39D 969/37	40	280	39D 969/67	80	355
39D 969/43	50	200	39D 969/68	80	400
39D 969/44	50	224			

LIFTER - FEDERBOLZEN - SOLLEVATORE



Notes

- 1 **Material:** CK45 - **HRC:** 60÷62
- 2 **Material:** 90MnCrV8
HRC: 54÷60
- 3 M10x60 DIN 912
- 4 Seeger ring DIN 472

STOCK



VW CODE
39D 972/11

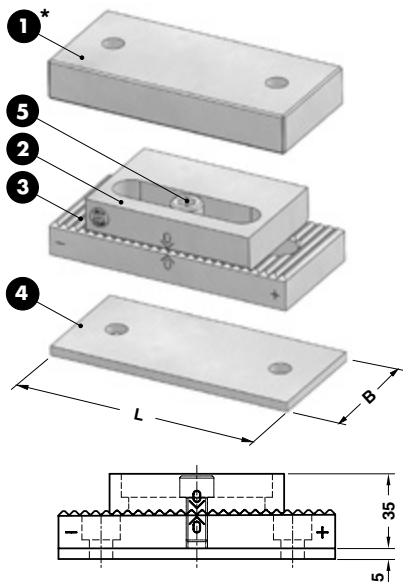
VW CODE

L1

39D 972/11	182
39D 972/12	200
39D 972/13	220

Standard VW/Audi

SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE



Notes

- 1 2 3 **Material:** 90MnCrV8 - **HRC:** 58÷60
- 4 **Material:** X155CrVMo12
- 5 DIN 912

STOCK



* Pressure plate
Druckplatte
Piastra di reazione



VW CODE
39D 976/11

VW CODE

L

B

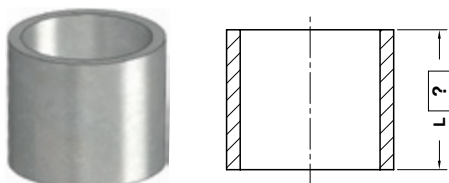
39D 976/10	130	60
39D 976/11	160	80
39D 976/20*	130	60
39D 976/21*	160	80

PLATE FOR SENSOR - HALTERUNG - PIASTRINA PORTASENSORE



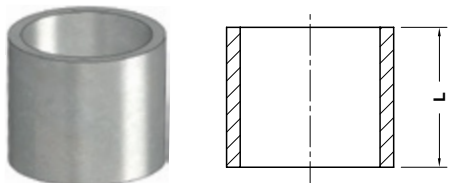
Notes	
Material: Si37	
STOCK	
ORDER EXAMPLE 	VW CODE
	39D 993/1
VW CODE	d1
39D 993/1	19
39D 993/2	31

SPACER - DISTANZSTÜCK - DISTANZIALE



Notes		
Material: CK45		
10		
ORDER EXAMPLE 	VW CODE	L=37
	39D 995/4	37
VW CODE		
39D 995/4		

SPACER - DISTANZSTÜCK - DISTANZIALE



Notes		
Material: CK45		
10		
ORDER EXAMPLE 	VW CODE	L=37
	39D 995/4	37

VW CODE	L	VW CODE	L	VW CODE	L	VW CODE	L	VW CODE	L
39D 995L17	17	39D 995L28	28	39D 995L37	37	39D 995L47	47	39D 995L57	57
39D 995L24	24	39D 995L29	29	39D 995L38	38	39D 995L48	48	39D 995L57,5	57,5
39D 995L25	25	39D 995L32	32	39D 995L41	41	39D 995L49	49	39D 995L77	77
39D 995L27	27	39D 995L33	33	39D 995L42	42	39D 995L51	51		

WASHER/STOP BLOCK - SCHEIBE/HALTEPLATTE - RONDELLA/TASSELLO



39D 995/5



39D 995/6

Notes

Material:

39D 995/5 - CK45

39D 995/6 - 16MnCr5 - HRC: 60±62

STOCK



VW CODE

39D 995/6

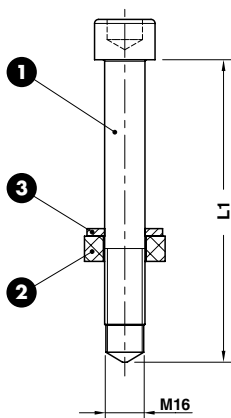
VW CODE

39D 995/5

39D 995/6

Standard VW/Audi

RETAINER PIN - ZIEHTEILHEBER - PERNO CON RONDELLA



Notes

1 DIN 912

2 Material: Nylatron GSM P30

3 Material: STEEL

STOCK



VW CODE

39D 995/14

VW CODE

L1

39D 995/12

120

39D 995/14

135

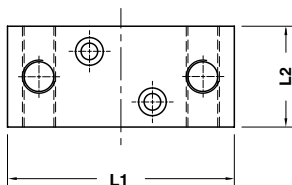
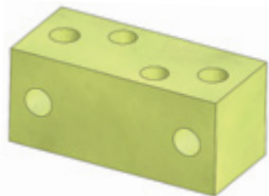
39D 995/15

150

39D 995/16

160

DISTRIBUTOR - VERTEILERBLOCKE - DISTRIBUTORE



Notes

Material: Ms65

STOCK

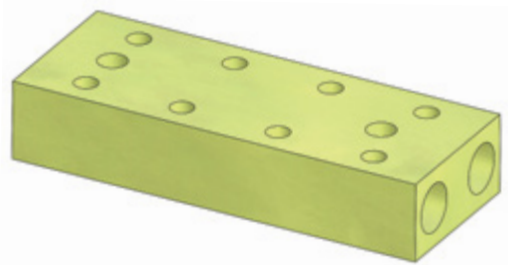


VW CODE

39D 1392/1

VW CODE	L1	L2
39D 1392/1	90	40
39D 1392/2	100	45
39D 1392/3	110	50
39D 1392/4	120	60

DISTRIBUTOR - VERTEILERBLOCKE - DISTRIBUTORE



Notes

Material: Ms65

STOCK

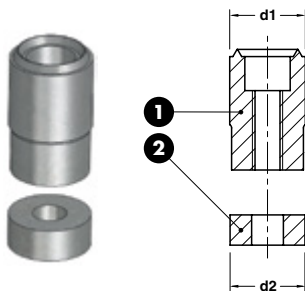


VW CODE

39D 1430

VW CODE
39D 1430

**VISUAL LOCATOR SETTING PUNCH
STEMPEL F. ENTGASUNGSNOPPEN
PUNZONE DI VISUALIZZAZIONE**



Notes

- 1 **Material:** X205Cr12KU
HRC: 60÷62
- 2 **Material:** X205Cr12KU

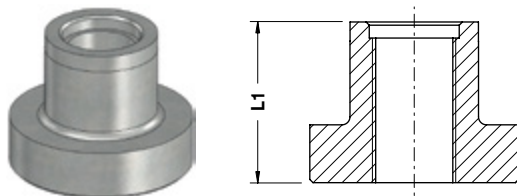


ORDER EXAMPLE	VW CODE
	39V 863/10

VW CODE	d1	d2
39V 863/10	10	9,7
39V 863/13	13	12

Standard VW/Audi

THREADED BUSH - GENWINDEBUCHSE - BOCCOLA FILETTATA



Notes

Material: CK45



ORDER EXAMPLE	VW CODE
	39V 1071

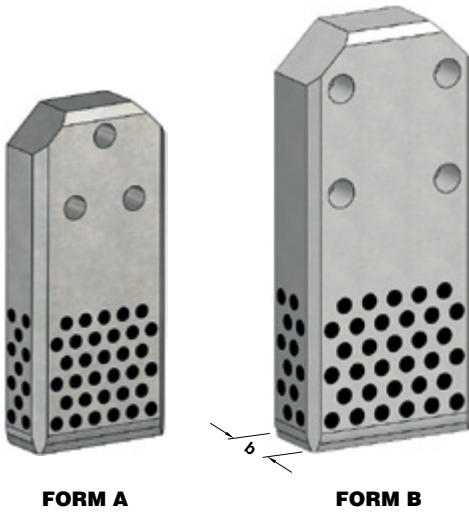
VW CODE	L1
39V 1071/1	50
39V 1071/2	87

GIB VDI 3387 - FÜHRUNGSLASCHE VDI 3387 - GUIDA VDI 3387

Notes

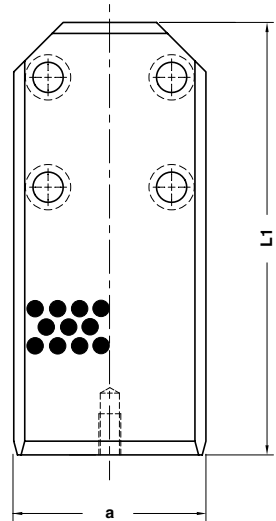
Material: CK45 + Graphite
HRC: 58÷60

STOCK



FORM A

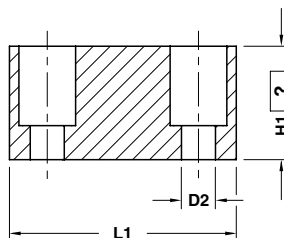
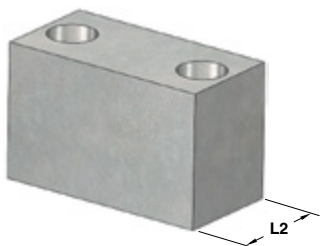
FORM B



VW CODE
 39V 1159/25

VW CODE	a	b	L1	FORM
39V 1159/24	112	45	250	A
39V 1159/25	140	45	315	B
39V 1159/32	190	56	400	B
39V 1159/35	240	56	500	B
39V 1159/36	240	56	630	B
39V 1159/37	140	45	400	B
39V 1159/38	140	56	400	B

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione

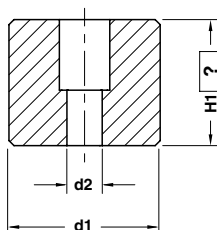


ORDER EXAMPLE	VW CODE	H1=60
	39V 1162/3	60

VW CODE	D2	L1	L2
39V 1162/1	9	60	40
39V 1162/2	11	80	40
39V 1162/3	14	100	40
39V 1162/4	14	100	50
39V 1162/5	14	120	60
39V 1162/6	14	150	80
39V 1162/7	14	160	100
39V 1162/20	18	150	80
39V 1162/21	18	160	100

Standard VW/Audi

STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



Notes

Material: CK45
 Only for replacement
 Nur für Reparatur
 Solo per riparazione



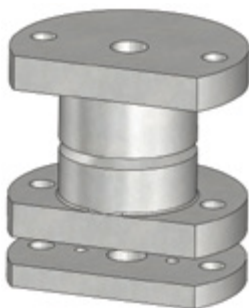
ORDER EXAMPLE	VW CODE	H1=60
	39V 1162/15	60

VW CODE	d1	d2
39V 1162/14	60	14
39V 1162/26	80	18
39V 1162/15	80	14
39V 1162/17	120	18
39V 1162/18	150	22
39V 1162/25	100	22

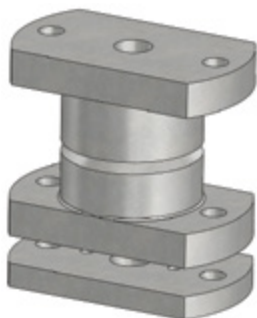
LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A



FORM B

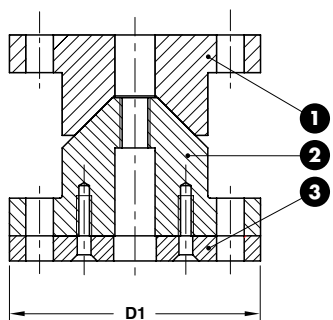


FORM C

Notes

① ② **Material:** 16MnCr5
HRC: 58÷60

③ **Material:** CK45



ORDER EXAMPLE	VW CODE	
	39V 1168/16	
VW CODE	FORM	D1
39V 1168/10	A	100
39V 1168/12	A	120
39V 1168/14	B	100
39V 1168/16	B	120
39V 1168/18	C	100
39V 1168/20	C	120

Notes

Material: Elastomer 70 SH

STOCK



Standard VW/Audi



VW CODE
39V 1178/17

VW CODE
39V 1178/17

LIFTING PIN VDI 3366 - TRAGSCHRAUBE VDI 3366 - PERNO DI SOLLEVAMENTO VDI 3366



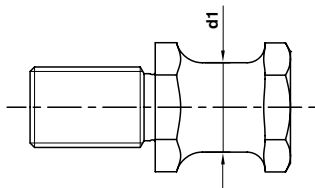
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.



VW CODE
39V 1199/3

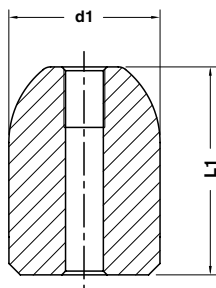
Notes

Material: CK45 - 700÷800 N/mm²

VW CODE	Max load (kg)	Max die weight (kg)	d1	VW CODE	Max load (kg)	Max die weight (kg)	d1
39V 1199/1	320	640	16	39V 1199/4	1500	3000	32
39V 1199/2	500	1000	20	39V 1199/5	2500	5000	40
39V 1199/3	1000	2000	25				

39V 1205

LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



Notes

Material: 16MnCr5 - HRC: 58÷62



VW CODE
39V 1205/3

VW CODE	d1	L1
39V 1205/1	22	45
39V 1205/2	22	55
39V 1205/3	40	55
39V 1205/4	40	65
39V 1205/5	40	85

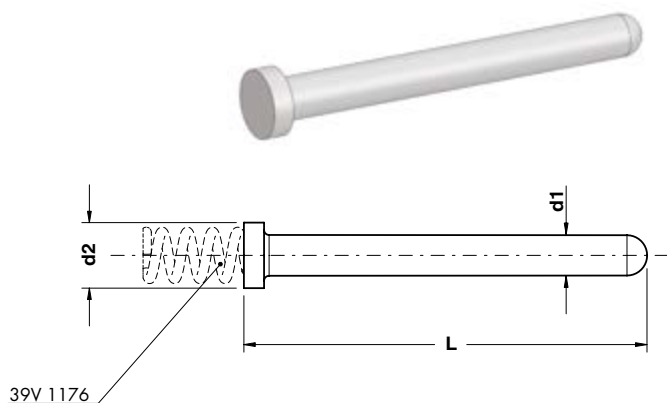
EJECTOR - ABDRÜCKSTIFT - ESPULSORE

Notes

Material: 16MnCr5
HRC: 58÷60

STOCK

Standard VW/Audi

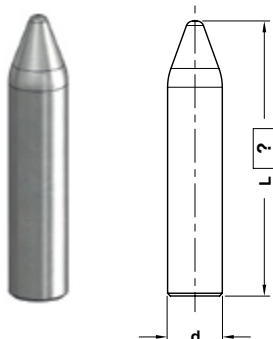


VW CODE

39V 1234/2

VW CODE	d1	d2	L	VW CODE	d1	d2	L	VW CODE	d1	d2	L
39V 1234/1	2,9	8	41	39V 1234/10	5,4	10	42	39V 1234/19	9,9	13	100
39V 1234/2	3,4	8	41	39V 1234/11	5,9	10	42	39V 1234/20	12,9	16	100
39V 1234/3	3,9	8	41	39V 1234/12	6,0	10	30	39V 1234/21	12,9	16	125
39V 1234/4	4,0	8	30	39V 1234/13	6,0	10	40	39V 1234/22	15,9	20	100
39V 1234/5	4,0	8	40	39V 1234/14	6,0	10	60	39V 1234/23	15,9	20	125
39V 1234/6	4,0	8	50	39V 1234/15	6,4	10	42	39V 1234/24	9,9	20	100
39V 1234/7	4,3	10	42	39V 1234/16	8,0	13	80	39V 1234/25	9,9	20	125
39V 1234/8	4,9	10	42	39V 1234/17	8,0	13	100				
39V 1234/9	5,3	10	42	39V 1234/18	9,9	13	80				

GAGE - EINWEISER - RIFERIMENTO



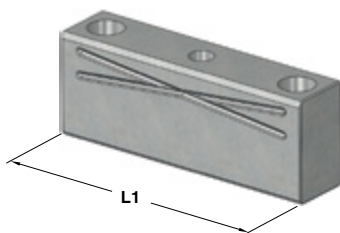
Notes

Material: 16MnCr5 - **HRC:** 58÷60
 Only for replacement
 Nur für Reparatur
 Solo per riparazione



ORDER EXAMPLE	VW CODE	L=100
	39V 1242/3	100
VW CODE		d
39V 1242/1	16	
39V 1242/2	20	
39V 1242/3	25	

LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO



Notes

Material: 16MnCr5 - **HRC:** 58÷60



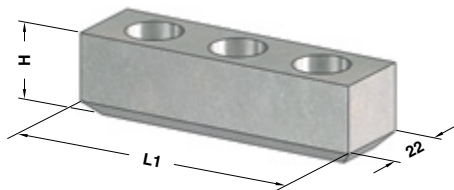
ORDER EXAMPLE	VW CODE
	39V 1254/10
VW CODE	L1
39V 1254/10	100
39V 1254/11	125
39V 1254/12	160
39V 1254/13	200

KEY - PASSFEDER - CHIAVETTA

Notes

Material: CK45

STOCK



VW CODE

39V 1304/2

VW CODE	H	L1	VW CODE	H	L1	VW CODE	H	L1
39V 1304/1	14	50	39V 1304/7	22	50	39V 1304/11	40	50
39V 1304/2	14	80	39V 1304/8	22	80	39V 1304/12	40	80
39V 1304/3	14	100	39V 1304/9	22	100	39V 1304/13	40	100
39V 1304/4	14	125	39V 1304/10	22	125	39V 1304/14	40	125

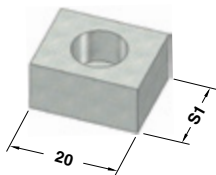
Standard VW/Audi

KEY - PASSFEDER - CHIAVETTA

Notes

Material: CK45

STOCK

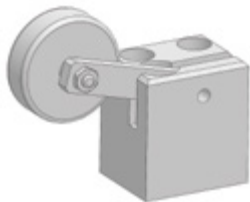


VW CODE

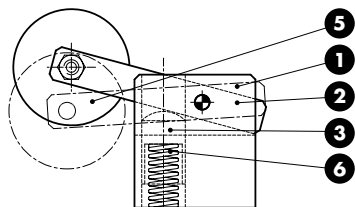
39V 1304/6

VW CODE	S1
39V 1304/5	12
39V 1304/6	16

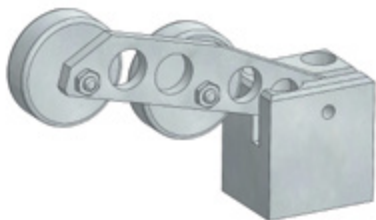
ROLLER STOCK LIFTER - FEDERENDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



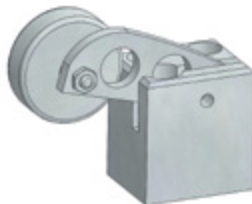
39V 1569/1



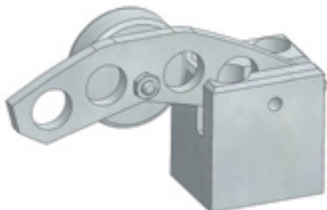
Notes	
1	Material: C15
2	Material: S235JRG2K
3	Material: 42CrMo4
5	Material: Steel
6	Spring



39V 1569/2



39V 1569/3



39V 1569/4

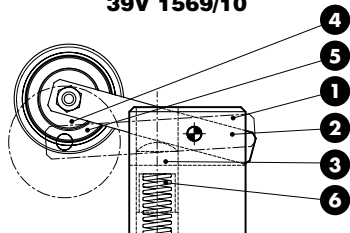
	VW CODE
	39V 1569/2

VW CODE
39V 1569/1
39V 1569/2
39V 1569/3
39V 1569/4

ROLLER STOCK LIFTER - FEDERENDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



39V 1569/10



Notes

- 1 Material: C15
- 2 Material: S235JRG2K
- 3 Material: 42CrMo4
- 4 Material: Steel
- 5 DIN 625-1 (6303-2Z)
- 6 Spring



Standard VW/Audi



39V 1569/11



39V 1569/12
39V 1569/14



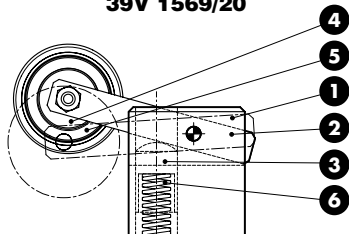
39V 1569/13

ORDER EXAMPLE	VW CODE
	39V 1569/11
VW CODE	
39V 1569/10	
39V 1569/11	
39V 1569/12	
39V 1569/13	
39V 1569/14	

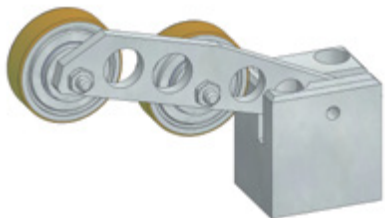
ROLLER STOCK LIFTER - FEDERENDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



39V 1569/20



- Notes**
- 1 Material: C15
 - 2 Material: S235JRG2K
 - 3 Material: 42CrMo4
 - 5 Material: Steel + Vulkolan
 - 6 Spring



39V 1569/21



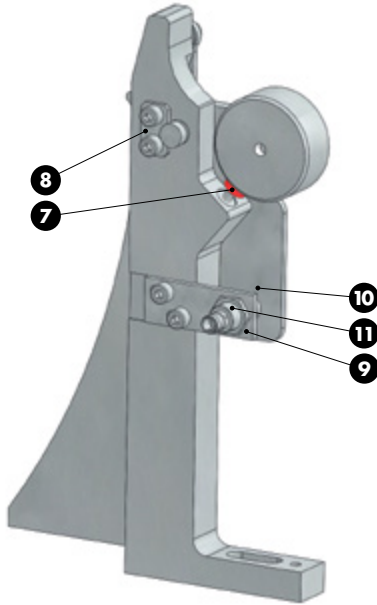
39V 1569/22



39V 1569/23

	VW CODE
	39V 1569/21
VW CODE	
39V 1569/20	
39V 1569/21	
39V 1569/22	
39V 1569/23	

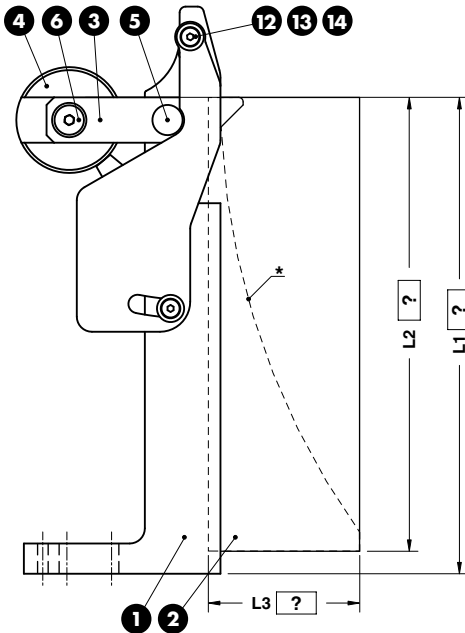
GAGE WITH POSITION CONTROL
KLAPPEINWEISER MIT LAGEKONTROLLE
RIFERIMENTO CON CONTROLLO DI POSIZIONE



- Notes**
- 1 2 3 5 8**
 - Material:** 16MnCr5
 - 4 9 10 Material:** S235JRG2K
 - 6** M10x30 DIN 7991
 - 7** DESTACO 202208M
 - 11** BALLUFF
 - 12** C13.30.08012 (x2)
 - 13** Washer PCM 241201.5M
 - 14** E46.20.008012008
 - 15** DIN 912 (x4)



* Bei Konstruktion festlegen
 Set in construction
 Realizzato in costruzione



ORDER EXAMPLE	VW CODE	L1=315	L2=310	L3=50
	1D 301260	315	310	50

VW CODE
1D 301260





OMCR®

STANDARD DIE COMPONENTS



STANDARD

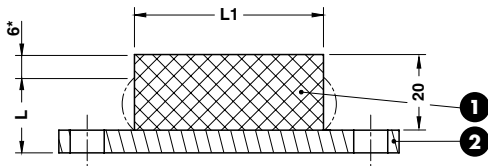
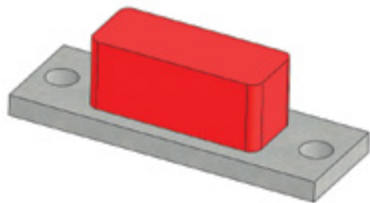


<p>BCD 7247</p>	<p>BCD 7247,316</p>  <p>Cam Buffer Anschlag Arresto</p> <p>531</p>	<p>BCD 8265</p>	<p>BCD 8265,411</p>  <p>Balance block Distanzstück Distanziale</p> <p>531</p>	<p>BCD 8271</p>
<p>BCD 8271,812</p>  <p>Lifting pin Tragbolzen mit fallringsicherung Perno di sollevamento</p> <p>532</p>	<p>BCD 8271,862</p>  <p>Spacer blocks Distanzstück Distanziale</p> <p>533</p>	<p>BCD 8272</p>	<p>BCD 8272,22</p>  <p>Wear plate Vdi 3357 Gleitplatte Vdi 3357 Piastra guida Vdi 3357</p> <p>534</p>	<p>BCD 8272,22</p>  <p>Wear plate Vdi 3357 Gleitplatte Vdi 3357 Piastra guida Vdi 3357</p> <p>535</p>
<p>BCD 8272,411</p>  <p>Guide pillars Führungssäule Colonna</p> <p>536</p>	<p>BCD 8272,411</p>  <p>Guide post retainer with retainer ring Führungssäule mit sprengring Ritegno per colonna con anello di tenuta</p> <p>537</p>	<p>BCD 8272,412</p>  <p>Guide post DIN 9833 Führungssäule DIN 9833 Colonna DIN 9833</p> <p>538</p>	<p>BCD 8272,421</p>  <p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p> <p>539</p>	<p>BCD 8272,421</p>  <p>Toe clamp Haltestück Ritegno per boccola</p> <p>539</p>
<p>BCD 8272,677</p>  <p>Cam dwell wear plate VDI 3357 Überlaufkeile VDI 3357 Cuneo VDI 3357</p> <p>540</p>	<p>BCD 8272,677</p>  <p>Cam dwell wear plate VDI 3357 Überlaufkeile VDI 3357 Cuneo VDI 3357</p> <p>541</p>	<p>BCD 8272,841</p>  <p>Locating cone Kegeldistanz Cono di centraggio</p> <p>542</p>	<p>BCD 8272,852</p>  <p>Locating pin Zentrierbolzen Perno di centraggio</p> <p>543</p>	<p>BCD 8272,6759</p>  <p>"V" driver VDI 3357 Prismenführung VDI 3357 Guida A "V" VDI 3357</p> <p>543</p>

BCD 8272,6759	BCD 8272,6759	BCD 8272,6759	BCD 8272,6759	BCD 8272,6759
"V" driver VDI 3357 Prismenführung VDI 3357 Guida a "V" VDI 3357	"V" driver with positive return Prismenführung mit Zwangsrückholer Guida a "V" con gancio Di Ritorno	"V" driver Prismenführung Guida a "V"	"V" driver Prismenführung Guida a "V"	"V" driver Prismenführung Guida a "V"
543	544	544	545	545
BCD 8272,6759	BCD 8272,6759	BCD 8272,6759	BCD 8272,6759	BCD 8272,6759
"V" driver Prismenführung Guida a "V"	Adjustment plate lower Justierplatte unten Piastra di registrazione inferiore	Adjustment plate front Justierplatte vorne Piastra di registrazione frontale	Adjustment plate front Justierplatte vorne Piastra di registrazione frontale	Adjustment plate rear Justierplatte hinten Piastra di registrazione posteriore
545	546	546	546	547
BCD 8272,6759	BCD 8272,6759	BCD 8283		BCD 8283,133
Adjustment plate rear Justierplatte hinten Piastra di registrazione posteriore	Positive return Zwangsrückholer Gancio	Support for sensor Lagekontrolle für platinen Supporto sensore	Gage hardened Einweiser gehärtet Riferimento indurito	
547	547	548	548	
BCD 8283,134	BCD 8284		BCD 8284,67	BCD 8284,85
Gage for sensor Einweiser für teillagekontrolle Riferimento per sensore	Stripper for blanking dies Abstreifer für platinenschnitte Estrattore per stampi	Pad retainer pin VDI 3365 Steckbolzen VDI 3365 Perno di arresto VDI 3365	Lock washer Sicherungsscheibe Piastrina di sicurezza	
549	549	550	550	

BCD 8284,92	BCD 8284,92
	
<p>Ground collar screw Schraube mit distanzrohr Vite con colletto</p>	<p>Buffer Stossdämpfer Ammortizzatore</p>
<p>551</p>	<p>551</p>

CAM BUFFER - ANSCHLAG - ARRESTO



Notes

1 **Material:** Polyurethane 90 SH

2 **Material:** St37



*Max. deflection
Max. zul. Federweg
Deflessione massima

**Gegenkraft bei 6mm max. zul. Federweg
Max. reaction force with 6 mm deflection
Forza di reazione massima per deflessione di 6mm

***Maximal absorbierte Energie bei 6 mm max. zul. Federweg
Massima energia assorbita con deflessione di 6 mm

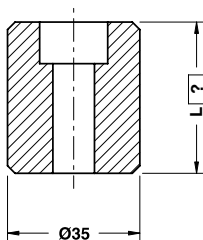


VOLVO CODE
9909206

VOLVO CODE	L1	Force for length "L" (kN)**	Max energy absorbtion with 6 mm deflection (J)***
9909205	50	10	30
9909206	100	20	60

Standard Volvo

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE



Notes

Material: CK45



VOLVO CODE	L=100
9917782	100

LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

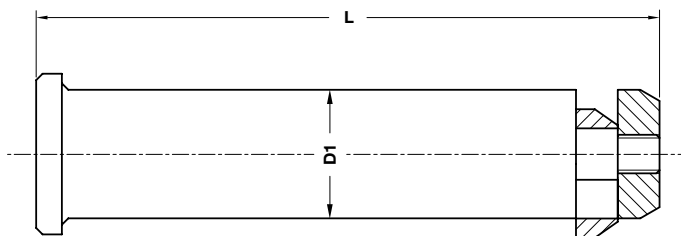
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: St52

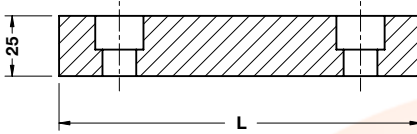


VOLVO CODE

39919041

VOLVO CODE	Max load (kg)	Max die weight (kg)	D1	L
39919040	2500	5000	40	195
39919041	8000	16000	63	285
39919042	12000	24000	63	327
39919043	20000	40000	80	402

SPACER BLOCK - DISTANZSTÜCK - DISTANZIALE



Notes

Material: CK45

STOCK

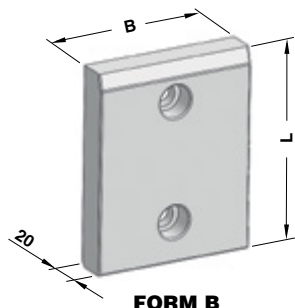


VOLVO CODE

39925954

VOLVO CODE	B	L	Max Load (t)
39925953	63,5	150	250
39925954	40,5	100	90

**WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357**



Notes
Material: 16MnCr5 - HRC 58±60



VOLVO CODE
3053663

VOLVO CODE	B	L	FORM	VOLVO CODE	B	L	FORM
3053662	50	160	B	3052289	100	315	B
3053663	50	200	B	3052290	125	100	G
3052279	80	100	B	3052291	125	160	G
3052280	80	160	B	3052292	125	200	G
3052281	80	200	B	3052293	125	250	G
3052282	80	250	B	3052294	125	315	G
3052283	80	315	B	3052295	160	100	G
3052284	100	50	D	3052296	160	160	G
3052285	100	100	B	3052297	160	200	G
3052286	100	160	B	3052298	160	250	H
3052287	100	200	B	3052299	160	315	H
3052288	100	250	B				

**WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**

Notes

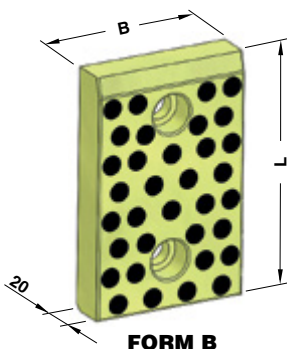
Material: Bronze + Graphite

HB > 190

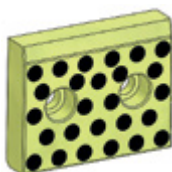
STOCK



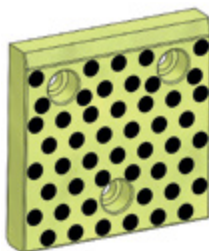
Standard Volvo



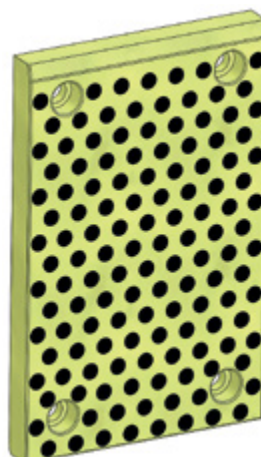
FORM B



FORM D



FORM G



FORM H



VOLVO CODE

3053665

VOLVO CODE	B	L	FORM	VOLVO CODE	B	L	FORM
3053664	50	160	B	3052310	100	315	B
3053665	50	200	B	3052311	125	100	G
3052300	80	100	B	3052312	125	160	G
3052301	80	160	B	3052313	125	200	G
3052302	80	200	B	3052314	125	250	G
3052303	80	250	B	3052315	125	315	G
3052304	80	315	B	3052316	160	100	G
3052305	100	50	D	3052317	160	160	G
3052306	100	100	B	3052318	160	200	G
3052307	100	160	B	3052319	160	250	H
3052308	100	200	B	3052320	160	315	H
3052309	100	250	B				

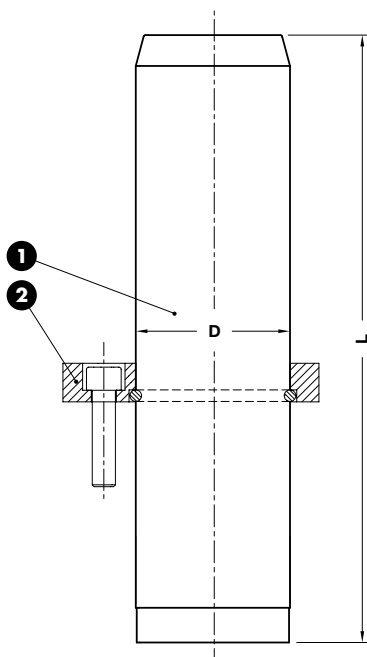
AFNOR GUIDE POST FÜHRUNGSSÄULE AFNOR COLONNA AFNOR



Notes

1 Material: 16MnCr5 - HRC: 60±62

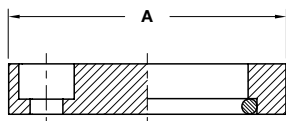
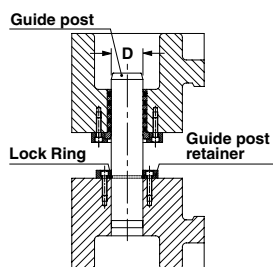
2 3053052/3053058



VOLVO CODE
3053018

VOLVO CODE	D	L	VOLVO CODE	D	L	VOLVO CODE	D	L
3053017	25	140	3053027	40	250	3053041	63	400
3053018	25	160	3053030	50	200	3053044	80	315
3053019	25	180	3053031	50	220	3053045	80	355
3053020	32	140	3053032	50	250	3053046	80	400
3053021	32	160	3053033	50	280	3053047	80	500
3053022	32	180	3053034	50	315	3053049	100	355
3053023	32	200	3053037	63	250	3053050	100	400
3053024	40	180	3053038	63	280	3053051	100	500
3053025	40	200	3053039	63	315			
3053026	40	220	3053040	63	355			

AFNOR GUIDE POST RETAINER WITH RETAINER RING
FÜHRUNGSSÄULE AFNOR MIT SPRENGRING
RITEGNO PER COLONNA AFNOR CON ANELLO DI TENUTA

**Notes****Material:** CK45**stock****Application Example****VOLVO CODE**

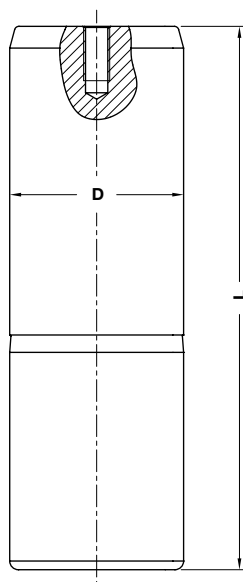
3053053

VOLVO CODE	A	D (guide post)
3053052	45	25
3053053	56	32
3053054	70	40
3053055	80	50
3053056	100	63
3053057	110	80
3053058	140	100

GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA DIN 9833

Notes

Material: 16MnCr5 - HRC: 60±2

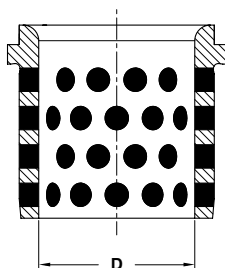


VOLVO CODE

3051001

VOLVO CODE	D	L	VOLVO CODE	D	L	VOLVO CODE	D	L
3053374	25	140	3051009	50	200	3051017	80	315
3051001	25	160	3051010	50	224	3053388	80	355
3053375	25	180	3053381	50	250	3051018	80	400
3053376	32	140	3051011	50	280	3053389	100	315
3051003	32	160	3053382	50	315	3053390	100	355
3051004	32	180	3053383	63	200	3051020	100	400
3051005	32	200	3053384	63	224	3051022	100	500
3053377	40	160	3051013	63	250	3051023	125	400
3051006	40	180	3053385	63	280	3051024	125	450
3051007	40	200	3051014	63	315	3051025	125	500
3053378	40	224	3051015	63	355	3051026	160	400
3051008	40	250	3051016	63	400	3051027	160	450
3053379	50	160	3053386	80	250	3051028	160	500
3053380	50	180	3053387	80	280			

BUSH SELF-LUBRICATING DIN 9834
FÜHRUNGSBUCHSE DIN 9834
BOCCOLA AUTOLUBRIFICANTE DIN 9834



Notes

Material: Bronze + Graphite
HB > 190



VOLVO CODE

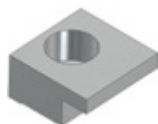
3051059

VOLVO CODE

D

3051058	25
3051059	32
3051060	40
3051061	50
3051062	63
3051063	80
3051064	100
3051065	125
3051066	160

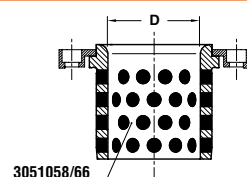
TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



Notes

Material: CK45

Application example



VOLVO CODE

3053618

VOLVO CODE

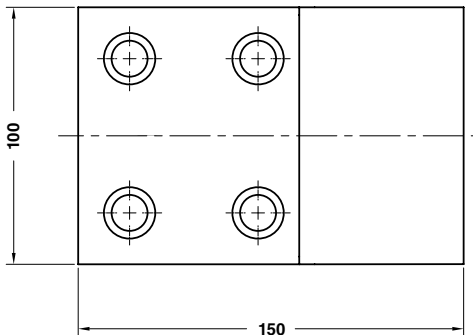
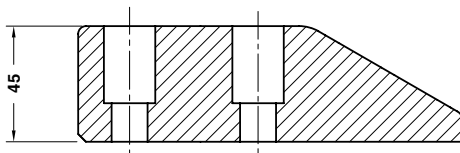
D

3053617	25÷50
3053618	63÷160

**CAM DWELL WEAR PLATE STEEL VDI 3357
 UBERLAUFKEILE STAHL VDI 3357
 CUNEO IN ACCIAIO VDI 3357**

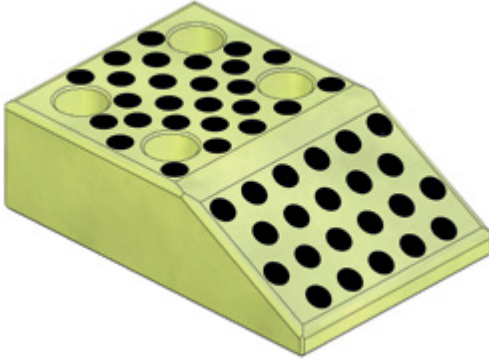


Notes
Material: 42CrMo4
HRC: 58÷60



	VOLVO CODE
	3053061
VOLVO CODE	
3053061	

CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
CUNEO AUTOLUBRIFICANTE VDI 3357



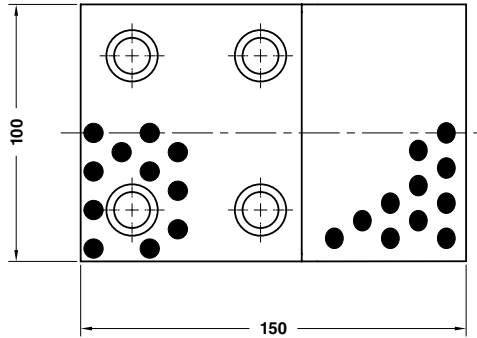
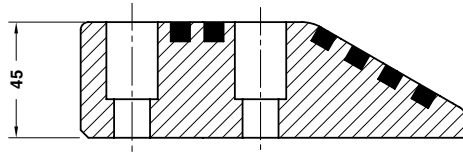
Notes

Material: Bronze + Graphite
HB > 190

STOCK



Standard Volvo



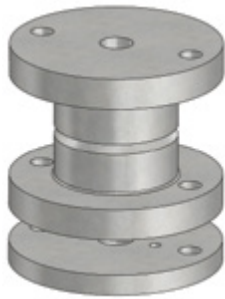
VOLVO CODE

3053062

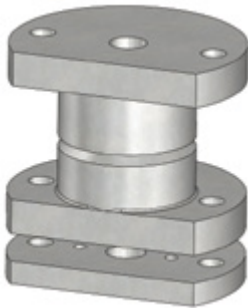
VOLVO CODE

3053062

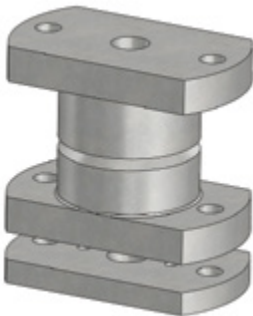
LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A



FORM B

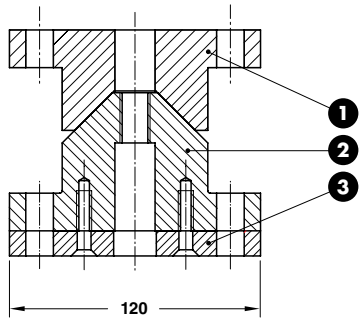


FORM C

Notes

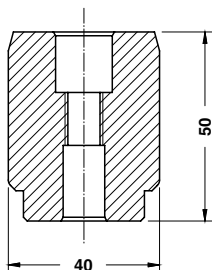
1 2 **Material:** 16MnCr5
HRC: 58÷60

3 **Material:** CK45



	VOLVO CODE
	3054831
VOLVO CODE	FORM
3054830	A
3054831	B
3051349	C

LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO



Notes

Material: 16MnCr5 - HRC: 60±62

STOCK



VOLVO CODE

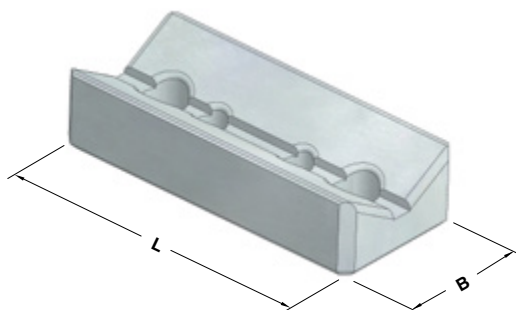
9910244

VOLVO CODE

9910244

Standard Volvo

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357



STOCK

Notes

Material: CK45 - HRC: 58±60



VOLVO CODE

3052819

VOLVO CODE

B

L

3052818

65

150

3052819

65

200

3052820

125

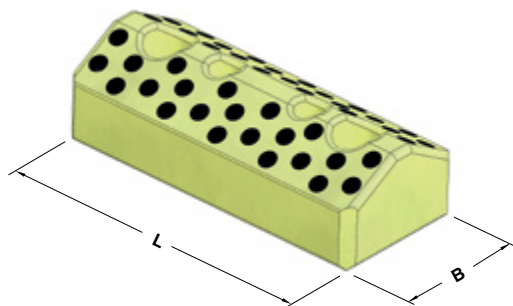
150

3052821

125

200

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357



STOCK

Notes

Material: Bronze + Graphite - HB >190



VOLVO CODE

3052823

VOLVO CODE

B

L

3052822

65

150

3052823

65

200

3052824

125

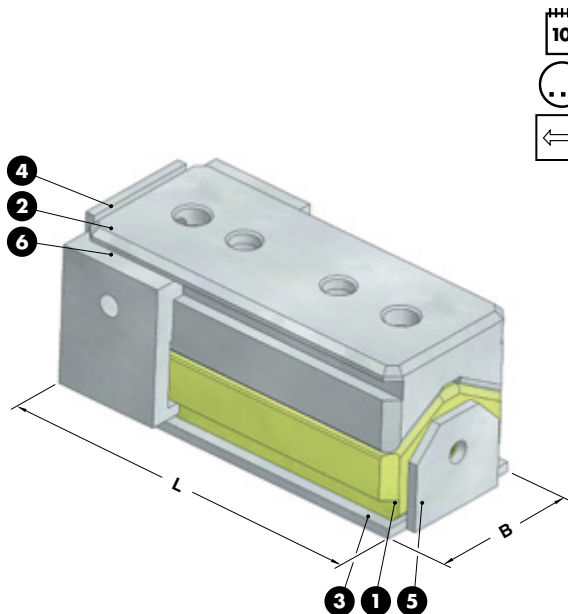
150

3052825

125

200

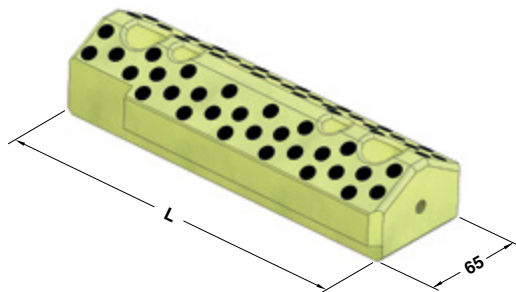
**"V" DRIVER WITH POSITIVE RETURN
PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
GUIDA A "V" CON GANCIO DI RITORNO**



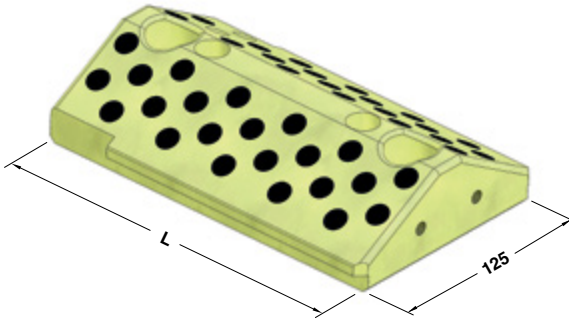
Notes	
1	39925989÷92
2	39925993÷96
3	39925997÷39926000
4	39926003÷39926004
5	39926001÷39926002
6	39926005

ORDER EXAMPLE	VOLVO CODE	
	39925986	
VOLVO CODE		
	B	L
39925985	65	150
39925986	65	200
39925987	125	150
39925988	125	200

"V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"



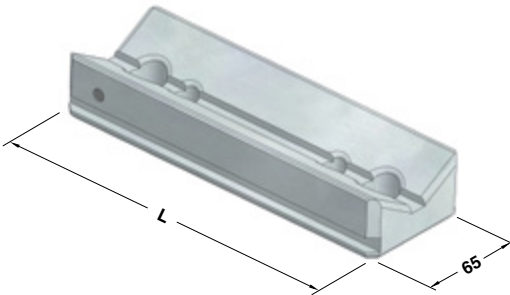
Notes		
Material: Bronze + Graphite - HB >190		
STOCK	↔	
ORDER EXAMPLE	VOLVO CODE	
	39925990	
VOLVO CODE		
	L	
39925989	150	
39925990	200	

BCD 8272,6759**OMCR****"V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"****Notes****Material:** Bronze + Graphite - HB >190

VOLVO CODE
39925992

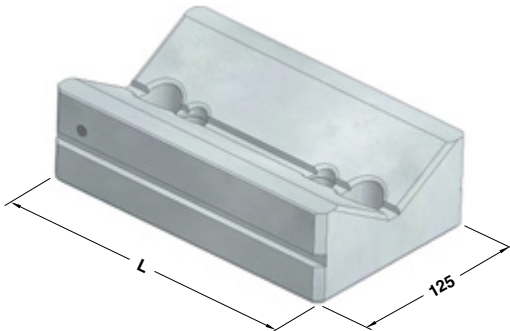
VOLVO CODE	L
39925991	150
39925992	200

Standard Volvo

BCD 8272,6759**OMCR****"V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"****Notes****Material:** CK45 - HRC: 58÷60

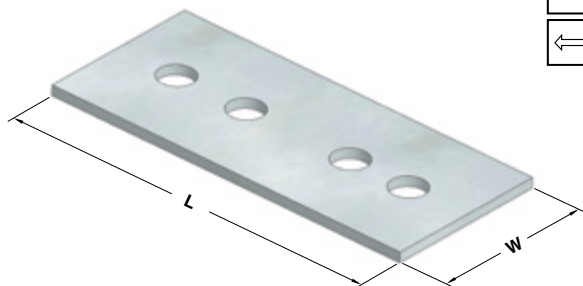
VOLVO CODE
39925994

VOLVO CODE	L
39925993	150
39925994	200

BCD 8272,6759**OMCR****"V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"****Notes****Material:** CK45 - HRC: 58÷60

VOLVO CODE
39925996

VOLVO CODE	L
39925995	150
39925996	200

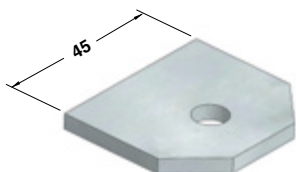
BCD 8272,6759**OMCR****ADJUSTMENT PLATE LOWER - JUSTIERPLATTE UNTEN - PIASTRA DI REGISTRAZIONE INFERIORE**

STOCK

↔

Notes
Material: S355JR

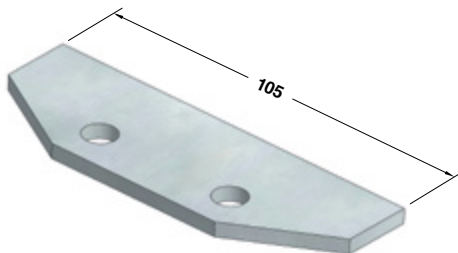
ORDER EXAMPLE	VOLVO CODE	
	39925998	
VOLVO CODE	W	L
39925997	65	150
39925998	65	200
39925999	125	150
39926000	125	200

BCD 8272,6759**OMCR****ADJUSTMENT PLATE FRONT - JUSTIERPLATTE VORNE - PIASTRA DI REGISTRAZIONE FRONTALE**

Notes
Material: S355JR

STOCK

ORDER EXAMPLE	VOLVO CODE
	39926001
VOLVO CODE	
	39926001

BCD 8272,6759**OMCR****ADJUSTMENT PLATE FRONT - JUSTIERPLATTE VORNE - PIASTRA DI REGISTRAZIONE FRONTALE**

Notes
Material: S355JR

STOCK

ORDER EXAMPLE	VOLVO CODE
	39926002
VOLVO CODE	
	39926002

BCD 8272,6759

OMCR

ADJUSTMENT PLATE REAR - JUSTIERPLATTE HINTEN - PIASTRA DI REGISTRAZIONE POSTERIORE



Notes

Material: S355JR

STOCK



VOLVO CODE

39926003

VOLVO CODE

39926003

Standard Volvo

BCD 8272,6759

OMCR

ADJUSTMENT PLATE REAR - JUSTIERPLATTE HINTEN - PIASTRA DI REGISTRAZIONE POSTERIORE



Notes

Material: S355JR

STOCK



VOLVO CODE

39926004

VOLVO CODE

39926004

BCD 8272,6759

OMCR

POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO



Notes

Material: 34CrNiMo6

STOCK



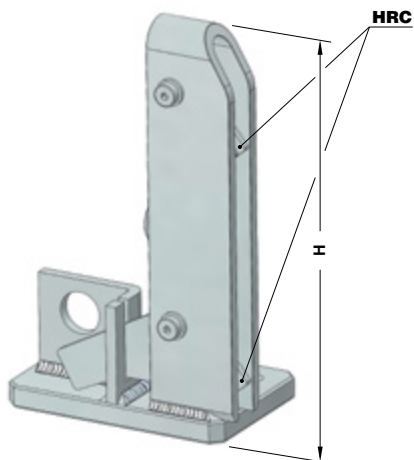
VOLVO CODE

39926005

VOLVO CODE

39926005

SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



Notes

Material: Steel - **HRC:** 58÷60

STOCK

* As shown in drawing
Gemäß zeichnung
Come a disegno

** Opposite to drawing
Spiegelverkehrt
Opposto al disegno

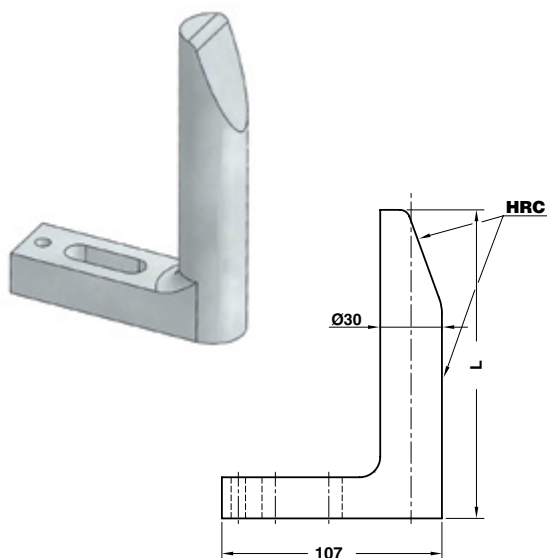


VOLVO CODE

5935476

VOLVO CODE	H	SIDE
5935475	145	LEFT**
5935476	145	RIGHT*
5935477	185	LEFT**
5935478	185	RIGHT*

GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO



Notes

Material: CK60 - **HRC:** 58÷60

STOCK

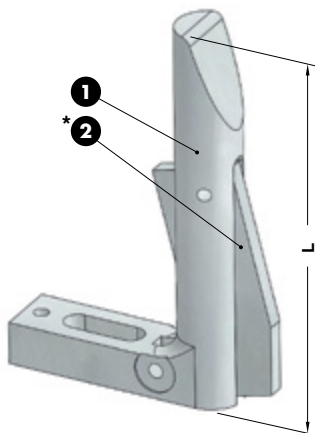


VOLVO CODE

3051755

VOLVO CODE	L
3051754	65
3051755	90
3051756	120
3051757	150
3051758	180
3051759	250

GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE



* With short plate
Mit kurz platte
Con piastra corta

Notes

- 1 Material: CK60
- 2 Material: Si37 HRC: 58÷60

STOCK



VOLVO CODE

3051761

VOLVO CODE

L

3051760* 120

3051761* 150

3051762 180

3051763 250

STRIPPER FOR BLANKING DIES - ABSTREIFER FÜR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



Notes

Material: Elastomer 70SH

STOCK



VOLVO CODE

3042342

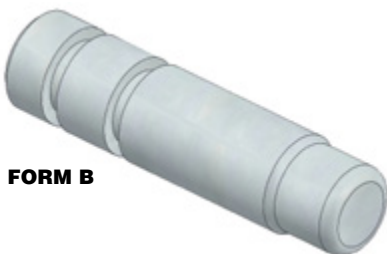
VOLVO CODE

3042342

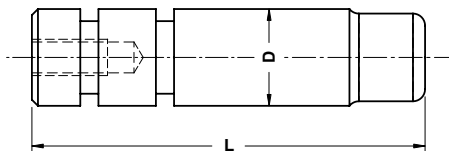
PAD RETAINER PIN VDI 3365 - STECKBOLZEN VDI 3365 - PERNO DI ARRESTO VDI 3365



FORM A



FORM B



Notes

Material: 42CrMo4

Only for replacement

Nur für Reparatur

Solo per riparazione

STOCK



VOLVO CODE

9900734

VOLVO CODE	D	L	FORM
9900733	25	125	A
9900734	32	145	A
9900735	40	150	A
9900736	50	175	A
9900737	63	210	A
9900738	25	152	B
9900739	32	167	B
9900740	40	167	B
9900741	50	182	B
9900742	63	207	B

LOCK WASHER - SICHERUNGSSCHEIBE - PIASTRINA DI SICUREZZA



Notes

Material: S235JR

STOCK



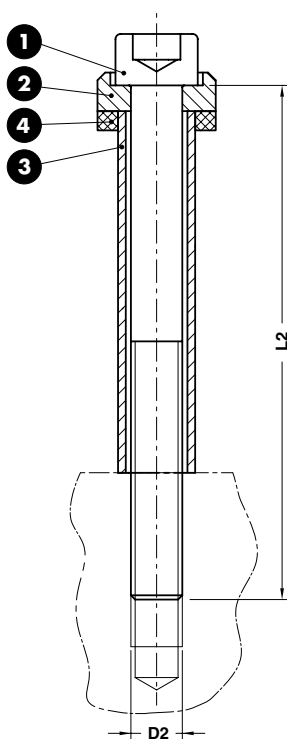
VOLVO CODE

9900743

VOLVO CODE

9900743

GROUND COLLAR SCREW - SCHRAUBE MIT DISTANZROHR - VITE CON COLLETO



Notes

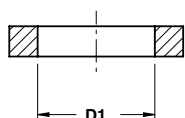
- ❶ DIN 912 cl. 12.9
- ❷ **Material:** Steel 1000 N/mm²
- ❸ **Material:** Steel 1200±1400 N/mm²
- ❹ 5935907÷5935910



VOLVO CODE
5935900

VOLVO CODE	D2	L2
5935899	M8	80
5935900	M10	90
5935901	M10	100
5935902	M10	110
5935903	M12	115
5935904	M12	135
5935905	M16	125
5935906	M16	145

BUFFER - STOSSDÄMPFER - AMMORTIZZATORE



STOCK

Notes

Material: Elastomer 90 SH

VOLVO CODE
5935908

VOLVO CODE	D1
5935907	13
5935908	15,5
5935909	18
5935910	26





**CAM UNITS
SCHIEBER
UNITÀ A CAMME**



Cam Units Schieber Unità a Camme

Ⓞ Since over ten years **OMCR** works in the fields of shearing cam units and it gained a wide experience both in designing and in realizing cam units in various geometries and dimensions. This catalogue offers a wide range to satisfy almost every technical need.

Among these ones stands the **Star Cam Series (CHD, CHV, CLB, CRX e DHC)**, cam units which express the best characteristics in **performance, competitiveness and service.**

Ⓞ Seit mehr als 10 Jahren stellt **OMCR** Schieber her und hat umfangreiche Erfahrungen in der Konstruktion und Produktion von Schiebern in den verschiedensten Ausführungen gesammelt. In diesem Katalog sind viele unterschiedliche Schieber enthalten, um nahezu alle technischen Belange abzudecken.

Hervorragend sind unsere **Star Cam Series (CHD, CHV, CLB, CRX e DHC)**, Schieber die beste Eigenschaften von **Performance, Wettbewerbsfähigkeit** und **Service** in sich vereinen.

Ⓞ Da oltre dieci anni **OMCR** opera nel settore delle camme di tranciatura ed ha acquisito un'ampia esperienza sia nella progettazione che nella realizzazione di unità a camme in svariate geometrie e dimensioni. Questo catalogo propone un'ampia gamma per poter far fronte a qualsiasi esigenza tecnica.

Tra queste spicca la **Star Cam Series (CHD, CHV, CLB, CRX e DHC)**, camme che esprimono le migliori caratteristiche di **performance, competitività e servizio.**



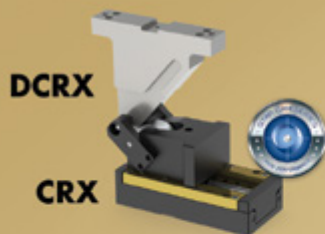
Aerial Cam Units
Oben Hangender Schieber
Unità a Camme Sospese



CHD CHR CHV CHY CLB
 VDI NORM
 HEAVY DUTY
 SCHWERLAST
 LAVORI PESANTI

CHK CLC CLD CLF CLK
 LIGHT DUTY
 LEICHTE
 LAVORI LEGGERI

Roller Cam Units
Rollenschieber
Unità a Camme a Rullo



DCRX CRX
 HEAVY DUTY
 SCHWERLAST
 LAVORI PESANTI

Die Mounted Cam Units
Horizontalschieber
Unità a Camme a Base Stampo



DHC
 HEAVY DUTY
 SCHWERLAST
 LAVORI PESANTI

DLC DLCA DLD
 LIGHT DUTY
 LEICHTE
 LAVORI LEGGERI



GB DOWNLOAD CAM DATA

On **www.omcr.it** you can find, besides CAD 3D (IGES, STEP, CATIA V5, UNIGRAPHICS) data, technical specific informations and the catalogue in PDF format.

D DOWNLOAD SCHIEBERDATEN

Auf **www.omcr.it** finden Sie abgesehen von den 3D CAD Daten (IGES, STEP, CATIA V5, UNIGRAPHICS) auch spezifische technische Informationen, unseren Katalog als pdf-Datei und Eine Suchmaschine.

I DOWNLOAD DATI CAMME

Su **www.omcr.it** è possibile trovare, oltre ai dati CAD 3D (IGES, STEP, CATIA V5, UNIGRAPHICS), informazioni tecniche specifiche, e il catalogo in formato PDF.



Download from our web-site all the information about OMCR Cam Units.
 Alle Informationen über Schieber von OMCR können Sie von unserer Internetseite downloaden.
 Scarica dal nostro sito tutte le informazioni sulle Unità a Camme OMCR.

📄 CAM SEARCH

By consulting the search engine on our website, you can choose the most suitable cam units for any type of project through information about **forces, price** and **delivery times**.

📄 SCHIEBERSUCHE

Über die Suchmaschine auf unserer Internetseite können Sie den für das jeweilige Projekt am besten geeigneten Schieber anhand von Informationen zu **Kraft, Preis** und **Lieferzeit** auswählen.

📄 RICERCA CAMME

Consultando il motore di ricerca sul nostro sito, puoi scegliere l'unità a camma più adatta ad ogni tipo di progetto attraverso informazioni di **forza, prezzo** e **tempi di consegna**.



Cam Units



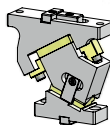
Visit the Cam Search page on our website.
 Bitte gehen Sie auf unsere Internetseite und klicken Sie auf „Schiebersuche“.
 Visita la pagina Ricerca Camme sul nostro sito.



CHD

Aerial Cam Units

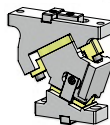
CHD050



Work Angle 0°±65°
Work Force 60 kN

580

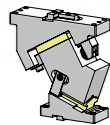
CHD065



Work Angle 0°±65°
Work Force 60 kN

584

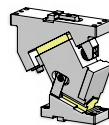
CHD080



Work Angle 0°±65°
Work Force 149 kN

588

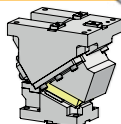
CHD100



Work Angle 0°±65°
Work Force 149 kN

592

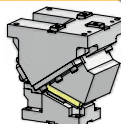
CHD150



Work Angle 0°±65°
Work Force 391 kN

596

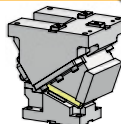
CHD180



Work Angle 0°±65°
Work Force 396 kN

600

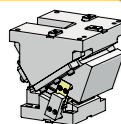
CHD200



Work Angle 0°±65°
Work Force 396 kN

604

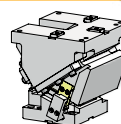
CHD250



Work Angle 0°±65°
Work Force 645 kN

608

CHD300



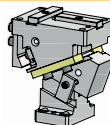
Work Angle 0°±65°
Work Force 645 kN

612

CHK

Aerial Cam Units

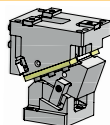
CHK065



Work Angle 0°±70°
Work Force 58 kN

618

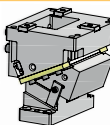
CHK100



Work Angle 0°±70°
Work Force 96 kN

622

CHK200



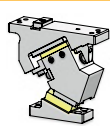
Work Angle 0°±70°
Work Force 231 kN

626

CHR

Aerial Cam Units

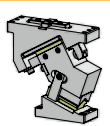
CHR070



Work Angle 0°±60°
Work Force 90 kN

632

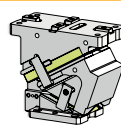
CHR080



Work Angle 0°±60°
Work Force 153 kN

636

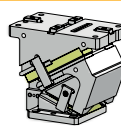
CHR165



Work Angle 0°±60°
Work Force 340 kN

640

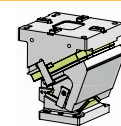
CHR200



Work Angle 0°±60°
Work Force 408 kN

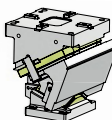

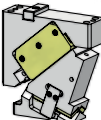
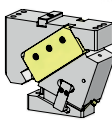
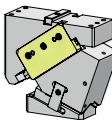
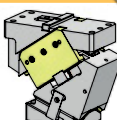
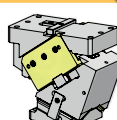
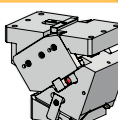
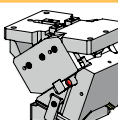
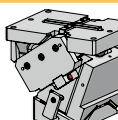


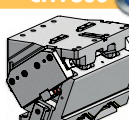

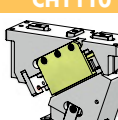
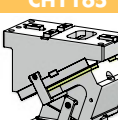
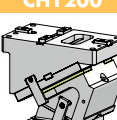
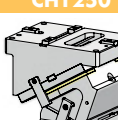
644

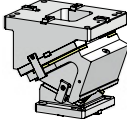
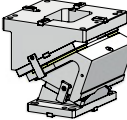

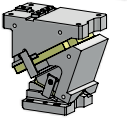
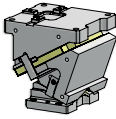
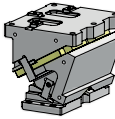
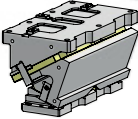
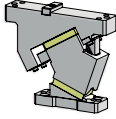
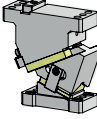
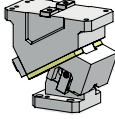
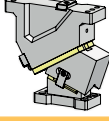
CHR300

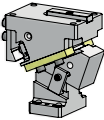
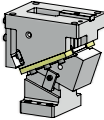
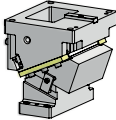

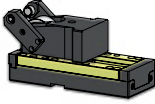
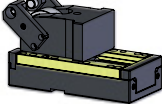
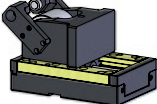
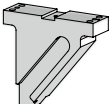

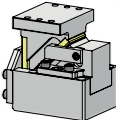
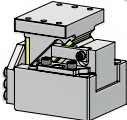
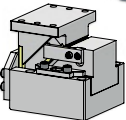
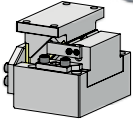
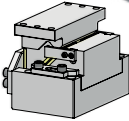
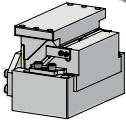
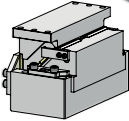
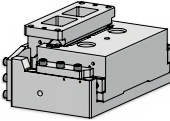


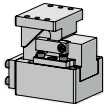
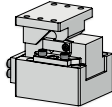
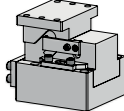
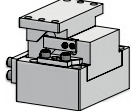
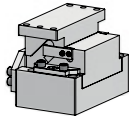
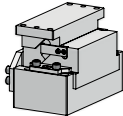
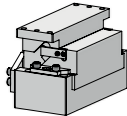
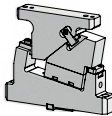
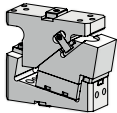
Work Angle 0°±60°
Work Force 521 kN

648

<p>CHR400</p> 	 <p>CHV Aerial Cam Units</p>	<p>CHV060</p> 	<p>CHV085</p> 	<p>CHV110</p> 
<p>Work Angle 0°±60° Work Force 521 kN</p> <p>652</p>		<p>Work Angle 0°±75° Work Force 136±143 kN</p> <p>658</p>	<p>Work Angle 0°±75° Work Force 229±293 kN</p> <p>662</p>	<p>Work Angle 0°±75° Work Force 357±407 kN</p> <p>666</p>
<p>CHV150</p> 	<p>CHV180</p> 	<p>CHV220</p> 	<p>CHV260</p> 	<p>CHV330</p> 
<p>Work Angle 0°±75° Work Force 421±584 kN</p> <p>670</p>	<p>Work Angle 0°±75° Work Force 474±598 kN</p> <p>674</p>	<p>Work Angle 0°±75° Work Force 635±732 kN</p> <p>678</p>	<p>Work Angle 0°±75° Work Force 536±767 kN</p> <p>682</p>	<p>Work Angle 0°±75° Work Force 1006±1020 kN</p> <p>686</p>
<p>CHV400</p> 	<p>CHV500</p> 	<p>CHV600</p> 	<p>CHY Aerial Cam Units</p>	
<p>Work Angle 0°±75° Work Force 1052±1055 kN</p> <p>690</p>	<p>Work Angle 0°±75° Work Force 1155 kN</p> <p>694</p>	<p>Work Angle 0°±75° Work Force 1202 kN</p> <p>698</p>		
<p>CHY085</p> 	<p>CHY110</p> 	<p>CHY165</p> 	<p>CHY200</p> 	<p>CHY250</p> 
<p>Work Angle 0°±75° Work Force 106 kN</p> <p>708</p>	<p>Work Angle 0°±75° Work Force 160 kN</p> <p>712</p>	<p>Work Angle 0°±75° Work Force 183 kN</p> <p>716</p>	<p>Work Angle 0°±75° Work Force 230 kN</p> <p>720</p>	<p>Work Angle 0°±75° Work Force 302 kN</p> <p>724</p>

<p>CHY300</p>  <p>Work Angle $0^{\circ} \pm 75^{\circ}$ Work Force 389 kN</p> <p>728</p>	<p>CHY350</p>  <p>Work Angle $0^{\circ} \pm 75^{\circ}$ Work Force 428 kN</p> <p>732</p>	<p>CHY400</p>  <p>Work Angle $0^{\circ} \pm 75^{\circ}$ Work Force 473 kN</p> <p>736</p>	 <p>CLB Aerial Cam Units</p>	<p>CLB200</p>  <p>Work Angle $0^{\circ} \pm 60^{\circ}$ Work Force 302 kN</p> <p>742</p>
<p>CLB300</p>  <p>Work Angle $0^{\circ} \pm 60^{\circ}$ Work Force 411 kN</p> <p>746</p>	<p>CLB400</p>  <p>Work Angle $0^{\circ} \pm 60^{\circ}$ Work Force 526 kN</p> <p>750</p>	<p>CLB500</p>  <p>Work Angle $0^{\circ} \pm 60^{\circ}$ Work Force 743 kN</p> <p>754</p>	<p>CLB600</p>  <p>Work Angle $0^{\circ} \pm 60^{\circ}$ Work Force 865 kN</p> <p>758</p>	
<p>CLC Aerial Cam Units</p>	<p>CLC050</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 41 kN</p> <p>764</p>	<p>CLC065</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 42 kN</p> <p>768</p>	<p>CLC080</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 83 kN</p> <p>772</p>	<p>CLC150</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 140 kN</p> <p>776</p>
<p>CLD Aerial Cam Units</p>	<p>CLD052</p>  <p>Work Angle $0^{\circ} \pm 80^{\circ}$ Work Force 31 kN</p> <p>782</p>	<p>CLF Aerial Cam Units</p>	<p>CLF080</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 116 kN</p> <p>788</p>	<p>CLF150</p>  <p>Work Angle $0^{\circ} \pm 70^{\circ}$ Work Force 192 kN</p> <p>792</p>

CLK Aerial Cam Units	CLK065  Work Angle $0^{\circ} \div 70^{\circ}$ Work Force 39÷58 kN 798	CLK100  Work Angle $0^{\circ} \div 70^{\circ}$ Work Force 87÷96 kN 802	CLK200  Work Angle $0^{\circ} \div 70^{\circ}$ Work Force 193÷231 kN 806	 CRX Aerial Cam Units
	CRX03 	CRX05 	CRX15 	
Work Force 76 kN Work Angle $-15^{\circ} \div 50^{\circ}$ 812	Work Force 162 kN Work Angle $-15^{\circ} \div 50^{\circ}$ 816	Work Force 166 kN Work Angle $-15^{\circ} \div 50^{\circ}$ 820	Work Force 258 kN Work Angle $-15^{\circ} \div 50^{\circ}$ 824	Work Angle $-15^{\circ} \div 50^{\circ}$ 828
DCRX1520 	 DHC Die Mounted Cam Units	DHC052 	DHC065 	DHC100 
Work Angle $-15^{\circ} \div 50^{\circ}$ 830	Work Angle 0° Work Force 38 kN 834	Work Angle $0^{\circ} \div 20^{\circ}$ Work Force 44÷48 kN 838	Work Angle $0^{\circ} \div 20^{\circ}$ Work Force 75÷82 kN 842	
DHC150 	DHC200 	DHC250 	DHC300 	DHC400 
Work Angle $0^{\circ} \div 20^{\circ}$ Work Force 120÷127 kN 846	Work Angle 0° Work Force 176 kN 850	Work Angle 0° Work Force 232 kN 854	Work Angle 0° Work Force 272 kN 858	Work Angle 0° Work Force 480 kN 862

<p>DLC-DLCA Die Mounted Cam Units</p>	<p>DLC-DLCA052</p> 	<p>DLC-DLCA065</p> 	<p>DLC-DLCA100</p> 	<p>DLC-DLCA150</p> 				
	<p>Work Angle 0° Work Force 30 kN</p>	<p>Work Angle 0°±20° Work Force 39 kN</p>	<p>Work Angle 0°±20° Work Force 59±78 kN</p>	<p>Work Angle 0°±20° Work Force 88±98 kN</p>				
	868	872	876	880				
	<p>DLC-DLCA200</p> 		<p>DLC-DLCA250</p> 		<p>DLC-DLCA300</p> 		<p>DLD Die Mounted Cam Units</p>	<p>DLD052</p> 
	<p>Work Angle 0° Work Force 126 kN</p>		<p>Work Angle 0° Work Force 158 kN</p>		<p>Work Angle 0° Work Force 189 kN</p>			<p>Work Angle 0°±20° Work Force 40 kN</p>
884		888		892		898		
<p>DLD090</p> 								
<p>Work Angle 0°±15° Work Force 79 kN</p>								
902								



CHD

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



☞ Strong and reliable, **CHD** cam units are suggested for heavy-duty applications. Seven models with work angles from **0° to 65°** (5° steps), **work forces from 60 to 645 kN**, **slider widths from 50 to 300 mm**. It is possible to choose between coil spring and gas spring for the extraction.

☞ Unsere **CHD** Schieber sind für schwere Anwendungen geeignet. Sieben Modelle mit **Arbeitswinkel von 0° bis 65°** (in 5° Schritten), **Arbeitskraft 60 bis 645 kN**, **Nutzbreite 50 bis 300 mm**. Wahlmöglichkeit zwischen Rückholung mit Schraubendruckfeder oder Gasdruckfeder.

☞ Robuste ed affidabili, le camme **CHD** sono indicate per impieghi gravosi. Sette modelli con **angolo di lavoro da 0° a 65°** (a passi di 5°), **forze di lavoro da 60 a 645 kN**. **Larghezze utili da 50 a 300 mm**. Possibilità di scegliere il ritorno con molla a filo o molla a gas.

CHV

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



☞ **CHV** models represent the TOP of the whole range of OMCR's cam units. They have compact size, high work and extraction forces. They are built with high-strength materials which ensure excellent resistance to unbalanced loads and very good punching precision. They are characterized by easy maintainability thanks to the use of normalized wear plates (VDI3357) and to the possibility of gas spring demounting under press. Eleven models with work angles from **0° to 75°** (5° steps), **work forces from 136 to 1202 kN**, **slider widths from 60 to 600 mm**.

☞ Die **CHV** Schieber sind unser innovativstes Produkt. Kompakte Auslegung, hohe Arbeits- und Rückholkraft auch bei hohen Drehmomenten. Sie sind besonders geeignet, wenn eine hohe Stanzgenauigkeit gefragt ist und werden aus sehr widerstandsfähigen Materialien hergestellt. Einfache Instandhaltung durch genormte Gleitplatten (VDI3357) und in der Presse demontierbare Gasdruckfedern. Elf Modelle mit **Arbeitswinkel von 0° bis 75°** (in 5° Schritten), **Arbeitskraft 136 bis 1202 kN**, **Nutzbreite 60 bis 600 mm**.

☞ Le camme **CHV** rappresentano il TOP dell'intera gamma. Hanno dimensioni compatte, forze di lavoro e di estrazione elevate e un'ottima resistenza alle forze torcenti. Sono particolarmente indicate quando è necessaria un'elevata precisione di foratura. Vengono costruite con materiali ad alta resistenza. Garantiscono facilità di manutenzione grazie alle piastre di scorrimento normalizzate (VDI3357) e allo smontaggio delle molle a gas sotto pressa. Undici modelli con **angolo di lavoro da 0° a 75°** (a passi di 5°), **forze di lavoro da 136 a 1202 kN**. **Larghezze utili da 60 a 600 mm**.

CLB

**AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOESPESE**



Ⓜ Strong and compact, **CLB** cam units offer a very competitive price/performance ratio. Five models with work angles from **0° to 60°** (5° steps), **work forces from 302 to 865 kN**, **slider widths from 200 to 600 mm**. It is possible to choose between **coil spring and gas spring** for the extraction.

Ⓜ Robust und kompakt bieten die **CLB** Schieber ein sehr wettbewerbsfähiges Preis-/Leistungsverhältnis. Fünf Modelle mit **Arbeitswinkel von 0° bis 60°** (in 5° Schritten), **Arbeitskraft 302 bis 865 kN**, **Nutzbreite 200 bis 600 mm**. Wahlmöglichkeit zwischen Rückholung mit Schraubendruckfeder oder Gasdruckfeder.

Ⓜ Robuste e compatte, le camme **CLB** offrono un rapporto performance/prezzo molto competitivo. Cinque modelli con **angolo di lavoro da 0° a 60°** (a passi di 5°), **forze di lavoro da 302 a 865 kN**. **Larghezze utili da 200 a 600 mm**. Possibilità di scegliere il ritorno con **molla a filo o molla a gas**.

CRX

**ROLLER CAM UNITS
ROLLENSCHIEBER
CAMME A RULLO**



Ⓜ Thanks to their compact size, **CRX** cam units are particularly suited to make close punchings. Ease of mounting and flexibility in applications are their strong points. Four models with work angles from **-15°** (back-draft punching) to **50°** (free angle steps), **work forces from 76 to 258 kN**, **slider widths from 98 to 240 mm**, three available strokes for each model (**50, 80 and 100 mm**). **New positive returns** for extraction. **Normalized driver wedge with work angles from -15° to 50°** (5° steps).

Ⓜ **CRX** Schieber sind Dank Ihrer kompakten Abmessungen besonders bei nahe aneinander liegenden Stanzdurchbrüchen geeignet. Einfache Montage und flexible Anwendung sind ihre Stärke. Vier Modelle mit **Arbeitswinkel ab -15°** (Stanzen im Hinterschnitt) bis **50°** (alle Zwischengrade einsetzbar), **Arbeitskraft 76 bis 258 kN**, **Nutzbreite 98 bis 240 mm**, **Hub 50, 80 und 100 mm** für jedes Modell. **Neue Sicherheits-Zwangsrückholung. Genormte Treiber für Arbeitswinkel von -15° bis 50°** (in 5° Schritten).

Ⓜ L'utilizzo delle camme **CRX**, grazie alle loro dimensioni compatte, è particolarmente indicato nel caso di forature ravvicinate. Facilità di montaggio e flessibilità nell'applicazione sono il loro punto di forza. Quattro modelli con **angolo di lavoro da -15°** (foratura in sottosquadro) a **50°** (applicabili in tutti i gradi intermedi), **forze di lavoro da 76 a 258 kN**. **Larghezze utili da 98 a 240 mm**. **Corse di 50, 80 e 100 mm** per ogni modello. **Nuovi ganci di sicurezza** per l'estrazione. **Cunei di azionamento normalizzati per angoli di lavoro da -15° a 50°** (a passi di 5°).

DHC

**AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE**



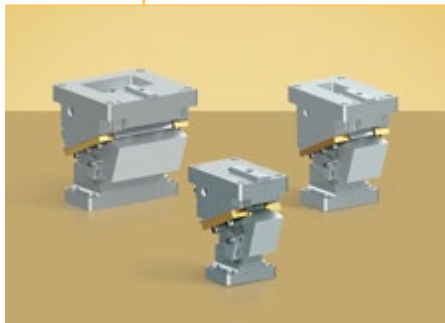
Ⓞ **DHC** die mounted cam units are suited to make heavy drilling and flanging workings thanks to the structure in spheroid cast iron. They are characterized by easy maintainability thanks to the use of wear plates self-lubricating and steel on the most stressed slidings. Seven models with **work forces from 38 to 480kN**. Slider widths **from 52 to 400 mm**, **work angle 0° for 52, 200, 250, 300 and 400 mm widths**, **work angles from 0° to 20° (5° steps) for 65, 100 and 150 mm widths**. Extraction by coil spring or gas spring.

Ⓛ Die unten liegenden Schieber **DHC** sind dank Ihrer Struktur aus Kugeliguss für schwere Stanz- und Biegearbeiten geeignet. Sie gewährleisten aufgrund der Verwendung von Gleitplatten aus Bronze mit Festschmierstoff/Stahl auf den besonders beanspruchten Gleitflächen eine einfachere Instandhaltung. **Es gibt sieben Modelle mit Arbeitskräften von 38 bis 480 kN, Nutzbreite von 52 bis 400 mm, Arbeitswinkel 0° für die Breiten 52, 200, 250, 300 und 400 mm, Arbeitswinkel von 0° bis 20° (in 5° Schritten) für die Breiten 65, 100 und 150 mm**, Rückzug mit Schraubendruckfeder oder Gasdruckfeder möglich.

Ⓛ Le camme a base stampo **DHC** sono adatte a lavorazioni di foratura e flangiatura gravose grazie alla struttura in ghisa sferoidale; garantiscono una maggiore facilità di manutenzione grazie all'utilizzo di piastre bronzo-grafite/acciaio sugli scorrimenti più sollecitati. Sette modelli con **forze di lavoro da 38 a 480 kN. Larghezze utili da 52 a 400 mm, angolo di lavoro 0° per le larghezze 52, 200, 250, 300 e 400 mm, angolo di lavoro da 0° a 20° (a passi di 5°) per le larghezze 65, 100 e 150 mm**. Possibilità di ritorno con molla a filo o molla a gas.

CHK

**AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE**



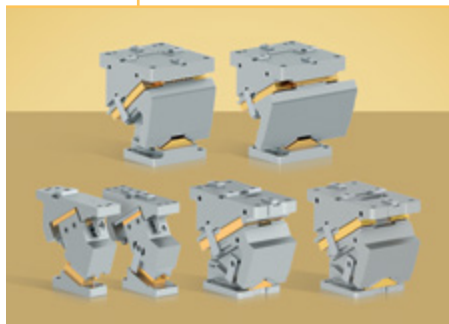
Ⓞ **CHK** aerial cam units are suited to make medium-light drilling and flanging workings. They look different from CLK ones because of the presence of a V guide on the Driver to improve the alignment precision. Three models with **work angles from 0° to 70° (5° steps for 65 mm width and 10° steps for 100 and 200 mm widths)**, **work forces from 58 to 231 kN**. **Slider widths from 65 to 200 mm**. Extraction only by coil spring.

Ⓛ Die oben hängenden Schieber **CHK** sind für leichte und mittlere Bohr- und Bördelarbeiten geeignet. Sie unterscheiden sich vom CLK Modell durch eine zusätzliche Prismenführung am Driver zur Verbesserung der Annäherungsgenauigkeit. Drei Modelle mit **Arbeitswinkel von 0° bis 70° (in 5° Schritten)**, **Arbeitskraft von 58 bis 231 kN, Nutzbreite von 65 bis 200 mm**. Rückzug nur mit Schraubendruckfeder möglich.

Ⓛ Le camme aeree **CHK** sono adatte a lavorazioni di foratura e flangiatura medio leggere. Differiscono dalle più essenziali CLK per la presenza di una guida a V sul Driver che migliora la precisione di allineamento. Tre modelli con **angolo di lavoro da 0° a 70° (a passi di 5° per la larghezza 65 mm e a passi di 10° per le larghezze 100 e 200 mm)**, **forze di lavoro da 58 a 231 kN. Larghezze utili da 65 a 200 mm**. Possibilità di ritorno solo con molla a filo.

CHR

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



Ⓒ **CHR** aerial cam units are suited to make heavy drilling and flanging workings. Six models with **work angles from 0° to 60° (5° steps)**, **work forces from 90 to 521 kN**. Slider widths from 70 to 400 mm. Manufactured according to **NAAMS** norms, these cam units are equipped of cam accelerator to soften the noise level starting from width 165 mm. It is possible to choose between coil spring and gas spring for the extraction.

Ⓓ Die oben hängenden Schieber **CHR** sind für schwere Bohr- und Bördelarbeiten geeignet. Sechs Modelle mit **Arbeitswinkel von 0° bis 60°** (in 5° Schritten), **Arbeitskraft von 90 bis 521 kN**, **Nutzbreite von 70 bis 400 mm**. Diese Schieber nach **NAAMS** Norm verfügen ab einer Breite von 165 mm über einen Beschleuniger zur Geräuschkämpfung. Rückzug mit Schraubendruckfeder oder Gasdruckfeder möglich.

Ⓘ Le camme aeree **CHR** sono adatte a lavorazioni di foratura e flangiatura gravose. Sei modelli con **angolo di lavoro da 0° a 60°** (a passi di 5°), **forze di lavoro da 90 a 521 kN**. **Larghezze utili da 70 a 400 mm**. Queste camme, realizzate secondo normativa NAAMS, sono dotate di acceleratore per attenuazione della rumorosità a partire dalla larghezza 165. Possibilità di ritorno con molla a filo o molla a gas.

CHY

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



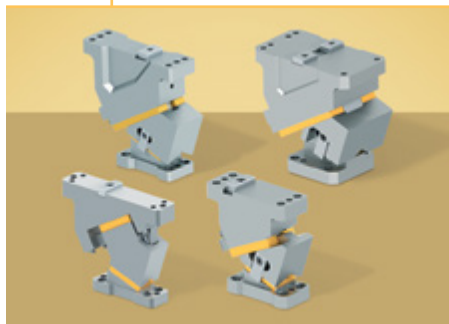
Ⓒ **CHY** aerial cam units are suited to make heavy drilling and flanging workings. Nine models with **work angles from 0° to 75° (5° steps)**, **work forces from 79 to 473 kN**. **Slider widths from 70 to 400 mm**. Extraction only by gas spring.

Ⓓ Die oben hängenden Schieber **CHY** sind für schwere Bohr- und Bördelarbeiten geeignet. Neun Modelle mit **Arbeitswinkel von 0° bis 75°** (in 5° Schritten), **Arbeitskraft von 79 bis 473 kN**, **Nutzbreite von 70 bis 400 mm**. Rückzug nur mit Gasdruckfeder möglich.

Ⓘ Le camme aeree **CHY** sono adatte a lavorazioni di foratura e flangiatura gravose. Nove modelli con **angolo di lavoro da 0° a 75°** (a passi di 5°), **forze di lavoro da 79 a 473 kN**. **Larghezze utili da 70 a 400 mm**. Possibilità di ritorno solo con molla a gas.

CLC

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSEPSE



GB CLC aerial cam units are suited to make medium-light drilling and flanging workings. Four models with **work angles from 0° to 70°** (5° steps), **work forces from 41 to 140 kN**. **Slider widths from 50 to 150 mm**. Extraction only by coil spring.

D Die oben hängenden Schieber **CLC** sind besonders für leichte und mittlere Stanz- und Bördelarbeiten geeignet. Vier Modelle mit **Arbeitswinkel von 0° bis 70°** (in 5° Schritten), **Arbeitskraft von 41 bis 140 kN**, **Nutzbreite von 50 bis 150 mm**. Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CLC** sono adatte a lavorazioni di foratura e flangiatura medio-leggere. Quattro modelli con **angolo di lavoro da 0° a 70°** (a passi di 5°), **forze di lavoro da 41 a 140 kN**. **Larghezze utili da 50 a 150 mm**. Possibilità di ritorno solo con molla a filo.

CLD

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSEPSE



GB CLD aerial cam units are extremely compact and suited to make medium-light drilling workings. They are not well suited to make flanging workings. One model with **work angles from 0° to 80°** (5° steps), **work forces from 31 kN**. Extraction only by coil spring.

D Die oben hängenden Schieber **CLD** sind extrem kompakt und für leichte und mittlere Stanzarbeiten geeignet. Für Bördelarbeiten sind sie nicht geeignet. Ein Modell mit **Arbeitswinkel von 0° bis 80°** (in 5° Schritten), **Arbeitskraft 31 kN**. Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CLD** sono estremamente compatte e adatte a lavorazioni di foratura medio-leggere. Non sono idonee a lavorazioni di flangiatura. Un modello con **angolo di lavoro da 0° a 80°** (a passi di 5°), **forze di lavoro di 31 kN**. Possibilità di ritorno solo con molla a filo.

CLF

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



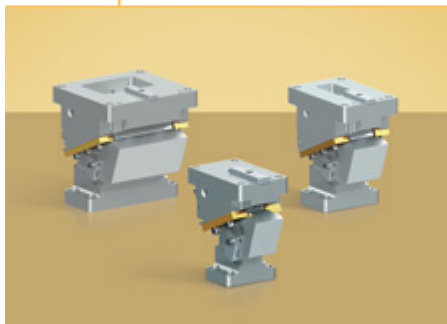
GB CLF aerial cam units are suited to make medium-light drilling and flanging workings. Two models with **work angles from 0° to 70° (5° steps)**, **work forces from 116 to 192 kN**. **Slider widths from 80 to 150 mm**. Extraction only by enhanced coil spring.

D Die oben hängenden Schieber CLF sind für leichte bis mittlere Stanz- und Bördelarbeiten geeignet. Zwei Modelle mit **Arbeitswinkel von 0° bis 70° (in 5° Schritten)**, **Arbeitskraft von 116 bis 192 kN**, **Nutzbreite von 80 bis 150 mm**. Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree CLF sono adatte a lavorazioni di foratura e flangiatura medio-leggere. Due modelli con **angolo di lavoro da 0° a 70° (a passi di 5°)**, **forze di lavoro da 116 a 192 kN**. **Larghezze utili da 80 a 150 mm**. Ritorno solo con molla a filo rinforzata.

CLK

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESE



GB CLK aerial cam units are suited to make medium-light drilling workings. They are not well suited to make flanging workings. Three models with **work angles from 0° to 70° (5° steps)**, **work forces from 39 to 231 kN**. **Slider widths from 65 to 200 mm**. Extraction only by coil spring.

D Die oben hängenden Schieber CLK sind für leichte und mittlere Stanzarbeiten geeignet. Für Bördelarbeiten sind sie nicht geeignet. Drei Modelle mit **Arbeitswinkel von 0° bis 70° (in 5° Schritten)**, **Arbeitskraft 39 bis 231 kN**, **Nutzbreite von 65 bis 200 mm**. Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree CLK sono adatte a lavorazioni di foratura medio leggera. Non sono idonee a lavorazioni di flangiatura. Tre modelli con **angolo di lavoro da 0° a 70° (a passi di 5°)**, **forze di lavoro da 39 a 231 kN**. **Larghezze utili da 65 a 200 mm**. Possibilità di ritorno solo con molla a filo.

DLC DLCA

DIE MOUNTED CAM UNIT
HORIZONTALSCHIEBER SCHIEBER
UNITÀ A CAMME A BASE STAMPO



Ⓞ **DLC/DLCA** die mounted cam units are suited to make medium-light drilling and flanging workings. Seven models with **work forces from 30 to 189 kN**. **Slider widths from 52 to 300 mm, work angle 0° for 52, 200, 250 and 300 mm widths, work angles from 0° to 20° (5° steps) for 65, 100 and 150 mm widths.** Extraction only by coil spring.

Ⓞ Die Horizontalschieber **DLC/DLCA** sind für leichte und mittlere Bohr- und Bördelarbeiten geeignet. Drei Modelle mit **Arbeitskraft von 30 bis 78 kN, Nutzbreite von 52 bis 100 mm, Arbeitswinkel 0° bei Breite 52, Arbeitswinkel von 0° bis 20° (in 5° Schritten) bei Breite 65 und 90.** Rückzug nur mit Schraubendruckfeder möglich.

Ⓞ Le camme a base stampo **DLC/DLCA** sono adatte a lavorazioni di foratura e flangiatura medio-leggere. Sette modelli con forze di lavoro da 30 a 189 kN. **Larghezze utili da 52 a 300 mm, angolo di lavoro 0° per le larghezze 52, 200, 250 e 300 mm, angolo di lavoro da 0° a 20° (a passi di 5°) per le larghezze 65, 100 e 150 mm.** Possibilità di ritorno solo con molla a filo.

DLD

DIE MOUNTED CAM UNIT
HORIZONTALSCHIEBER SCHIEBER
UNITÀ A CAMME A BASE STAMPO



Ⓞ **DLD** die mounted cam are suited to make medium-light drilling. They are not suited for flanging operations. Two models with **work force of 40 to 79 kN**. **Widths from 52 to 90 mm, working angle from 0° to 20° (5° steps) for 52 mm width and working angle from 0° to 15° (5° steps) for 90 mm width.** Extraction only by coil spring.

Ⓞ Die Horizontalschieber **DLD** sind für leichte und mittlere Bohrarbeiten geeignet. Sie sind nicht für Bördelarbeiten geeignet. Zwei Modelle mit **Arbeitskraft von 40 bis 79 kN, Nutzbreite von 52 bis 90 mm, Arbeitswinkel 0° bis 20° (in 5° Schritten) bei Breite 52, Arbeitswinkel von 0° bis 15° (in 5° Schritten) bei Breite 90.** Rückzug nur mit Schraubendruckfeder möglich.

Ⓞ Le camme a base stampo **DLD** sono adatte a lavorazioni di foratura medio leggera. Non sono idonee a lavorazioni di flangiatura. Due modelli con **forze di lavoro da 40 a 79 kN. Larghezze utili da 52 a 90 mm, angolo di lavoro da 0° a 20° (a passi di 5°) per la larghezza 52 e angolo di lavoro da 0° a 15° (a passi di 5°) per la larghezza 90.** Possibilità di ritorno solo con molla a filo.

Special Cam Unit, Sonderschieber, Unità a Camme Speciali

Ⓜ Thanks to the acquired experience in the realization of its wide range of cam units, **OMCR** plans and builds even special or multiple cam units according to design specifications of the customer, to satisfy particular production needs. **Moreover it's possible to ask for additional workings on normalized cam units.** The images in this page show some examples of the achievable solutions.

Ⓜ **OMCR** konstruiert und produziert Dank der Erfahrung bei der Herstellung seiner großen Produktpalette an Schiebern auch Sonderschieber nach den spezifischen Projektanforderungen des Kunden, die spezielle Anforderungen bei der Produktion berücksichtigen. **Auch zusätzliche Bearbeitungen an Normschiebern führen wir durch.** Die Bilder auf dieser Seite stellen nur einige Beispiele aus der Vielfalt der realisierbaren Lösungen dar.

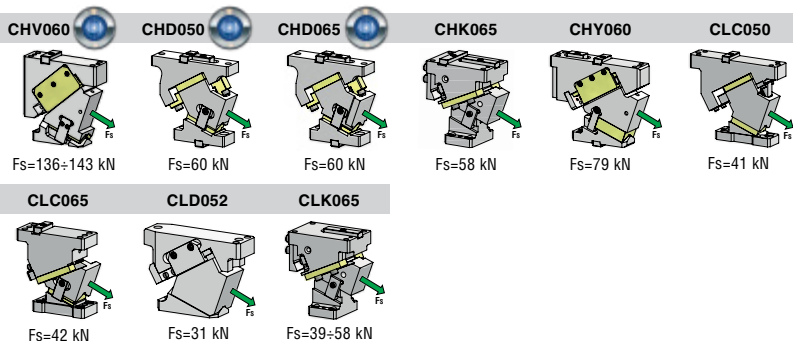
Ⓜ **OMCR**, grazie all'esperienza acquisita nella realizzazione della sua ampia gamma di unità a camme, progetta e costruisce anche unità a camme speciali o multiple su specifiche progettuali del cliente atte a soddisfare particolari esigenze di produzione. **È possibile inoltre richiedere lavorazioni aggiuntive su unità a camme normalizzate.** Le immagini di questa pagina illustrano alcuni esempi della varietà di soluzioni realizzate.



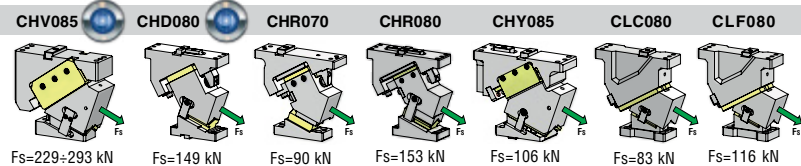
Aerial Cam Units - Oben Hängender Schieber - Unità a Camme Sospese

SLIDER WIDTH
(mm)

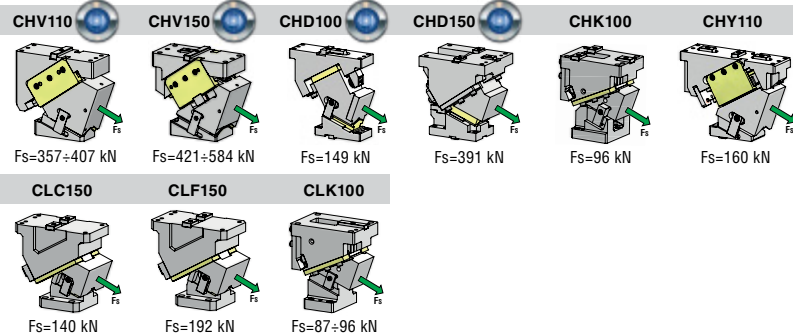
≤65



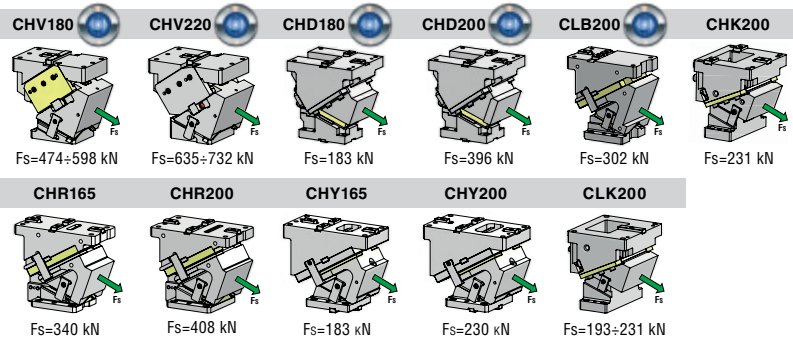
70÷85



100÷150



165÷220



Aerial Cam Units - Oben Hängender Schieber - Unità a Camme Sospese

SLIDER WIDTH
(mm)

250÷350	<p>CHV260</p> <p>Fs=536-767 kN</p>	<p>CHV330</p> <p>Fs=1006-1020 kN</p>	<p>CHD250</p> <p>Fs=645 kN</p>	<p>CHD300</p> <p>Fs=645 kN</p>	<p>CLB300</p> <p>Fs=411 kN</p>	<p>CHR300</p> <p>Fs=521 kN</p>	
	<p>CHY250</p> <p>Fs=302 kN</p>	<p>CHY300</p> <p>Fs=389 kN</p>	<p>CHY350</p> <p>Fs=428 kN</p>				
	≥400	<p>CHV400</p> <p>Fs=743 kN</p>	<p>CHV500</p> <p>Fs=1052-1055 kN</p>	<p>CHV600</p> <p>Fs=1155 kN</p>	<p>CLB400</p> <p>Fs=526 kN</p>	<p>CLB500</p> <p>Fs=743 kN</p>	
		<p>CLB600</p> <p>Fs=865 kN</p>	<p>CHR400</p> <p>Fs=521 kN</p>	<p>CHY400</p> <p>Fs=473 kN</p>			

Cam Units

Roller Cam Units - Rollenschieber - Unità a Camme a Rullo

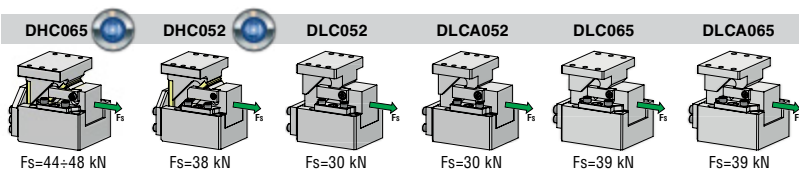
SLIDER WIDTH
(mm)

98÷118	<p>CRX03</p> <p>Fs=76 kN</p>	<p>CRX05</p> <p>Fs=162 kN</p>
	<p>CRX15</p> <p>Fs=166 kN</p>	<p>CRX20</p> <p>Fs=258 kN</p>

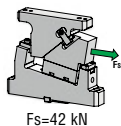
Die Mounted Cam Units - Horizontalschieber - Unità a Camme a Base Stampo

SLIDER WIDTH
(mm)

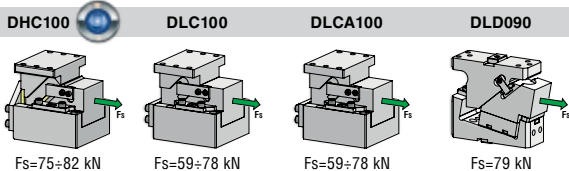
≤65



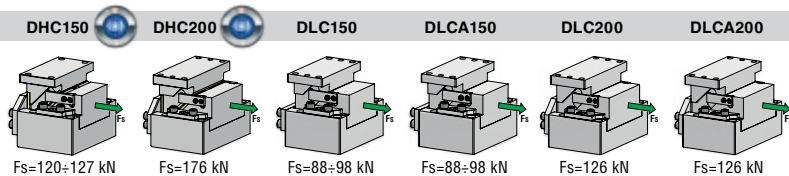
DLD052



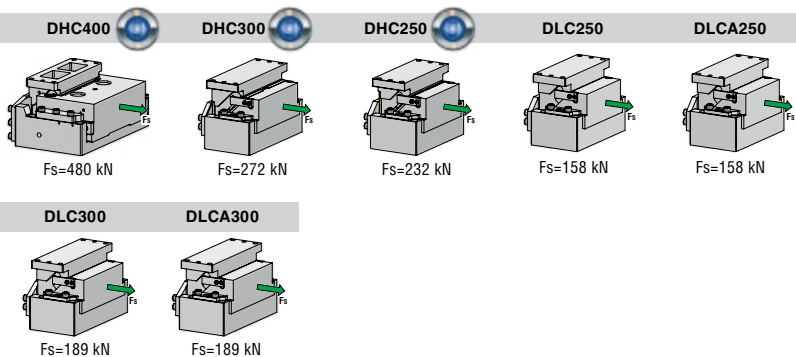
90÷100



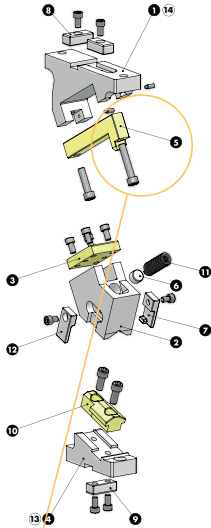
150÷200



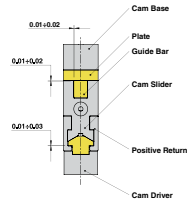
250÷400



Order example for replacement Bestellbeispiel für Ersatz Esempio d'ordine per particolari di ricambio

CHD050
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA


538

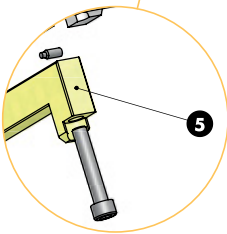
CHD050
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES


Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Cam Slider	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	CK45	1
5	Guide Bar	CuZn25Al5 + Graphite - HB > 190	1
6	Spring Spacer	CK45	1
7	Positive Return R	42CrMo4 Nitrated	1
8	Key	CK45	2
9	Key	CK45	1
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Spring	-	1
12	Positive Return L	42CrMo4 Nitrated	1
13	Cam Driver Flangy Screws M12x35 DIN 912	-	2
14	Cam Base Flangy Screws M12x45 DIN 912	-	2

539

Cam Unit GB

Cam Units


Particular number

 1
2
3


Cam Unit serial number	Omcrcode	Particular number
0512390	CHD050.65	5

- ⓐ Cam serial number
- ⓓ Schieber Seriennummer
- ⓞ Numero seriale dell'unità a camme

$$F = (Rm \times Sp \times L)/1000$$

CALCULATION OF BLANKING FORCE:

F = Blanking force (kN)

Rm = Sheet mechanical strength (N/mm²)

Sp = Sheet thickness (mm)

L = Blanking profile length (mm)

BERECHNUNG DER KRÄFTE BEIM STANZEN:

F = Stanzkraft (kN)

Rm = Scherfestigkeit (N/mm²)

Sp = Blechdicke (mm)

L = Stanzumfang (mm)

CALCOLO DELLA FORZA DI TRANCIATURA:

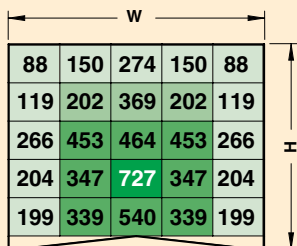
F = Forza di tranciatura (kN)

Rm = Resistenza meccanica lamiera (N/mm²)

Sp = Spessore lamiera (mm)

L = Lunghezza profilo di tranciatura (mm)

WORK FORCE DISTRIBUTION EXAMPLE



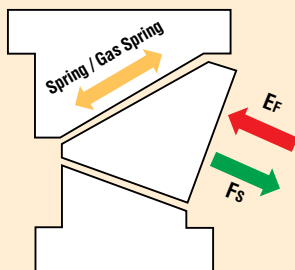
GE INFOS TO OBTAIN THE MAXIMUM PERFORMANCES:

- position the Cam Unit in shoulder (for other applications consult technical infos).
- the resultant of the blanking forces should be applied in the central area of the slider and perpendicular to the work surface (for work force diagrams consult technical infos on our website).
- it is recommended to lubricate the sliding elements in startup phase and once each 100.000 cycles.

DE UM BESTE ERGEBNISSE ZU ERZIELEN:

- Schieber mit Schulterung montieren (andere Anwendung siehe technische Informationen).
- Die Resultante der Schneidkräfte muss im mittleren Bereich des Schiebers und senkrecht zur Arbeitsfläche sein (für die Kraftdiagramme siehe technische Informationen auf unserer Webseite).
- Es wird empfohlen, die Führungselemente bei der Montage des Schiebers und alle 100.000 Zyklen zu schmieren.

EXTRACTION FORCE DIAGRAM



DI PER OTTENERE LE MASSIME PRESTAZIONI:

- applicare la camma in spallamento (per altre applicazioni consultare le info tecniche).
- la risultante delle forze di tranciatura deve essere applicata nella zona centrale della slitta e perpendicolare al piano di lavoro (per i diagrammi delle forze di lavoro consultare le info tecniche sul nostro sito internet).
- si consiglia di lubrificare gli elementi di guida in fase di messa a punto della camma e ogni 100.000 cicli.

GB EXTRACTION FORCE CALCULATION

The extraction force E_F is the effective available slider return force in work direction β .

The extraction force required E_{FR} is approx. 5% of work force needed (F^*) to cut open profiles and 10% of work force needed to cut closed profiles.

$E_{FR} \neq E_F$

Gas spring force (G_F) is operating in gas spring stroke direction.

The extraction force $E_F \neq G_F$

For **Aerial Cam Units** the gas spring force in work direction (G_{FW}) is calculated with formula:

$G_{FW} = G_F * \cos \alpha$

For **Die Mounted Cam Units** and **Roller Cam** the gas spring force should be considered completely

$G_{FW} = G_F$

NOTE:

If more extraction force is required ($E_{FR} > E_F$), increase E_F using elastic elements or blank holders in front of the slider in order to help the extraction of the punch out the sheet.

D BERECHNUNG DER RÜCKZUGSKRAFT

Die Rückzugskraft E_F ist die effektiv am Schieber verfügbare Rückzugskraft in Arbeitsrichtung β .

Die benötigte Rückzugskraft E_{FR} beträgt ungefähr 5% der notwendigen Arbeitskraft (F^*) zum Stanzen eines offenen Schnittes und bis zu 10% der notwendigen Arbeitskraft zum Stanzen eines geschlossenen Schnittes.

$E_{FR} \neq E_F$

Die Gasdruckfederkraft (G_F) wirkt in die Hubrichtung der Gasdruckfeder.

Die Rückzugskraft $E_F \neq G_F$

Für **oben hängende Schieber** wird die Rückzugskraft der Gasdruckfeder in Arbeitsrichtung (G_{FW}) mit folgender Formel berechnet:

$G_{FW} = G_F * \cos \alpha$

Für **Schieber am WZ Unterteil** und **Rollenschieber** kann die Kraft der Gasdruckfeder komplett berücksichtigt werden:

$G_{FW} = G_F$

ANMERKUNG:

Wird eine höhere Rückzugskraft benötigt ($E_{FR} > E_F$), muss E_F durch den Einsatz von Elastomer- oder Gasdruckfedern auf der Arbeitsfläche, die in Arbeitsrichtung arbeiten, erhöht werden.

I CALCOLO DELLA FORZA D'ESTRAZIONE

La forza di estrazione E_F è la forza effettiva disponibile sulla slitta nella direzione di lavoro β .

La forza di estrazione richiesta E_{FR} è circa il 5% della forza necessaria (F^*) a tagliare un profilo aperto e il 10% della forza necessaria (F^*) a tagliare un profilo chiuso.

$E_{FR} \neq E_F$

La forza della molla a gas (G_F) opera nella direzione di corsa della molla a gas.

La forza di estrazione $E_F \neq G_F$

Per le **Camme Aeree** la forza di estrazione della molla a gas nella direzione di lavoro (G_{FW}) è calcolata con la formula:

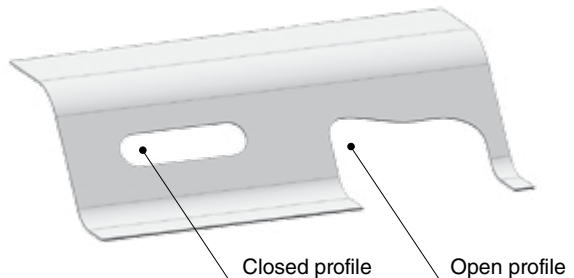
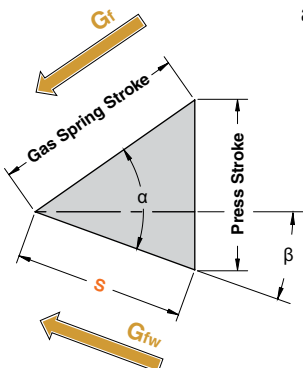
$G_{FW} = G_F * \cos \alpha$

Per le **Camme a Base Stampo** e per le **Camme a Rullo** la forza della molla a gas può essere considerata completamente

$G_{FW} = G_F$

NOTE:

Se è necessaria una maggiore forza di estrazione ($E_{FR} > E_F$), incrementare E_F utilizzando elementi elastici o premilamiera davanti alla slitta per facilitare l'estrazione del punzone dalla matrice.



For more technical info see www.omcr.it



**CAM UNITS CHD
SCHIEBER CHD
CAMME CHD**





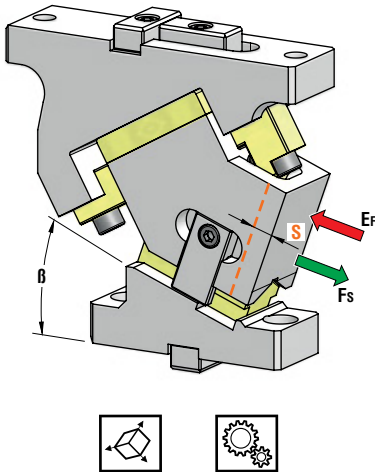
OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)	
						E _F	
	β					Fs	Spring
CHD050	0°÷65° (5° steps)	50	180	50x65	60	1,14÷1,31	1,44÷1,72
CHD065	0°÷65° (5° steps)	65	180	65x65	60	1,14÷1,31	1,44÷1,72
CHD080	0°÷65° (5° steps)	80	275	80x88	149	1,13÷1,37	1,50÷1,85
CHD100	0°÷65° (5° steps)	100	275	100x88	149	1,13÷1,37	1,50÷1,85
CHD150	0°÷65° (5° steps)	150	355	150x120	391	2,29	7,15
CHD180	0°÷65° (5° steps)	180	355	180x120	396	2,29	7,15
CHD200	0°÷65° (5° steps)	200	355	200x120	396	2,29	7,15
CHD250	0°÷65° (5° steps)	250	355	250x160	645	4,58	14,30
CHD300	0°÷65° (5° steps)	300	355	300x160	645	4,58	14,30



High stock availability



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
	β	S	Fs	Spring	Gas Spring
CHD050.00	0°	14,98	60	1,31	1,72
CHD050.05	5°	15,62	60	1,30	1,67
CHD050.10	10°	15,64	60	1,14	1,60
CHD050.15	15°	16,96	60	1,14	1,60
CHD050.20	20°	18,43	60	1,14	1,60
CHD050.25	25°	18	60	1,29	1,53
CHD050.30	30°	17,36	60	1,17	1,47
CHD050.35	35°	18,87	60	1,17	1,47
CHD050.40	40°	20,57	60	1,17	1,47
CHD050.45	45°	22,54	60	1,17	1,47
CHD050.50	50°	23,34	60	1,17	1,44
CHD050.55	55°	26,05	60	1,17	1,44
CHD050.60	60°	31,51	60	1,17	1,47
CHD050.65	65°	36,57	60	1,17	1,47

OPTION CODE

SL	1 ÷ 60 (1mm steps)
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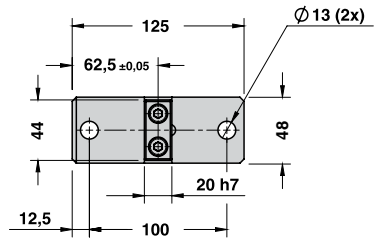
*Return Type: G = Gas Spring / S = Spring

					OPTION CODE
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°	Return Type*	SL
		CHD050	05	G	SL55

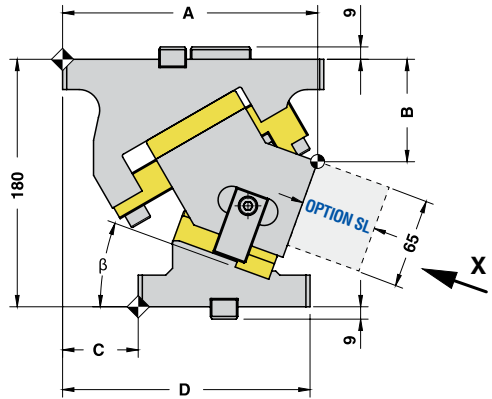
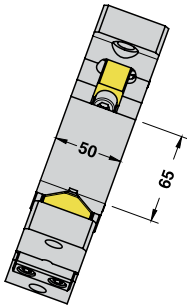
OMCR CODE	Work Angle	Overall Dimensions (mm)			
		β	A	B	C
CHD050.00	0°	185	67,50	80	205
CHD050.05	5°	188,04	68,29	75	200
CHD050.10	10°	185,99	69,77	65	190
CHD050.15	15°	188,77	71,95	65	190
CHD050.20	20°	186,34	74,79	55	180
CHD050.25	25°	181,62	80,28	41	166
CHD050.30	30°	180,58	85,39	40	165
CHD050.35	35°	177,15	90,10	25	150
CHD050.40	40°	173,29	95,35	22,5	147,5
CHD050.45	45°	169,94	98,13	10	135
CHD050.50	50°	164,07	99,37	5	130
CHD050.55	55°	158,64	111,04	-15	110
CHD050.60	60°	152,61	118,08	-25	100
CHD050.65	65°	145,95	125,44	-35	90



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

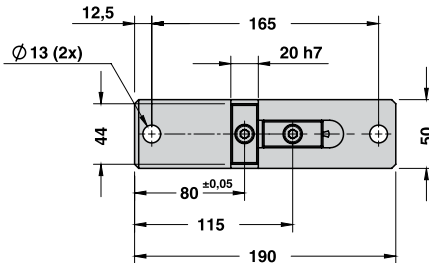
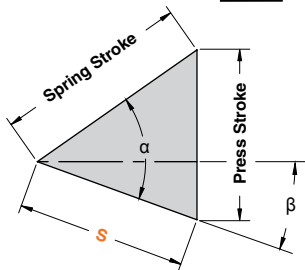


X VIEW



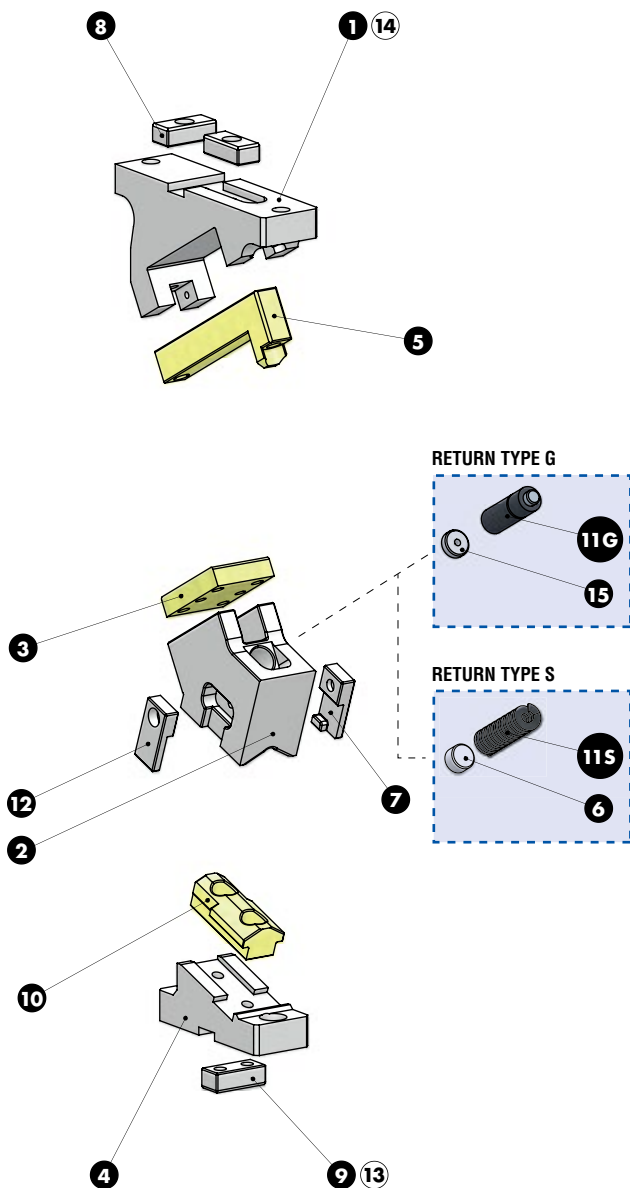
Cam Units CHD

CAM DIAGRAM





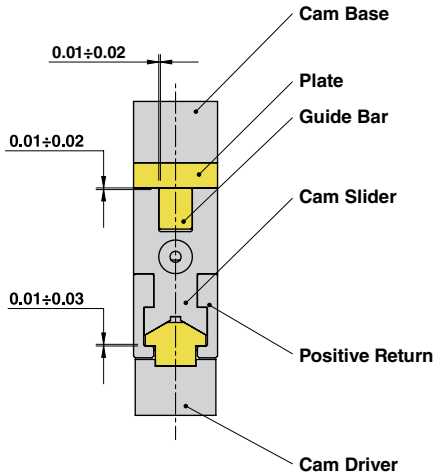
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

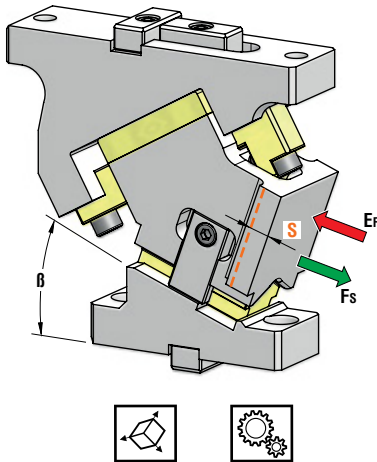


Cam Units CHD

Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Cam Slider	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	CK45	1
5	Guide Bar	CuZn25Al5 + Graphite - HB > 190	1
6	Spring Spacer	CK45	1
7	Positive Return R	42CrMo4 Nitrided	1
8	Key	CK45	2
9	Key	CK45	1
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11G	Gas Spring - Return Type G	-	1
11S	Spring - Return Type S	-	1
12	Positive Return L	42CrMo4 Nitrided	1
13	Cam Driver Fixing Screws M12x35 DIN 912	-	2
14	Cam Base Fixing Screws M12x45 DIN 912	-	2
15	Gas Spring Spacer	CK45	1



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
	β	S	F _s	Spring	Gas Spring
CHD065.00	0°	14,98	60	1,31	1,72
CHD065.05	5°	15,62	60	1,30	1,67
CHD065.10	10°	15,64	60	1,14	1,60
CHD065.15	15°	16,96	60	1,14	1,60
CHD065.20	20°	18,43	60	1,14	1,60
CHD065.25	25°	18	60	1,29	1,53
CHD065.30	30°	17,36	60	1,17	1,47
CHD065.35	35°	18,87	60	1,17	1,47
CHD065.40	40°	20,57	60	1,17	1,47
CHD065.45	45°	22,54	60	1,17	1,47
CHD065.50	50°	23,34	60	1,17	1,44
CHD065.55	55°	26,05	60	1,17	1,44
CHD065.60	60°	31,51	60	1,17	1,47
CHD065.65	65°	36,57	60	1,17	1,47

OPTION CODE

SL	1 ÷ 60 (1mm steps)
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*Return Type: G = Gas Spring / S = Spring

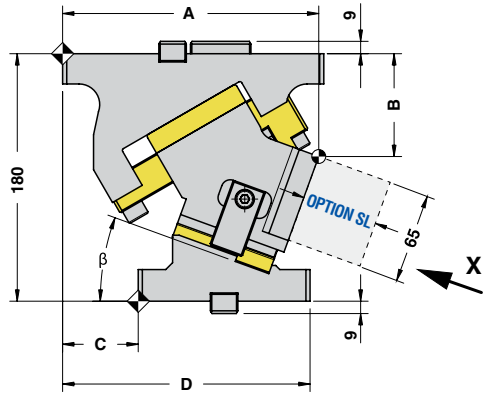
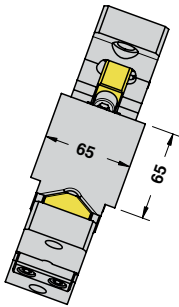
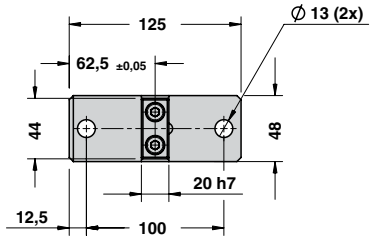
					OPTION CODE
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°	Return Type*	SL
		CHD065	05	G	SL55

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		B	A	C	D
CHD065.00	0°	185	67,50	80	205
CHD065.05	5°	188,04	68,29	75	200
CHD065.10	10°	185,99	69,77	65	190
CHD065.15	15°	188,77	71,95	65	190
CHD065.20	20°	186,34	74,79	55	180
CHD065.25	25°	181,62	80,28	41	166
CHD065.30	30°	180,58	85,39	40	165
CHD065.35	35°	177,15	90,10	25	150
CHD065.40	40°	173,29	95,35	22,5	147,5
CHD065.45	45°	169,94	98,13	10	135
CHD065.50	50°	164,07	99,37	5	130
CHD065.55	55°	158,64	111,04	-15	110
CHD065.60	60°	152,61	118,08	-25	100
CHD065.65	65°	145,95	125,44	-35	90

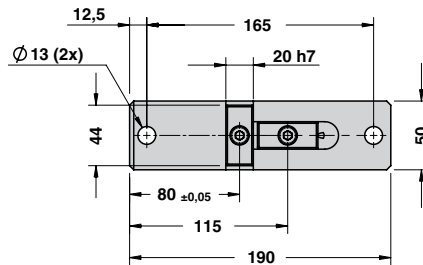
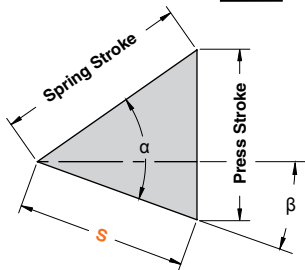


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

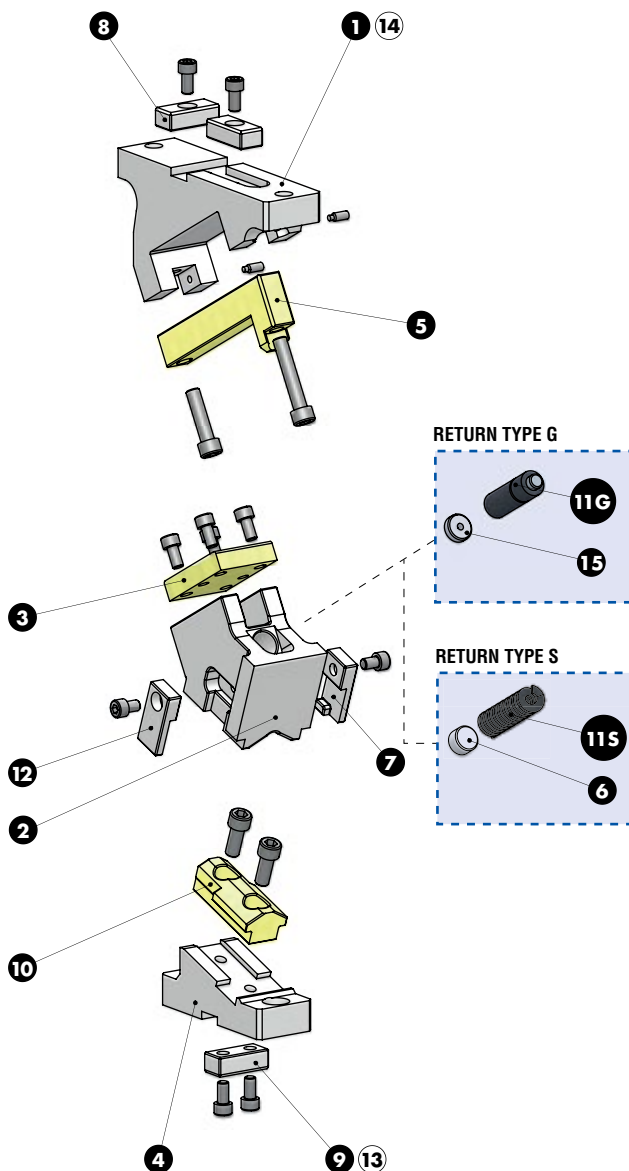


CAM DIAGRAM





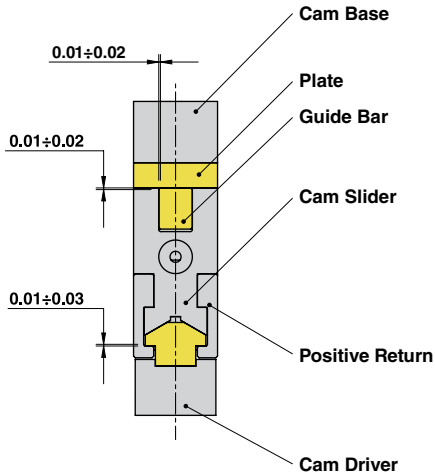
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

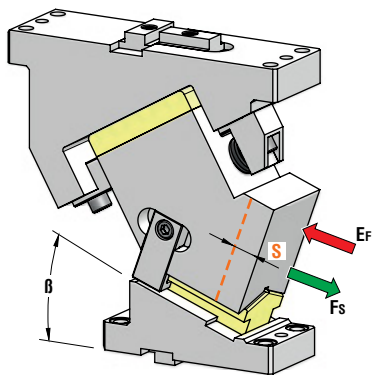


Cam Units CHD

Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Cam Slider	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	CK45	1
5	Guide Bar	CuZn25Al5 + Graphite - HB > 190	1
6	Spring Spacer	CK45	1
7	Positive Return R	42CrMo4 Nitrided	1
8	Key	CK45	2
9	Key	CK45	1
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11G	Gas Spring - Return Type G	-	1
11S	Spring - Return Type S	-	1
12	Positive Return L	42CrMo4 Nitrided	1
13	Cam Driver Fixing Screws M12x35 DIN 912	-	2
14	Cam Base Fixing Screws M12x45 DIN 912	-	2
15	Gas Spring Spacer	CK45	1



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
CHD080.00	0°	30,21	149	1,37	1,85
CHD080.05	5°	30,52	149	1,37	1,76
CHD080.10	10°	31,11	149	1,37	1,69
CHD080.15	15°	33,92	149	1,37	1,69
CHD080.20	20°	32,26	149	1,25	1,59
CHD080.25	25°	35	149	1,25	1,59
CHD080.30	30°	34,72	149	1,25	1,54
CHD080.35	35°	37,73	149	1,25	1,54
CHD080.40	40°	39,85	149	1,25	1,52
CHD080.45	45°	43,67	149	1,25	1,52
CHD080.50	50°	46,67	149	1,13	1,50
CHD080.55	55°	53,84	149	1,25	1,52
CHD080.60	60°	61,06	149	1,25	1,52
CHD080.65	65°	70,85	149	1,25	1,52

OPTION CODE

SL	1 ÷ 60 (1mm steps)
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*Return Type: G = Gas Spring / S = Spring

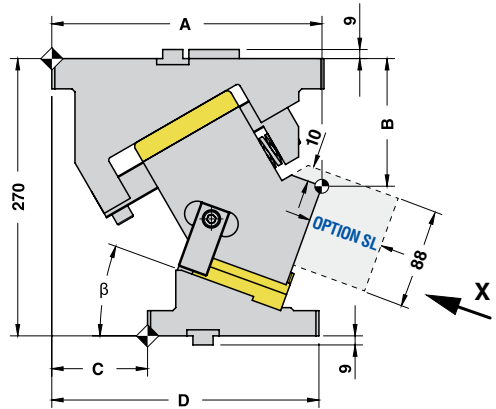
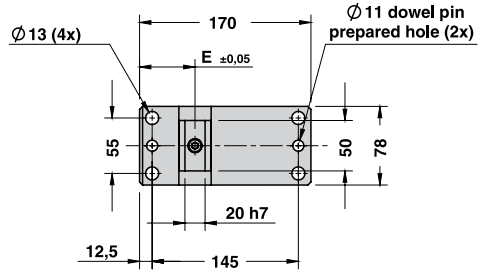
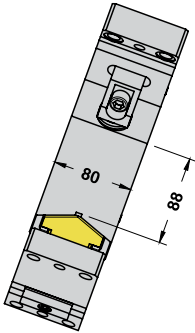
		OPTION CODE			
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°	Return Type*	SL
		CHD080	05	G	SL55

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHD080.00	0°		277	110	135	305	65
CHD080.05	5°		278,32	115,67	125	295	65
CHD080.10	10°		274,54	117,32	110	280	65
CHD080.15	15°		277,58	119,95	105	275	55
CHD080.20	20°		273,34	123,52	95	265	55
CHD080.25	25°		268,75	128,03	80	250	55
CHD080.30	30°		261,73	133,42	65	235	60
CHD080.35	35°		258,20	139,66	55	225	60
CHD080.40	40°		245,09	146,70	35	205	50
CHD080.45	45°		245,34	154,49	30	200	50
CHD080.50	50°		225,87	162,97	5	175	50
CHD080.55	55°		229,64	172,07	0	170	60
CHD080.60	60°		208,58	181,73	-20	150	50
CHD080.65	65°		203,67	191,87	-30	140	50

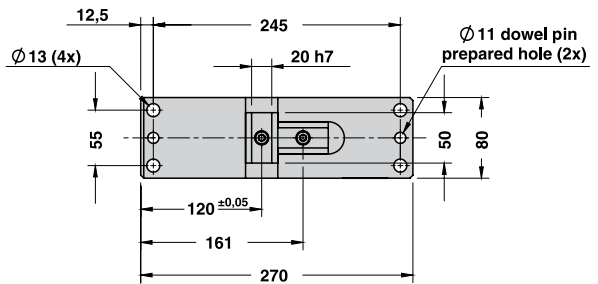
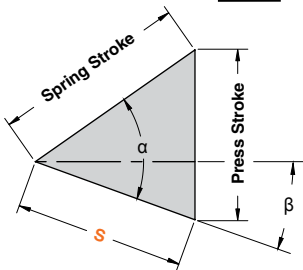


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

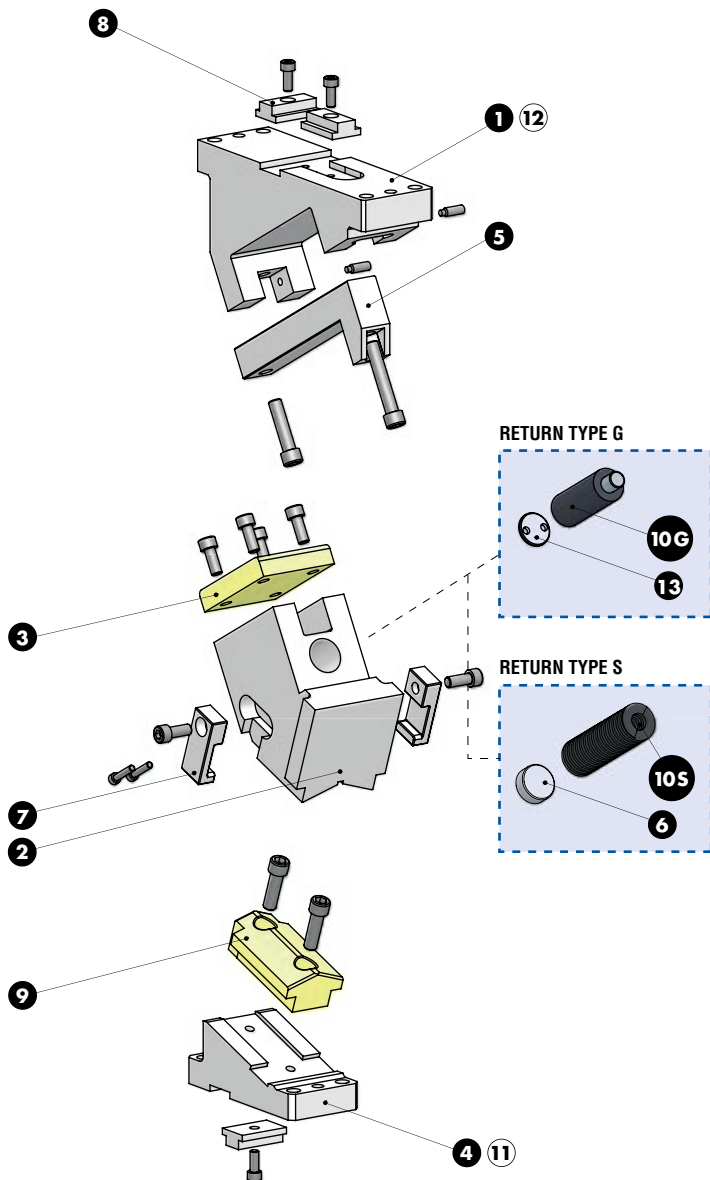


CAM DIAGRAM





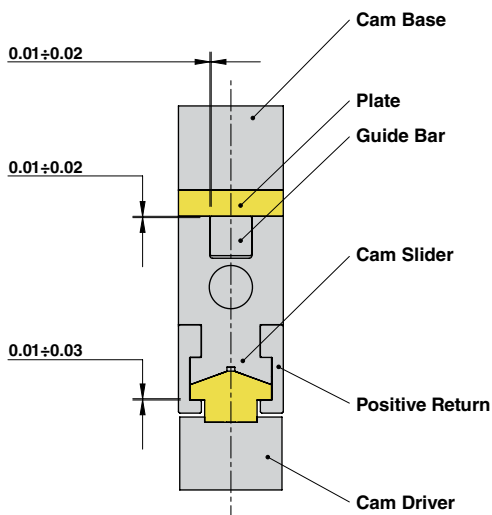
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

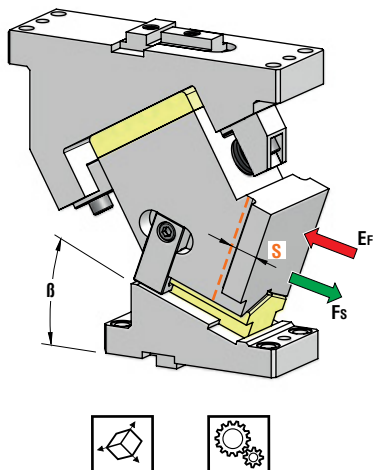


Cam Units CHD

Particular number	Description	Material	Quantity
1	Cam Base	GG-30	1
2	Cam Slider	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	GG-30	1
5	Guide Bar	CK45 + Graphite	1
6	Spring Spacer	CK45	1
7	Positive Return	42CrMo4 Nitrided	2
8	Key	CK45	3
9	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
10G	Gas Spring - Return Type G	-	1
10S	Spring - Return Type S	-	1
11	Cam Driver Fixing Screws M12x50 DIN 912	-	4
12	Cam Base Fixing Screws M12x55 DIN 912	-	4
13	Gas Spring Spacer	CK45	1



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
CHD100.00	0°	30,21	149	1,37	1,85
CHD100.05	5°	30,52	149	1,37	1,76
CHD100.10	10°	31,11	149	1,37	1,69
CHD100.15	15°	33,92	149	1,37	1,69
CHD100.20	20°	32,26	149	1,25	1,59
CHD100.25	25°	35	149	1,25	1,59
CHD100.30	30°	34,72	149	1,25	1,54
CHD100.35	35°	37,73	149	1,25	1,54
CHD100.40	40°	39,85	149	1,25	1,52
CHD100.45	45°	43,67	149	1,25	1,52
CHD100.50	50°	46,67	149	1,13	1,50
CHD100.55	55°	53,84	149	1,25	1,52
CHD100.60	60°	61,06	149	1,25	1,52
CHD100.65	65°	70,85	149	1,25	1,52

OPTION CODE

SL 1 ÷ 60 (1mm steps)

*Return Type: G = Gas Spring / S = Spring

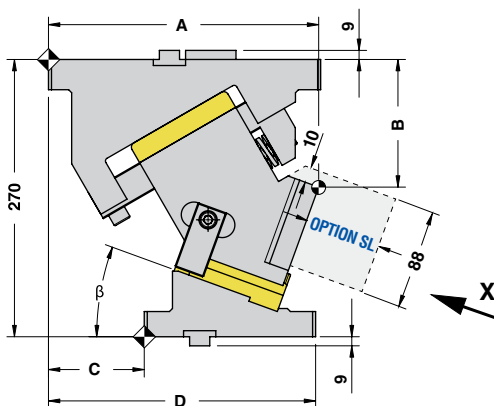
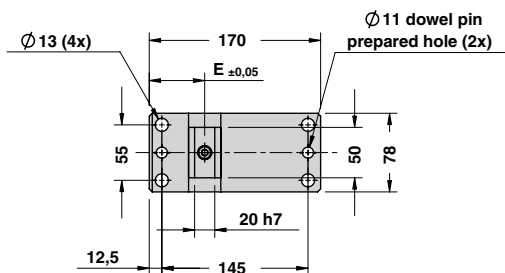
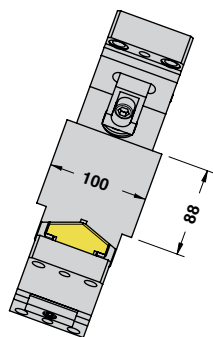
STOCK	ORDER EXAMPLE	OPTION CODE			
		Art.	Work Angle = 5°	Return Type*	SL
		CHD100	05	G	SL55

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHD100.00	0°		277	110	135	305	65
CHD100.05	5°		278,32	115,67	125	295	65
CHD100.10	10°		274,54	117,32	110	280	65
CHD100.15	15°		277,58	119,95	105	275	55
CHD100.20	20°		273,34	123,52	95	265	55
CHD100.25	25°		268,75	128,03	80	250	55
CHD100.30	30°		261,73	133,42	65	235	60
CHD100.35	35°		258,20	139,66	55	225	60
CHD100.40	40°		245,09	146,70	35	205	50
CHD100.45	45°		245,34	154,49	30	200	50
CHD100.50	50°		225,87	162,97	5	175	50
CHD100.55	55°		229,64	172,07	0	170	60
CHD100.60	60°		208,58	181,73	-20	150	50
CHD100.65	65°		203,67	191,87	-30	140	50

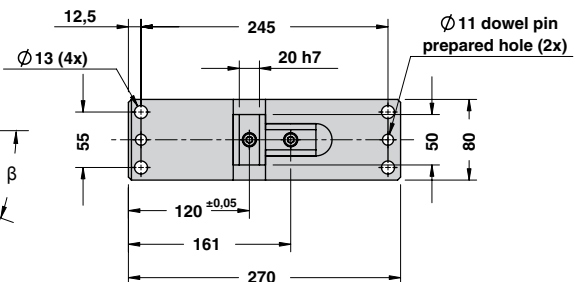
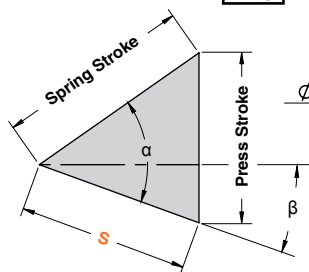


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

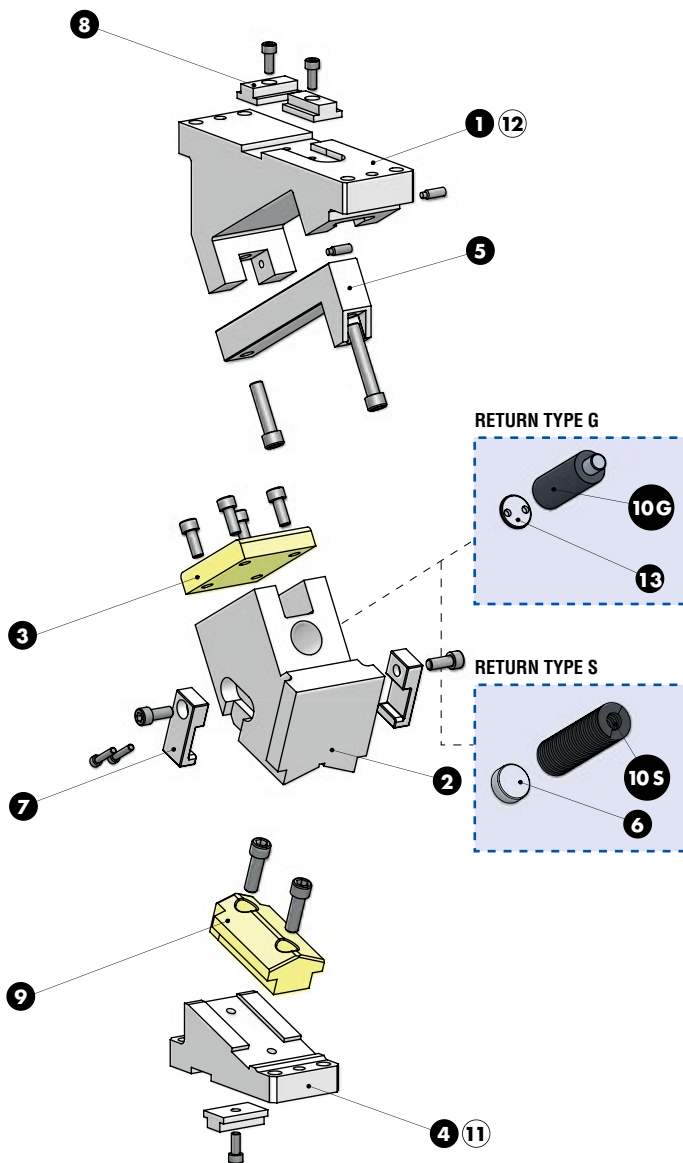


CAM DIAGRAM





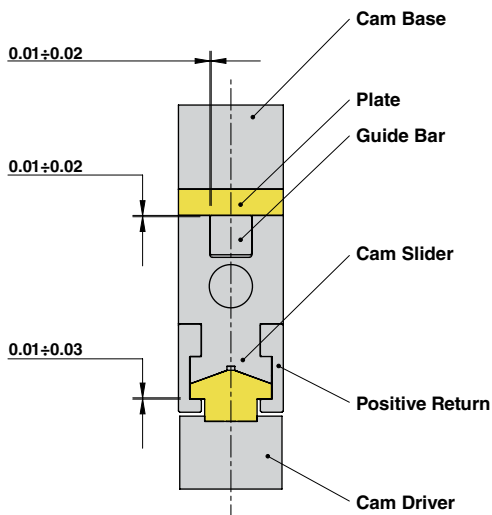
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

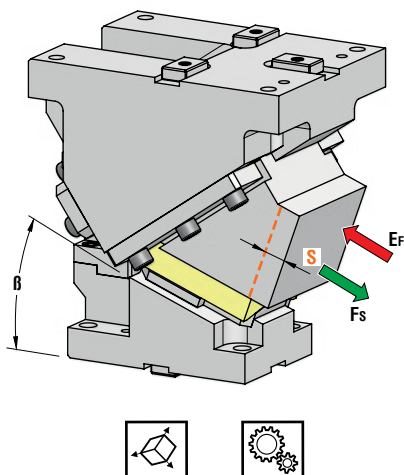


Cam Units CHD

Particular number	Description	Material	Quantity
1	Cam Base	GG-30	1
2	Cam Slider	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	GG-30	1
5	Guide Bar	CK45 + Graphite	1
6	Spring Spacer	CK45	1
7	Positive Return	42CrMo4 Nitrided	2
8	Key	CK45	3
9	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
10G	Gas Spring - Return Type G	-	1
10S	Spring - Return Type S	-	1
11	Cam Driver Fixing Screws M12x50 DIN 912	-	4
12	Cam Base Fixing Screws M12x55 DIN 912	-	4
13	Gas Spring Spacer	CK45	1



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
	β	S	F _s	Spring	Gas Spring
CHD150.00	0°	28,68	391	2,29	7,15
CHD150.05	5°	32,26	391	2,29	7,15
CHD150.10	10°	35,90	391	2,29	7,15
CHD150.15	15°	39,65	391	2,29	7,15
CHD150.20	20°	43,59	391	2,29	7,15
CHD150.25	25°	47,78	391	2,29	7,15
CHD150.30	30°	52,33	391	2,29	7,15
CHD150.35	35°	57,36	391	2,29	7,15
CHD150.40	40°	63,05	391	2,29	7,15
CHD150.45	45°	69,64	391	2,29	7,15
CHD150.50	50°	77,49	391	2,29	7,15
CHD150.55	55°	87,17	391	2,29	7,15
CHD150.60	60°	99,62	391	2,29	7,15
CHD150.65	65°	116,51	391	2,29	7,15

*Return Type: G = Gas Spring / S = Spring



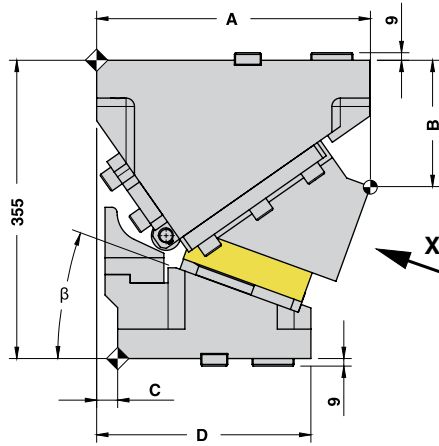
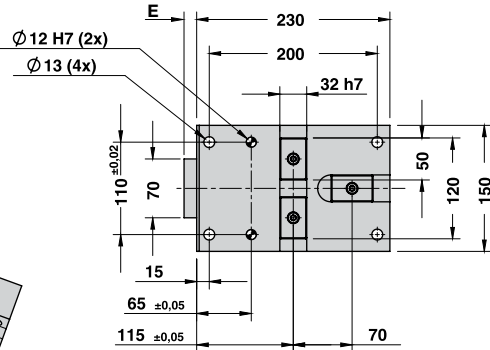
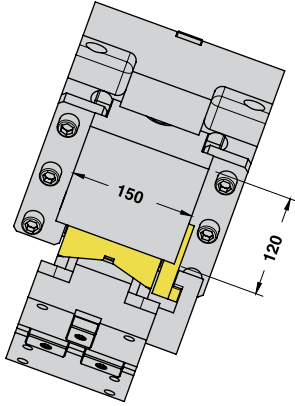
Art.	Work Angle = 5°	Return Type*
CHD150	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		B	A	B	C	D	E
CHD150.00	0°		325	130	80	310	25
CHD150.05	5°		319,70	133,26	60	290	25
CHD150.10	10°		319,06	137,79	45	275	25
CHD150.15	15°		322,98	143,56	35	265	20
CHD150.20	20°		326,33	150,51	25	255	15
CHD150.25	25°		329,03	158,61	15	245	10
CHD150.30	30°		325,98	167,78	0	230	0
CHD150.35	35°		322,08	192,95	-15	215	0
CHD150.40	40°		312,26	204,06	-35	195	0
CHD150.45	45°		306,42	216,01	-50	180	0
CHD150.50	50°		294,51	228,71	-70	160	0
CHD150.55	55°		281,46	242,07	-90	140	0
CHD150.60	60°		272,22	255,98	-105	125	0
CHD150.65	65°		261,75	270,34	-120	110	0

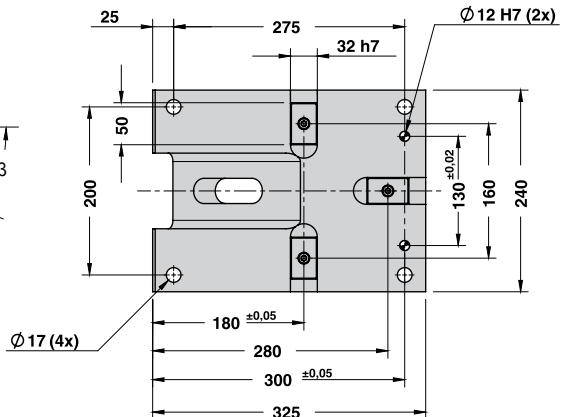
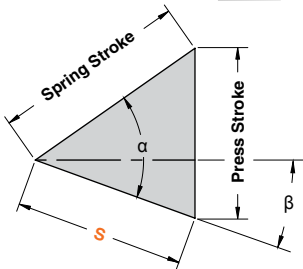


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

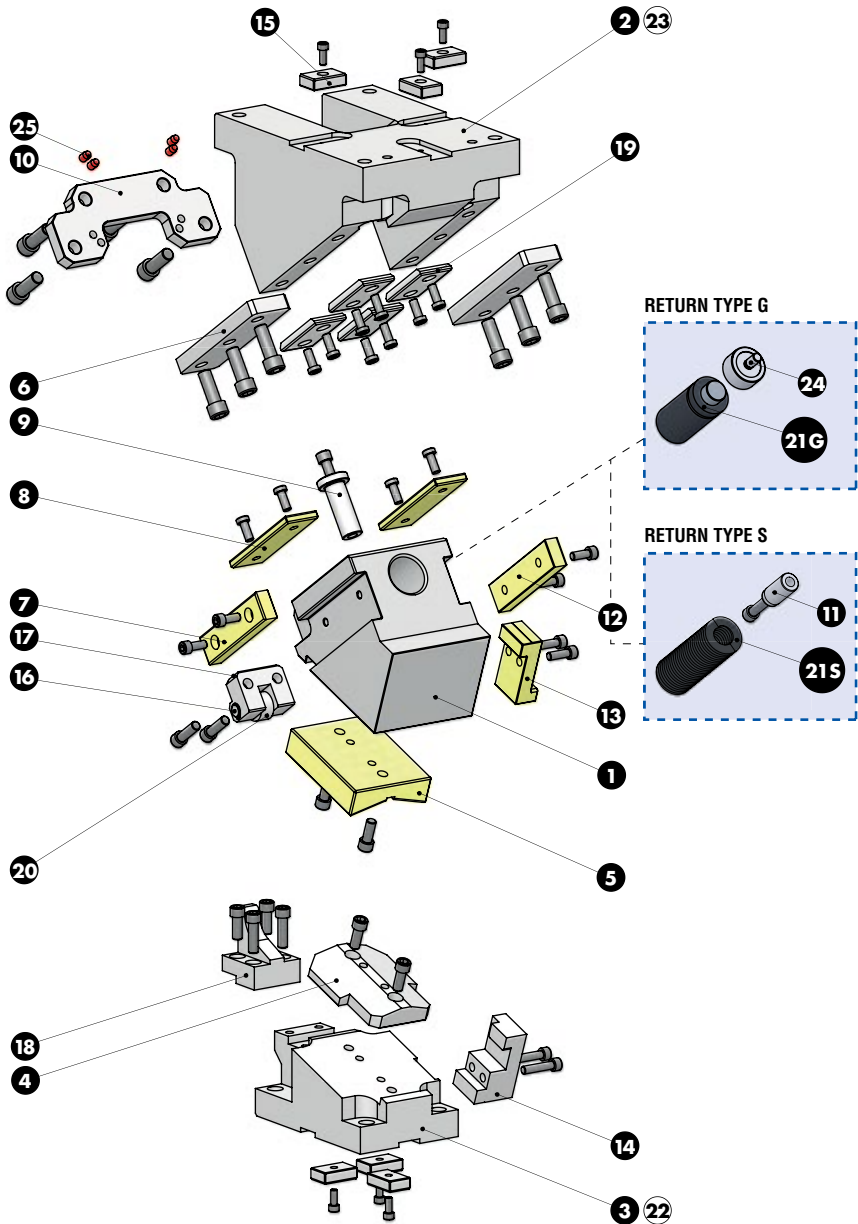


CAM DIAGRAM





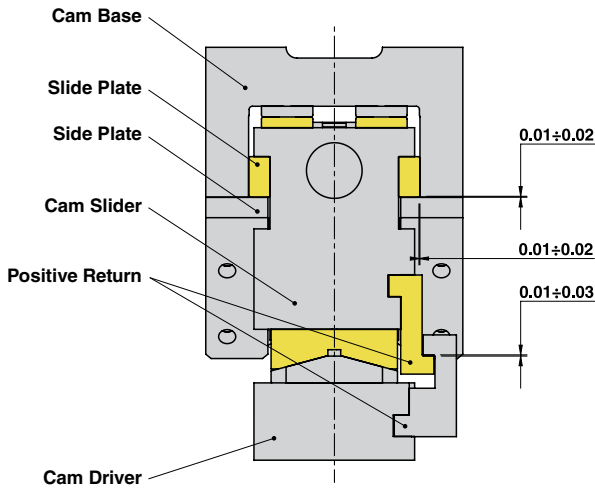
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

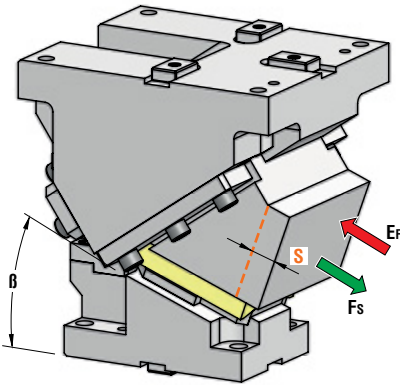
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Base	GG-30	1
3	Cam Driver	GG-30	1
4	Male "V" Driver	CK45	1
5	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate	CK45	2
7	Slide Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Safety Pin	CK45	1
10	Stopper Plate	St 52	1
11	Spring Guide Pin	CK45	1
12	Slide Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Positive Return	CuZn25Al5 - HB > 190	1
14	Positive Return	42CrMo4 Nitrided	1
15	Key	CK45	6
16	Shaft	CK45	1
17	Roller Bracket	CK45	1
18	Accelerator	CK45	1
19	Wear Plate	CK45	4
20	Roller	NATR15PP	1
21G	Gas Spring - Return Type G	-	1
21S	Spring - Return Type S	-	1
22	Cam Driver Fixing Screws M12x50 DIN 912	-	4
23	Cam Base Fixing Screws M16x70 DIN 912	-	4
24	Gas Spring Spacer	CK45	1
25	Elastomer Cap	Elastomer 92SH	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN) Ef	
				Spring	Gas Spring
CHD180.00	0°	28,68	396	2,29	7,15
CHD180.05	5°	32,26	396	2,29	7,15
CHD180.10	10°	35,90	396	2,29	7,15
CHD180.15	15°	39,65	396	2,29	7,15
CHD180.20	20°	43,59	396	2,29	7,15
CHD180.25	25°	47,78	396	2,29	7,15
CHD180.30	30°	52,33	396	2,29	7,15
CHD180.35	35°	57,36	396	2,29	7,15
CHD180.40	40°	63,05	396	2,29	7,15
CHD180.45	45°	69,64	396	2,29	7,15
CHD180.50	50°	77,49	396	2,29	7,15
CHD180.55	55°	87,17	396	2,29	7,15
CHD180.60	60°	99,62	396	2,29	7,15
CHD180.65	65°	116,51	396	2,29	7,15

*Return Type: G = Gas Spring / S = Spring



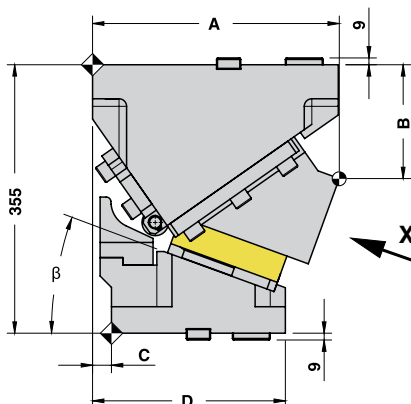
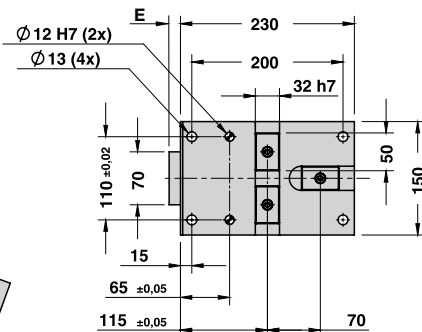
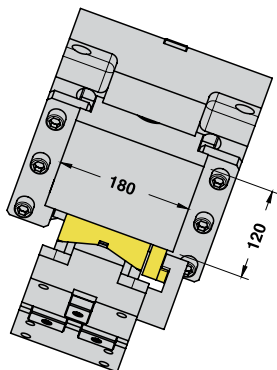
Art.	Work Angle = 5°	Return Type*
CHD180	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHD180.00	0°		325	130	80	310	25
CHD180.05	5°		319,70	133,26	60	290	25
CHD180.10	10°		319,06	137,79	45	275	25
CHD180.15	15°		322,98	143,56	35	265	20
CHD180.20	20°		326,33	150,51	25	255	15
CHD180.25	25°		329,03	158,61	15	245	10
CHD180.30	30°		325,98	167,78	0	230	0
CHD180.35	35°		322,08	192,95	-15	215	0
CHD180.40	40°		312,26	204,06	-35	195	0
CHD180.45	45°		306,42	216,01	-50	180	0
CHD180.50	50°		294,51	228,71	-70	160	0
CHD180.55	55°		281,46	242,07	-90	140	0
CHD180.60	60°		272,22	255,98	-105	125	0
CHD180.65	65°		261,75	270,34	-120	110	0

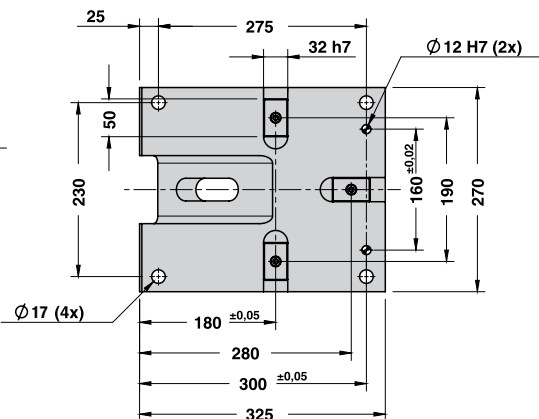
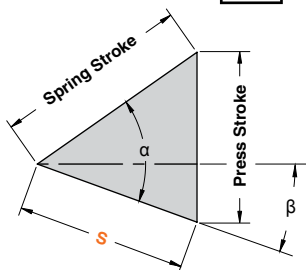


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

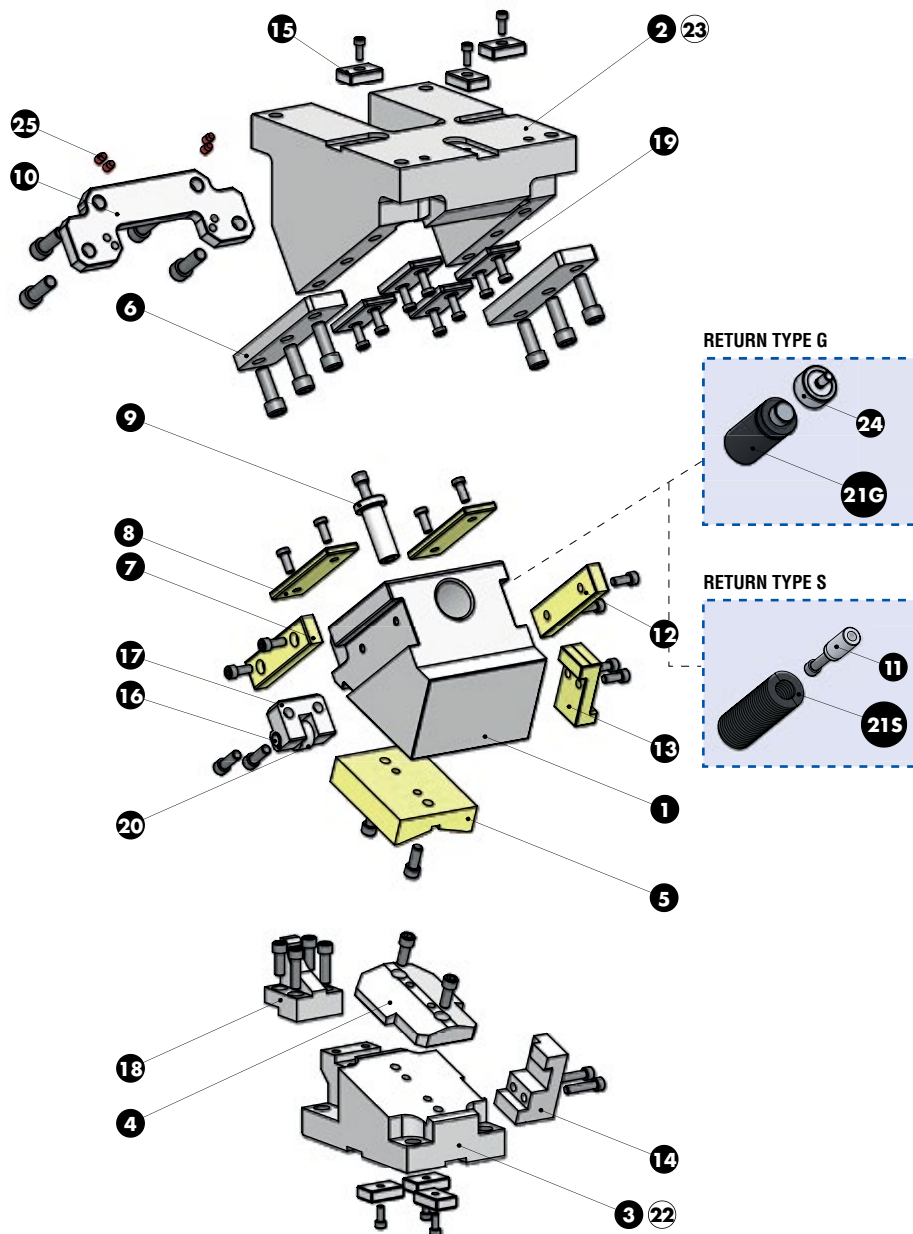


CAM DIAGRAM





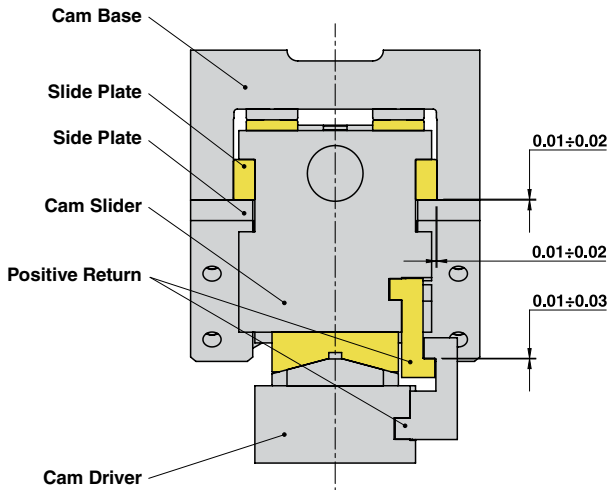
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

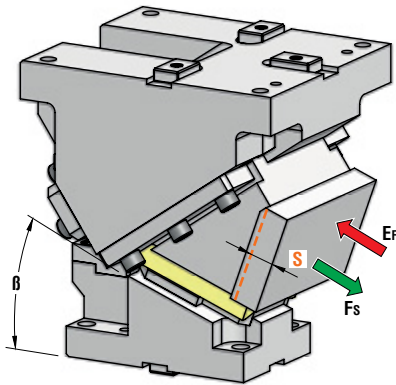
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Base	GG-30	1
3	Cam Driver	GG-30	1
4	Male "V" Driver	CK45	1
5	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate	CK45	2
7	Slide Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Safety Pin	CK45	1
10	Stopper Plate	St 52	1
11	Spring Guide Pin	CK45	1
12	Slide Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Positive Return	CuZn25Al5 - HB > 190	1
14	Positive Return	42CrMo4 Nitrided	1
15	Key	CK45	6
16	Shaft	CK45	1
17	Roller Bracket	CK45	1
18	Accelerator	CK45	1
19	Wear Plate	CK45	4
20	Roller	NATR15PP	1
21G	Gas Spring - Return Type G	-	1
21S	Spring - Return Type S	-	1
22	Cam Driver Fixing Screws M12x50 DIN 912	-	4
23	Cam Base Fixing Screws M16x70 DIN 912	-	4
24	Gas Spring Spacer	CK45	1
25	Elastomer Cap	Elastomer 92SH	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN) Ef	
				Spring	Gas Spring
CHD200.00	0°	28,68	396	2,29	7,15
CHD200.05	5°	32,26	396	2,29	7,15
CHD200.10	10°	35,90	396	2,29	7,15
CHD200.15	15°	39,65	396	2,29	7,15
CHD200.20	20°	43,59	396	2,29	7,15
CHD200.25	25°	47,78	396	2,29	7,15
CHD200.30	30°	52,33	396	2,29	7,15
CHD200.35	35°	57,36	396	2,29	7,15
CHD200.40	40°	63,05	396	2,29	7,15
CHD200.45	45°	69,64	396	2,29	7,15
CHD200.50	50°	77,49	396	2,29	7,15
CHD200.55	55°	87,17	396	2,29	7,15
CHD200.60	60°	99,62	396	2,29	7,15
CHD200.65	65°	116,51	396	2,29	7,15

*Return Type: G = Gas Spring / S = Spring



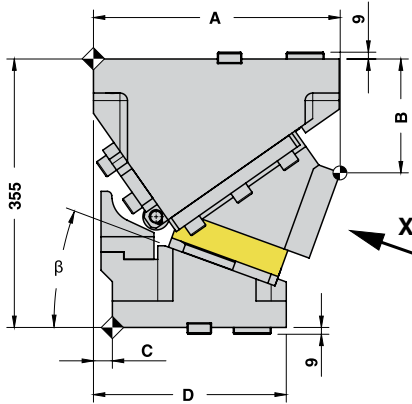
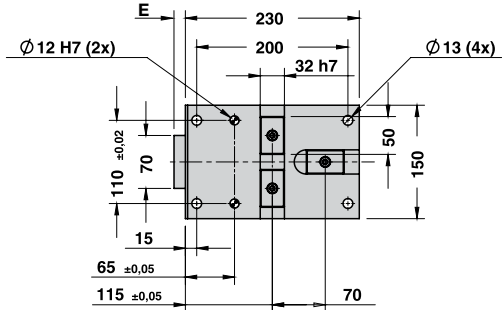
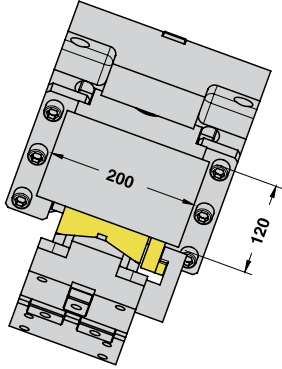
Art.	Work Angle = 5°	Return Type*
CHD200	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHD200.00	0°		325	130	80	310	25
CHD200.05	5°		319,70	133,26	60	290	25
CHD200.10	10°		319,06	137,79	45	275	25
CHD200.15	15°		322,98	143,56	35	265	20
CHD200.20	20°		326,33	150,51	25	255	15
CHD200.25	25°		329,03	158,61	15	245	10
CHD200.30	30°		325,98	167,78	0	230	0
CHD200.35	35°		322,08	192,95	-15	215	0
CHD200.40	40°		312,26	204,06	-35	195	0
CHD200.45	45°		306,42	216,01	-50	180	0
CHD200.50	50°		294,51	228,71	-70	160	0
CHD200.55	55°		281,46	242,07	-90	140	0
CHD200.60	60°		272,22	255,98	-105	125	0
CHD200.65	65°		261,75	270,34	-120	110	0

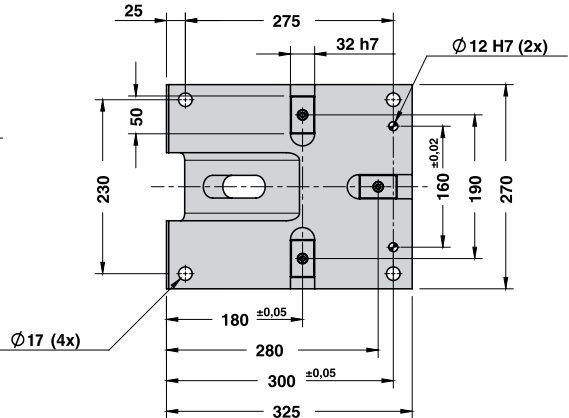
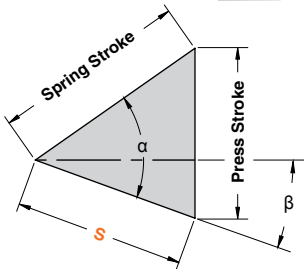


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

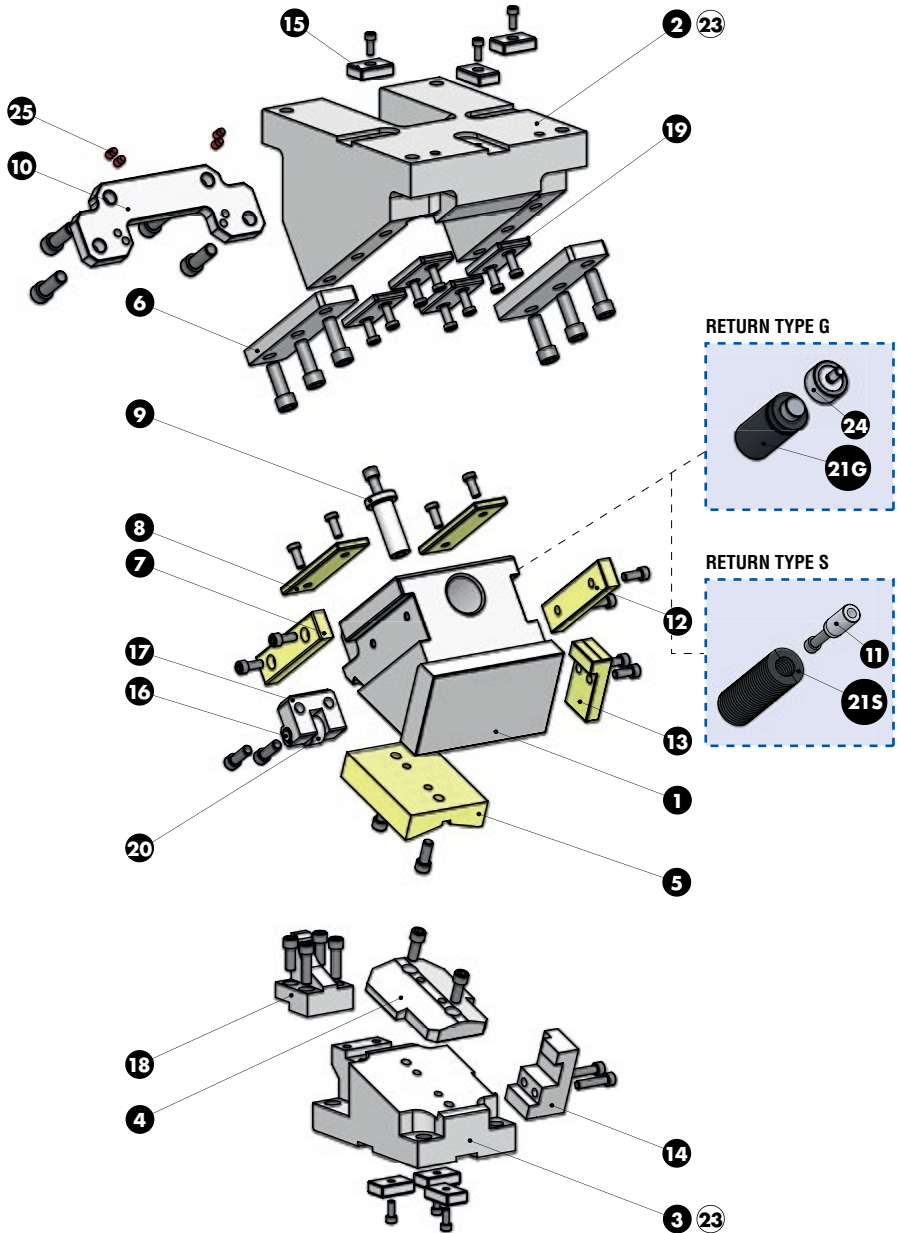


CAM DIAGRAM





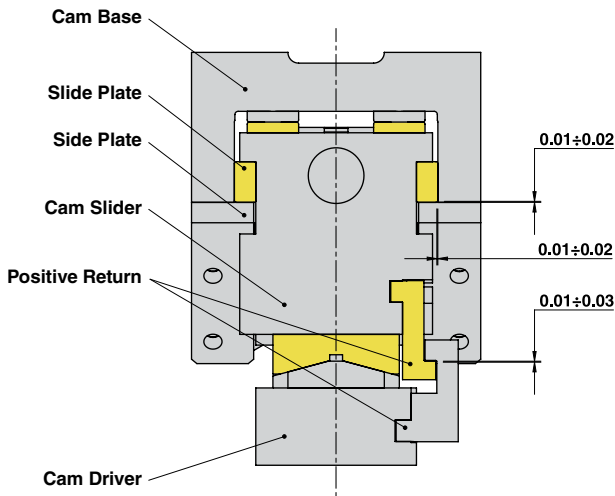
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

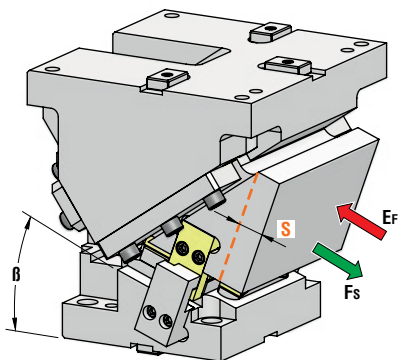
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Base	GG-30	1
3	Cam Driver	GG-30	1
4	Male "V" Driver	CK45	1
5	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate	CK45	2
7	Slide Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Safety Pin	CK45	1
10	Stopper Plate	St 52	1
11	Spring Guide Pin	CK45	1
12	Slide Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Positive Return	CuZn25Al5 - HB > 190	1
14	Positive Return	42CrMo4 Nitrided	1
15	Key	CK45	6
16	Shaft	CK45	1
17	Roller Bracket	CK45	1
18	Accelerator	CK45	1
19	Wear Plate	CK45	4
20	Roller	NATR15PP	1
21G	Gas Spring - Return Type G	-	1
21S	Spring - Return Type S	-	1
22	Cam Driver Fixing Screws M12x50 DIN 912	-	4
23	Cam Base Fixing Screws M16x70 DIN 912	-	4
24	Gas Spring Spacer	CK45	1
25	Elastomer Cap	Elastomer 92SH	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) F_s	Extraction Force (kN) E_f	
				Spring	Gas Spring
CHD250.00	0°	28,68	645	4,58	14,30
CHD250.05	5°	32,26	645	4,58	14,30
CHD250.10	10°	35,90	645	4,58	14,30
CHD250.15	15°	39,65	645	4,58	14,30
CHD250.20	20°	43,59	645	4,58	14,30
CHD250.25	25°	47,78	645	4,58	14,30
CHD250.30	30°	52,33	645	4,58	14,30
CHD250.35	35°	57,36	645	4,58	14,30
CHD250.40	40°	63,05	645	4,58	14,30
CHD250.45	45°	69,64	645	4,58	14,30
CHD250.50	50°	77,49	645	4,58	14,30
CHD250.55	55°	87,17	645	4,58	14,30
CHD250.60	60°	99,62	645	4,58	14,30
CHD250.65	65°	116,51	645	4,58	14,30

*Return Type: G = Gas Spring / S = Spring



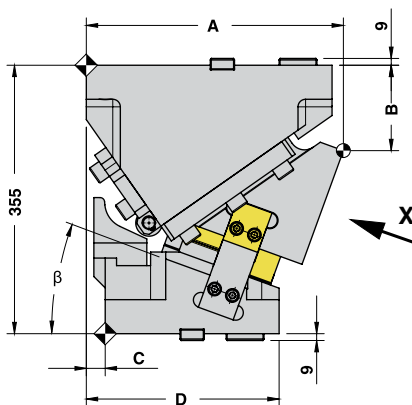
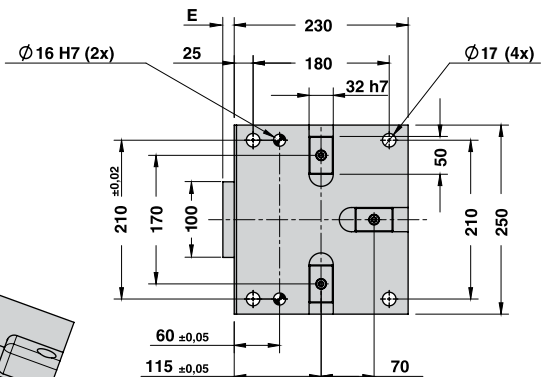
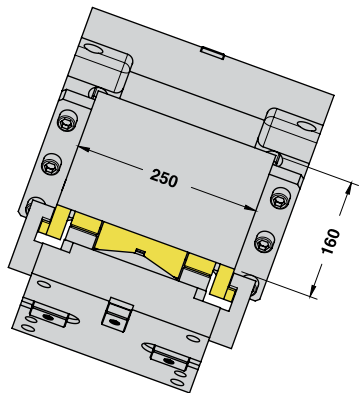
Art.	Work Angle = 5°	Return Type*
CHD250	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHD250.00	0°		325	90	80	310	25
CHD250.05	5°		323,19	93,41	60	290	25
CHD250.10	10°		326,01	98,40	45	275	25
CHD250.15	15°		333,33	104,92	35	265	20
CHD250.20	20°		340,02	112,93	25	255	15
CHD250.25	25°		345,94	122,35	15	245	10
CHD250.30	30°		345,98	133,14	0	230	0
CHD250.35	35°		345,03	160,19	-15	215	0
CHD250.40	40°		337,97	173,42	-35	195	0
CHD250.45	45°		334,71	187,72	-50	180	0
CHD250.50	50°		325,15	202,99	-70	160	0
CHD250.55	55°		314,23	219,12	-90	140	0
CHD250.60	60°		306,86	235,98	-105	125	0
CHD250.65	65°		298	253,44	-120	110	0

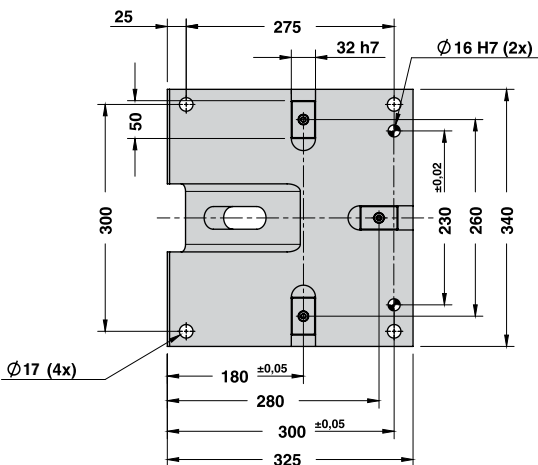
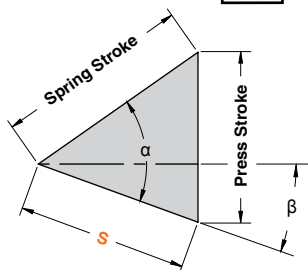


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

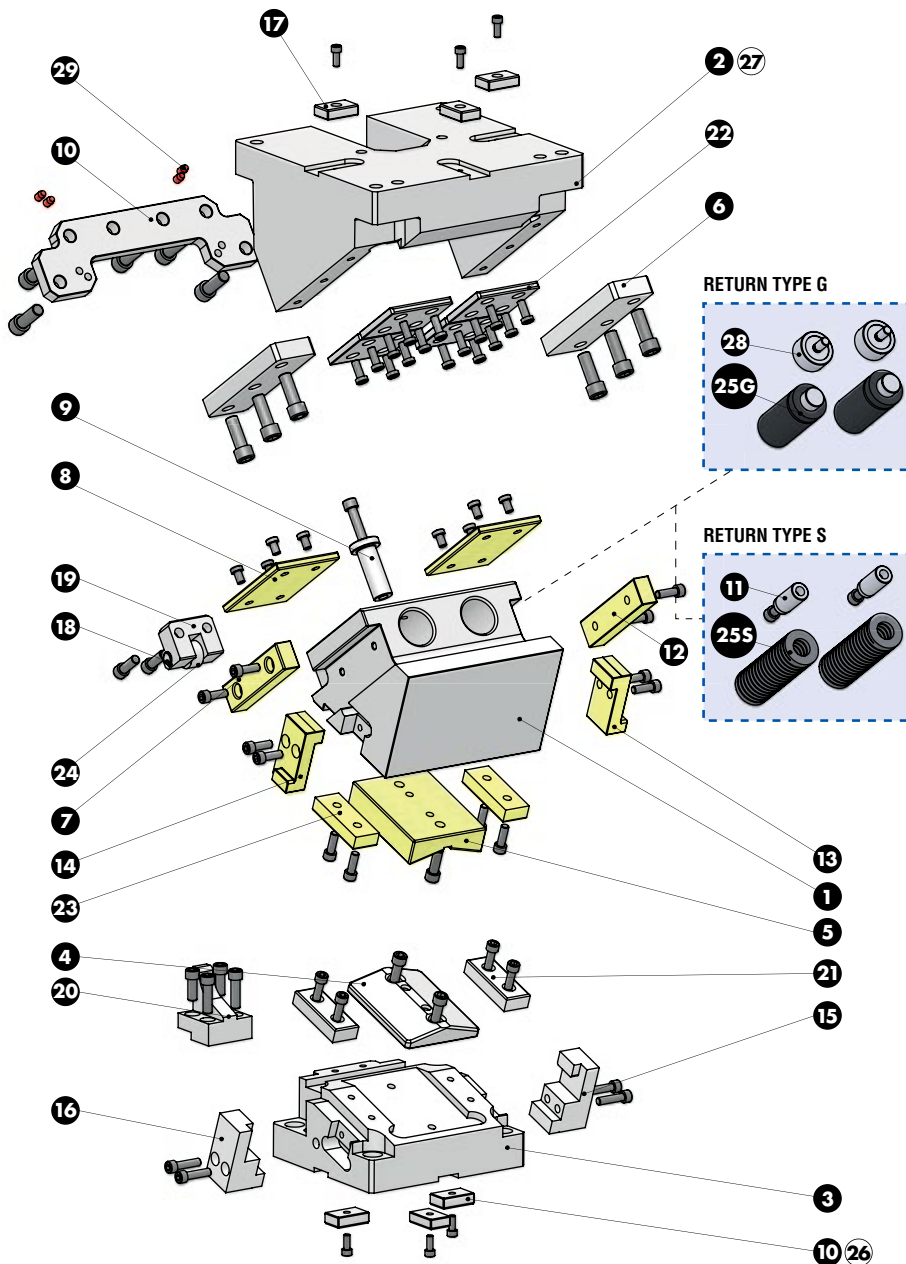


CAM DIAGRAM





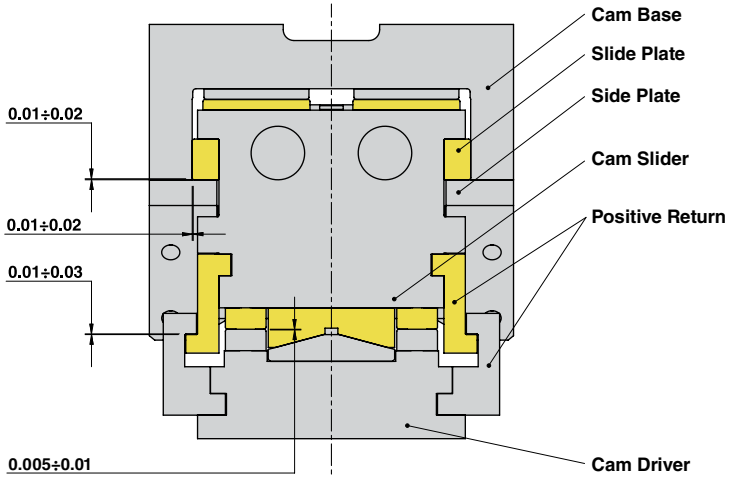
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

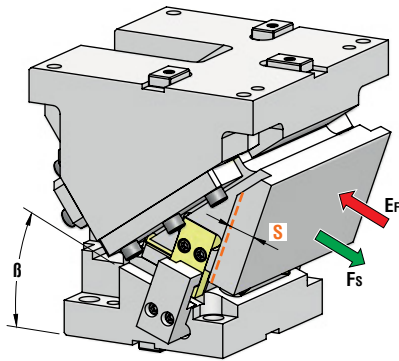
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Base	GG-30	1
3	Cam Driver	GG-30	1
4	Male "V" Driver	CK45	1
5	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate	CK45	2
7	Slide Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Safety Pin	CK45	1
10	Stopper Plate	St 52	1
11	Spring Guide Pin	CK45	2
12	Slide Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Positive Return R	CuZn25Al5 - HB > 190	1
14	Positive Return L	CuZn25Al5 - HB > 190	1
15	Positive Return R	42CrMo4 Nitrided	1
16	Positive Return L	42CrMo4 Nitrided	1
17	Key	CK45	6
18	Shaft	CK45	1
19	Roller Bracket	CK45	1
20	Accelerator	CK45	1
21	Wear Plate	CK45	2
22	Wear Plate	CK45	4
23	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
24	Roller	NATR15PP	1
25G	Gas Spring - Return Type G	-	2
25S	Spring - Return Type S	-	2
26	Cam Driver Fixing Screws M16x70 DIN 912	-	4
27	Cam Base Fixing Screws M16x70 DIN 912	-	4
28	Gas Spring Spacer	CK45	2
29	Elastomer Cap	Elastomer 92SH	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
CHD300.00	0°	28,68	645	4,58	14,30
CHD300.05	5°	32,26	645	4,58	14,30
CHD300.10	10°	35,90	645	4,58	14,30
CHD300.15	15°	39,65	645	4,58	14,30
CHD300.20	20°	43,59	645	4,58	14,30
CHD300.25	25°	47,78	645	4,58	14,30
CHD300.30	30°	52,33	645	4,58	14,30
CHD300.35	35°	57,36	645	4,58	14,30
CHD300.40	40°	63,05	645	4,58	14,30
CHD300.45	45°	69,64	645	4,58	14,30
CHD300.50	50°	77,49	645	4,58	14,30
CHD300.55	55°	87,17	645	4,58	14,30
CHD300.60	60°	99,62	645	4,58	14,30
CHD300.65	65°	116,51	645	4,58	14,30

*Return Type: G = Gas Spring / S = Spring



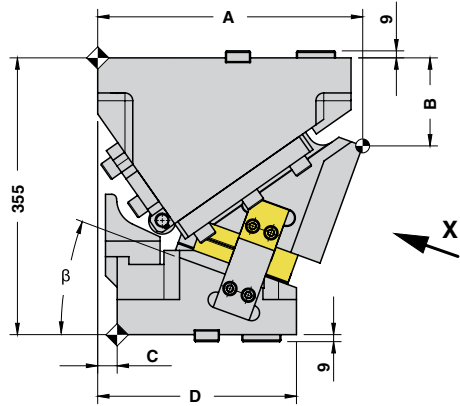
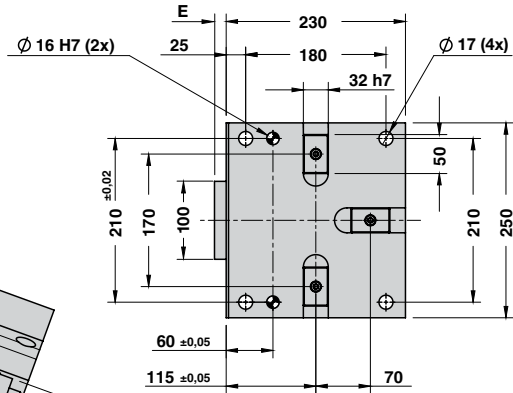
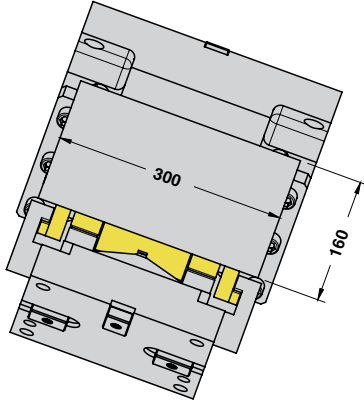
Art.	Work Angle = 5°	Return Type*
CHD300	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)					
		B	A	B	C	D	E
CHD300.00	0°		325	90	80	310	25
CHD300.05	5°		323,19	93,41	60	290	25
CHD300.10	10°		326,01	98,40	45	275	25
CHD300.15	15°		333,33	104,92	35	265	20
CHD300.20	20°		340,02	112,93	25	255	15
CHD300.25	25°		345,94	122,35	15	245	10
CHD300.30	30°		345,98	133,14	0	230	0
CHD300.35	35°		345,03	160,19	-15	215	0
CHD300.40	40°		337,97	173,42	-35	195	0
CHD300.45	45°		334,71	187,72	-50	180	0
CHD300.50	50°		325,15	202,99	-70	160	0
CHD300.55	55°		314,23	219,12	-90	140	0
CHD300.60	60°		306,86	235,98	-105	125	0
CHD300.65	65°		298	253,44	-120	110	0

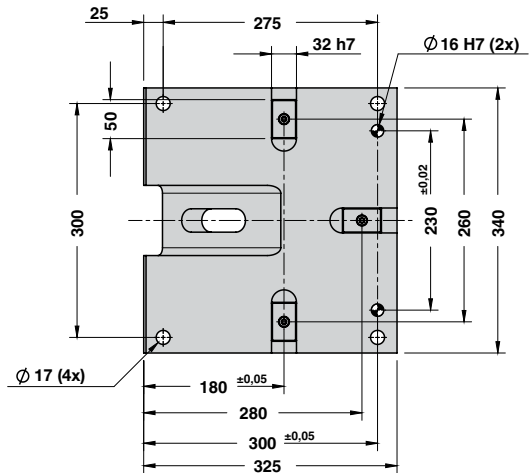
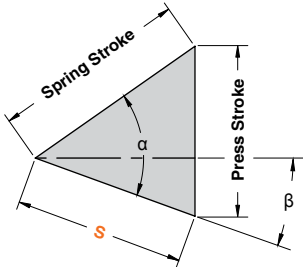


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

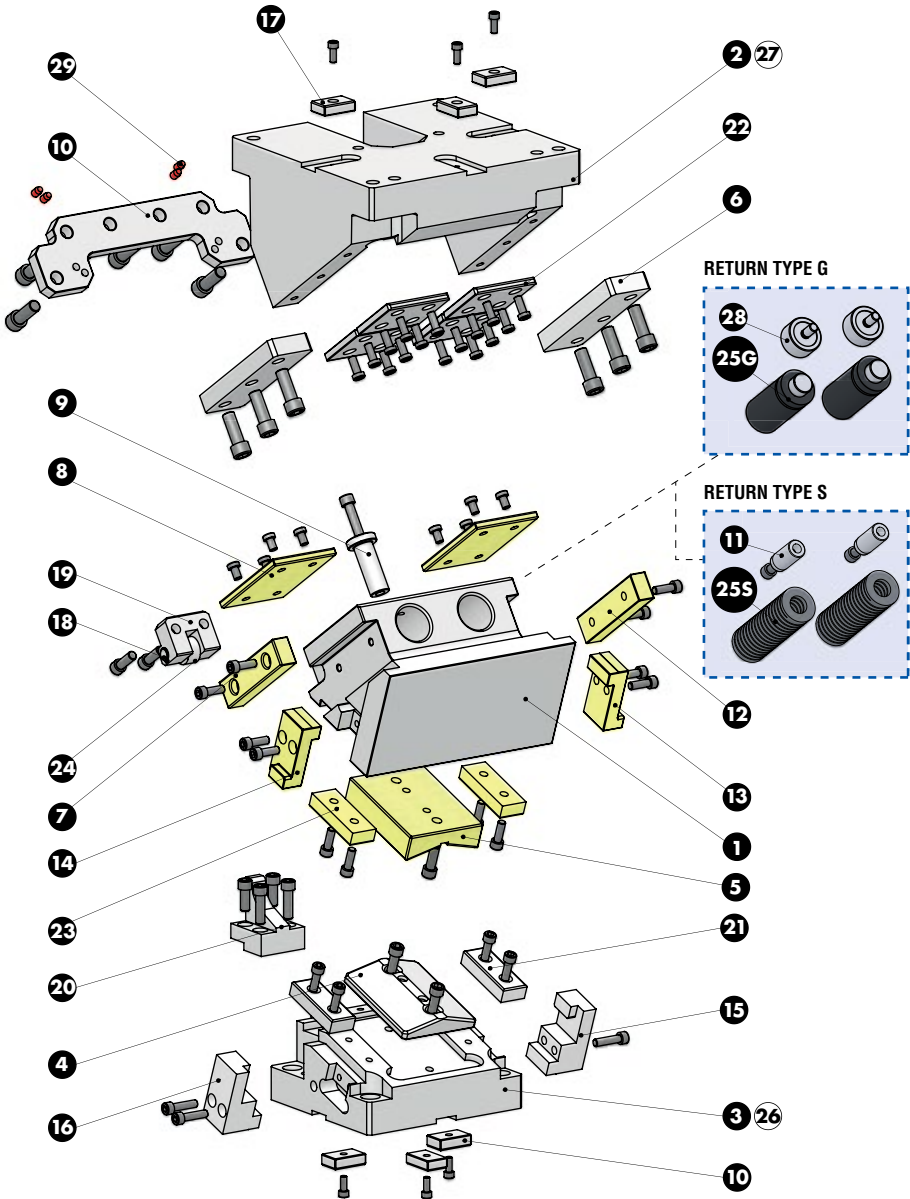


CAM DIAGRAM





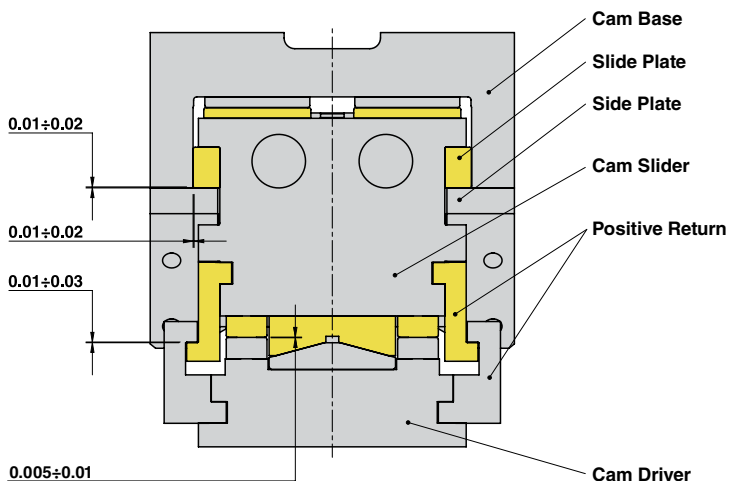
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

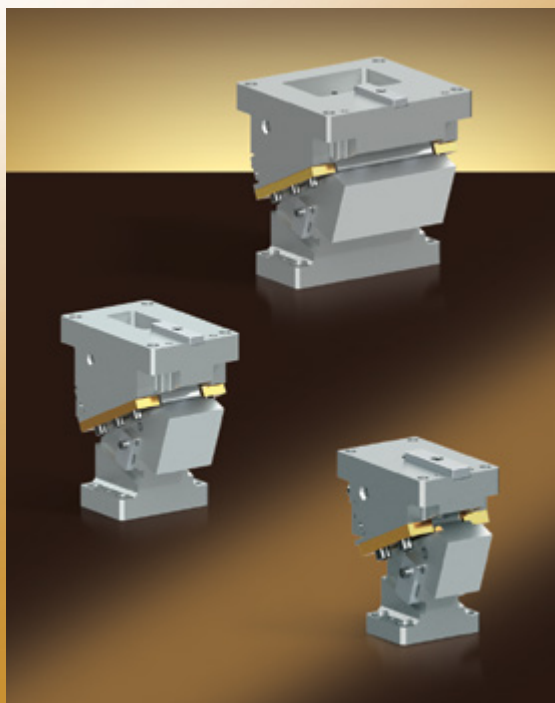


Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Base	GG-30	1
3	Cam Driver	GG-30	1
4	Male "V" Driver	CK45	1
5	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate	CK45	2
7	Slide Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Safety Pin	CK45	1
10	Stopper Plate	St 52	1
11	Spring Guide Pin	CK45	2
12	Slide Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Positive Return R	CuZn25Al5 - HB > 190	1
14	Positive Return L	CuZn25Al5 - HB > 190	1
15	Positive Return R	42CrMo4 Nitrided	1
16	Positive Return L	42CrMo4 Nitrided	1
17	Key	CK45	6
18	Shaft	CK45	1
19	Roller Bracket	CK45	1
20	Accelerator	CK45	1
21	Wear Plate	CK45	2
22	Wear Plate	CK45	4
23	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
24	Roller	NATR15PP	1
25G	Gas Spring - Return Type G	-	2
25S	Spring - Return Type S	-	2
26	Cam Driver Fixing Screws M16x70 DIN 912	-	4
27	Cam Base Fixing Screws M16x70 DIN 912	-	4
28	Gas Spring Spacer	CK45	2
29	Elastomer Cap	Elastomer 92SH	4



OMCR®

STANDARD DIE COMPONENTS



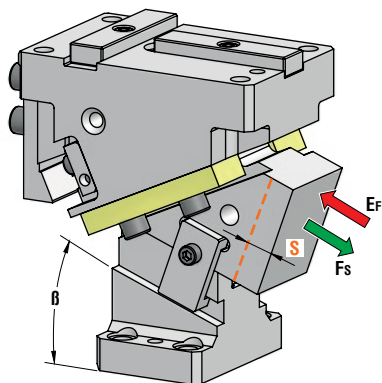
**CAM UNITS CHK
SCHIEBER CHK
CAMME CHK**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
CHK065	0°±70° (5° steps)	65	210	65 x "F"	58	0,32÷0,85
CHK100	0°±70° (10° steps)	100	280	100 x "F"	96	0,99÷2,10
CHK200	0°±70° (10° steps)	200	280	200 x "F"	231	1,98÷4,21



Advanced production tools

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) F_S	Extraction Force (kN)
				E_F Spring
CHK065.00	0°	26,87	58	0,79
CHK065.05	5°	26,97	58	0,77
CHK065.10	10°	31,61	58	0,85
CHK065.15	15°	32,23	58	0,77
CHK065.20	20°	33,76	58	0,85
CHK065.25	25°	35	58	0,77
CHK065.30	30°	33,46	58	0,85
CHK065.35	35°	35,38	58	0,77
CHK065.40	40°	42,91	58	0,85
CHK065.45	45°	46,49	58	0,77
CHK065.50	50°	54,45	58	0,77
CHK065.55	55°	43,59	58	0,62
CHK065.60	60°	50	58	0,54
CHK065.65	65°	47,32	58	0,39
CHK065.70	70°	58,48	58	0,32

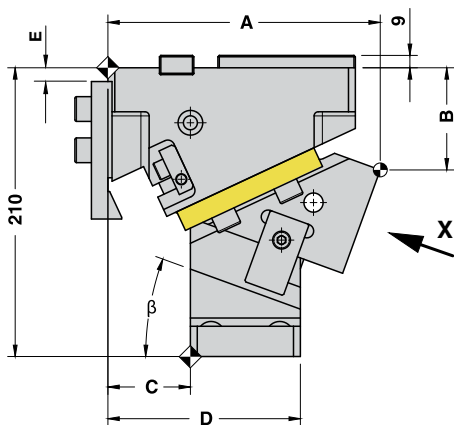
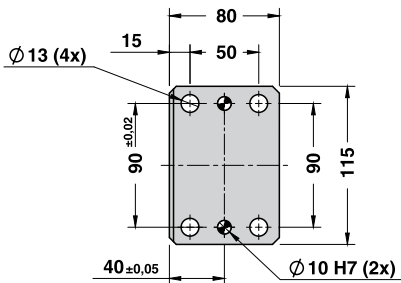
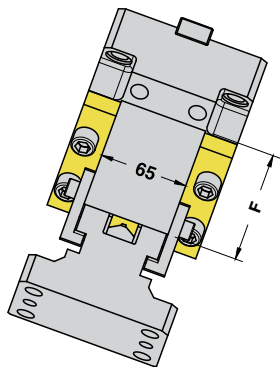


Art.	Work Angle = 5°
CHK065	05

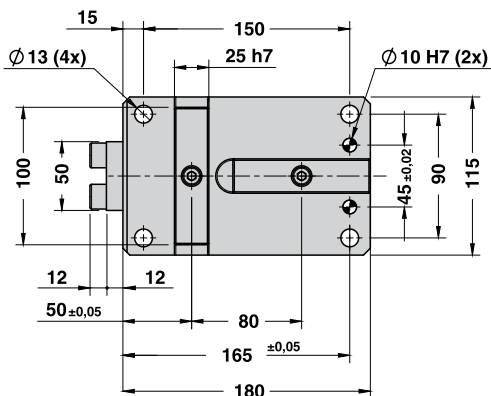
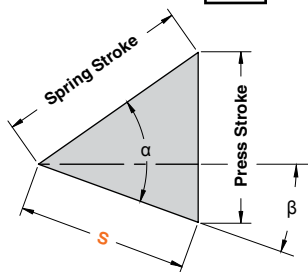
OMCR CODE	Work Angle	Overall Dimensions (mm)					
		B	A	B	C	D	E
CHK065.00	0°	185,94	56,57	75	155	55	80
CHK065.05	5°	193,01	56,57	70	150	55	90
CHK065.10	10°	196,80	67,58	70	150	40	80
CHK065.15	15°	203,77	68,81	67	147	40	90
CHK065.20	20°	198,10	74,31	60	140	10	80
CHK065.25	25°	204,75	76,73	55	135	10	90
CHK065.30	30°	193,63	89,52	50	130	10	80
CHK065.35	35°	199,76	93,06	45	125	10	90
CHK065.40	40°	188,72	99,62	40	120	15	80
CHK065.45	45°	194,13	104,16	34	114	15	90
CHK065.50	50°	190	110	30	110	10	90
CHK065.55	55°	190	115	20	100	10	100
CHK065.60	60°	190	115	20	100	10	100
CHK065.65	65°	190	130	0	80	10	110
CHK065.70	70°	190	130	0	80	10	110

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

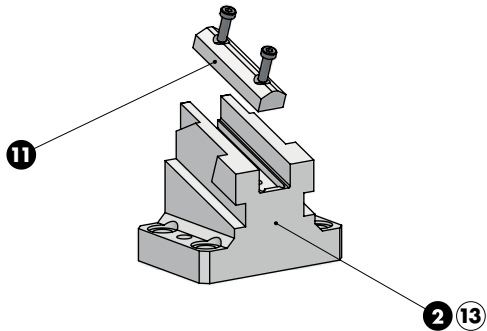
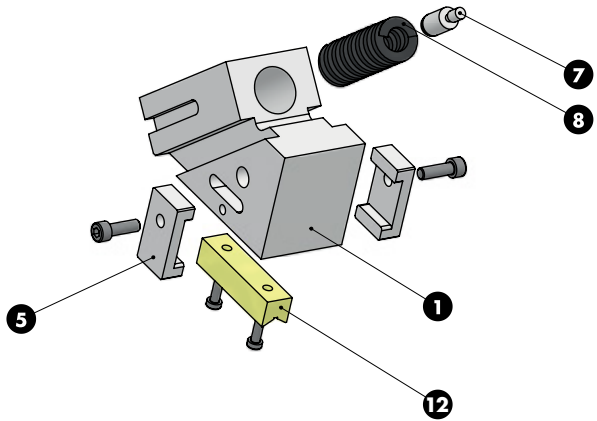
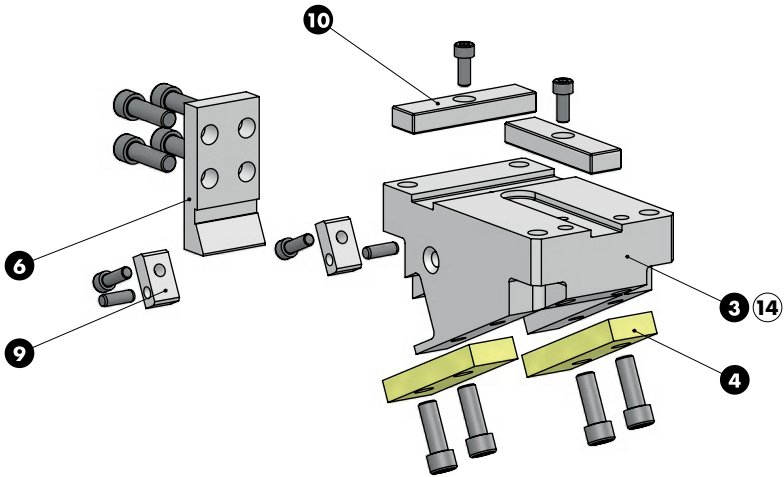
X VIEW



CAM DIAGRAM

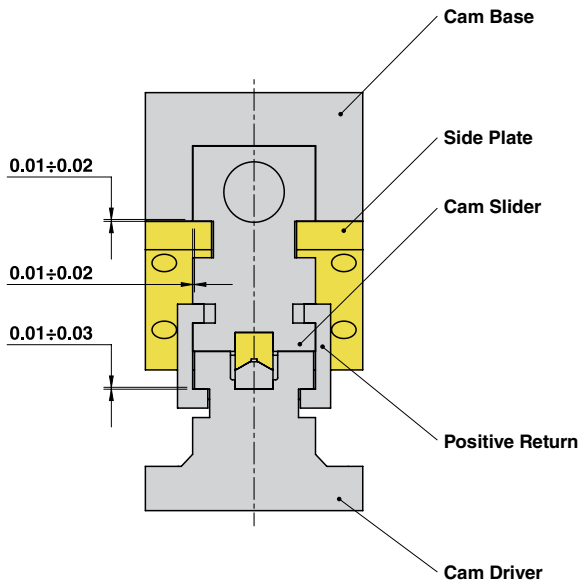


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

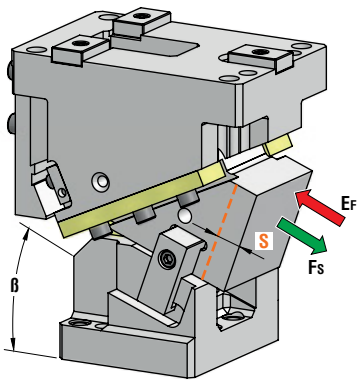
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHK

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	1
8	Spring	-	1
9	Plate	CK45	2
10	Key	CK45	2
11	Male "V" Driver	CK45	1
12	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
13	Cam Driver Fixing Screws M12x45 DIN 912	-	4
14	Cam Base Fixing Screws M12x55 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Spring
CHK100.00	0°	28,28	96	2,10
CHK100.10	10°	33,27	96	2,10
CHK100.20	20°	30,86	96	1,86
CHK100.30	30°	33,46	96	2,10
CHK100.40	40°	39,01	96	2,10
CHK100.50	50°	46,67	96	1,91
CHK100.60	60°	60	96	1,48
CHK100.70	70°	58,48	96	0,99

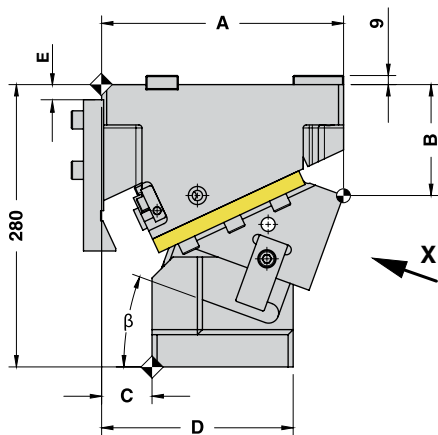
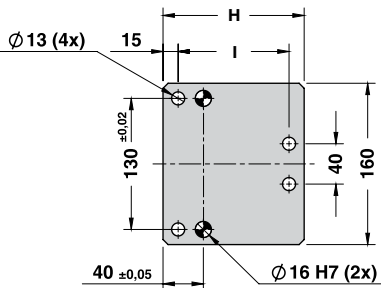
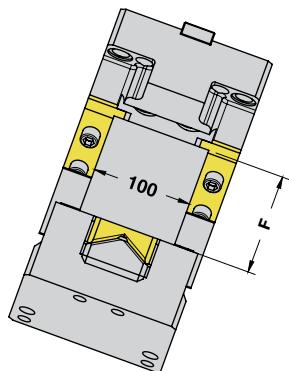


Art.	Work Angle = 10°
CHK100	10

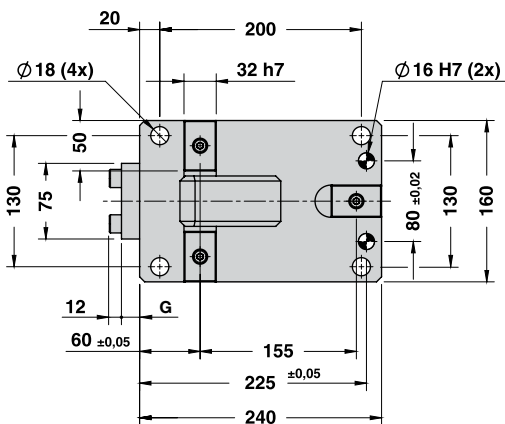
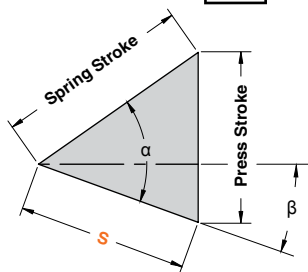
OMCR CODE	Work Angle	Overall Dimensions (mm)								
		β	A	B	C	D	E	F	G	H
CHK100.00	0°	240	85	80	220	55	100	17	140	110
CHK100.10	10°	240	90	60	200	35	100	17	140	110
CHK100.20	20°	240	110	50	190	15	100	18	140	110
CHK100.30	30°	240	110	30	160	10	120	17	130	100
CHK100.40	40°	240	115	30	150	10	120	17	120	90
CHK100.50	50°	240	120	10	130	0	140	16	120	90
CHK100.60	60°	240	145	0	110	0	140	16	110	80
CHK100.70	70°	240	145	0	110	0	140	16	110	80

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

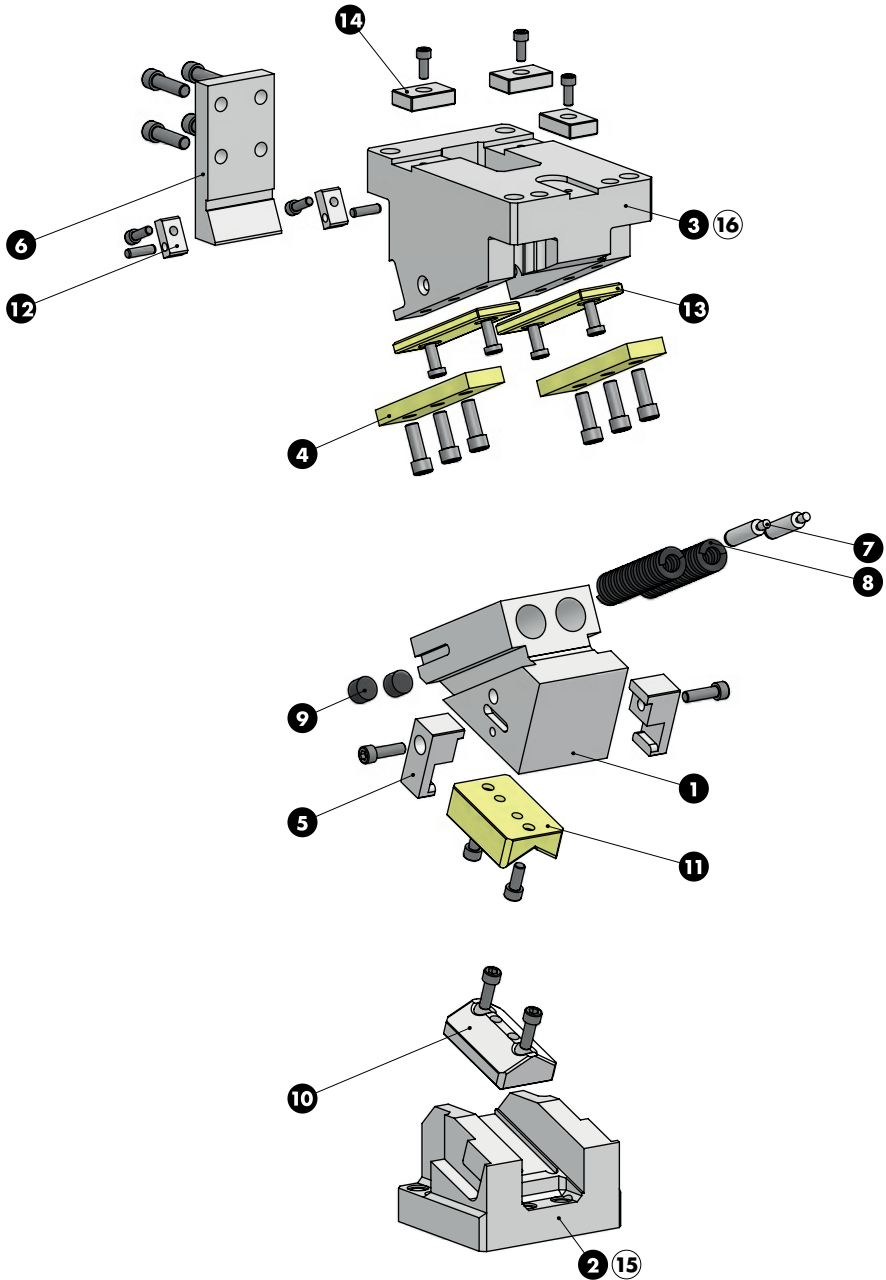
X VIEW



CAM DIAGRAM

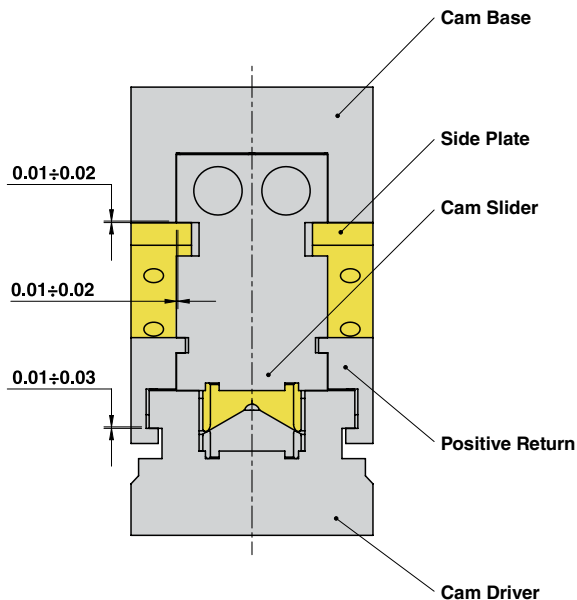


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

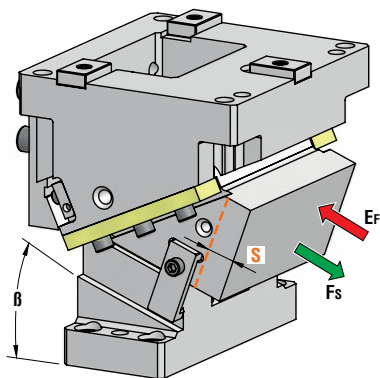
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHK

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-25 + Graphite	1
2	Cam Driver	GGG-25 + Graphite	1
3	Cam Base	GGG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	2
8	Spring	-	2
9	Elastomer Cap	Elastomer 92SH	2
10	Male "V" Driver	CK45	1
11	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
12	Plate	CK45	2
13	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
14	Key	CK45	3
15	Cam Driver Fixing Screws M12x55 DIN 912	-	4
16	Cam Base Fixing Screws M16x70 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f / Spring
CHK200.00	0°	28,28	231	4,21
CHK200.10	10°	33,27	231	4,21
CHK200.20	20°	30,86	231	3,71
CHK200.30	30°	33,46	231	4,20
CHK200.40	40°	39,01	231	4,20
CHK200.50	50°	46,67	231	3,81
CHK200.60	60°	60	231	2,97
CHK200.70	70°	58,48	231	1,98

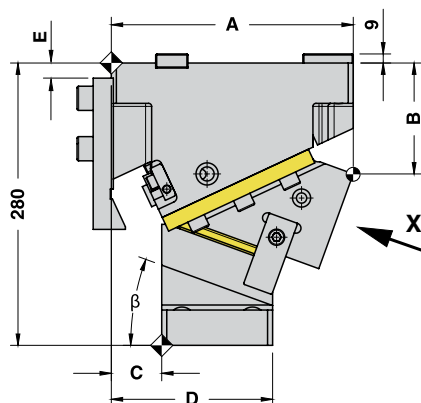
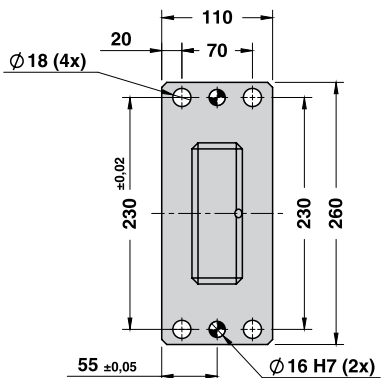
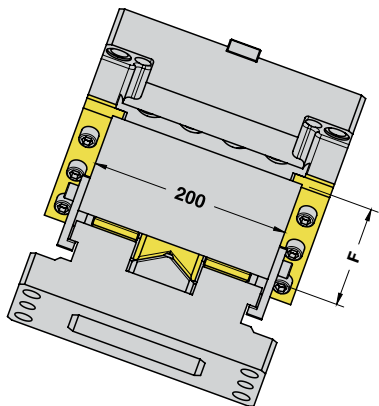


Art.	Work Angle = 10°
CHK200	10

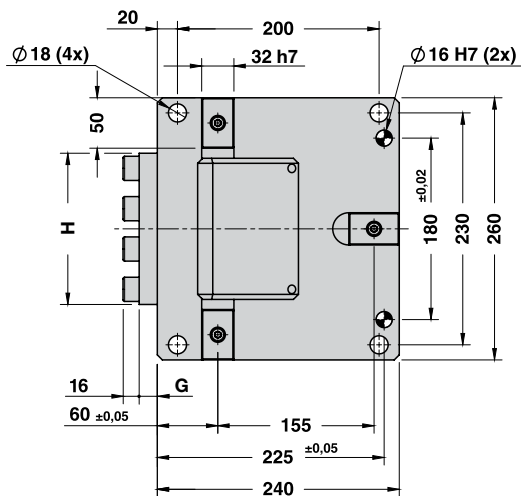
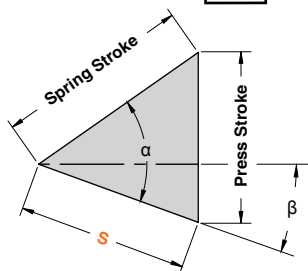
OMCR CODE	Work Angle	Overall Dimensions (mm)							
		B	A	B	C	D	E	F	G
CHK200.00	0°	240	85	80	190	55	100	17	190
CHK200.10	10°	240	90	60	170	35	100	17	150
CHK200.20	20°	240	110	50	160	15	100	18	150
CHK200.30	30°	240	110	30	140	10	120	17	150
CHK200.40	40°	240	115	30	140	10	120	17	150
CHK200.50	50°	240	120	10	120	0	140	16	150
CHK200.60	60°	240	145	0	110	0	140	16	150
CHK200.70	70°	240	145	0	110	0	140	16	150

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

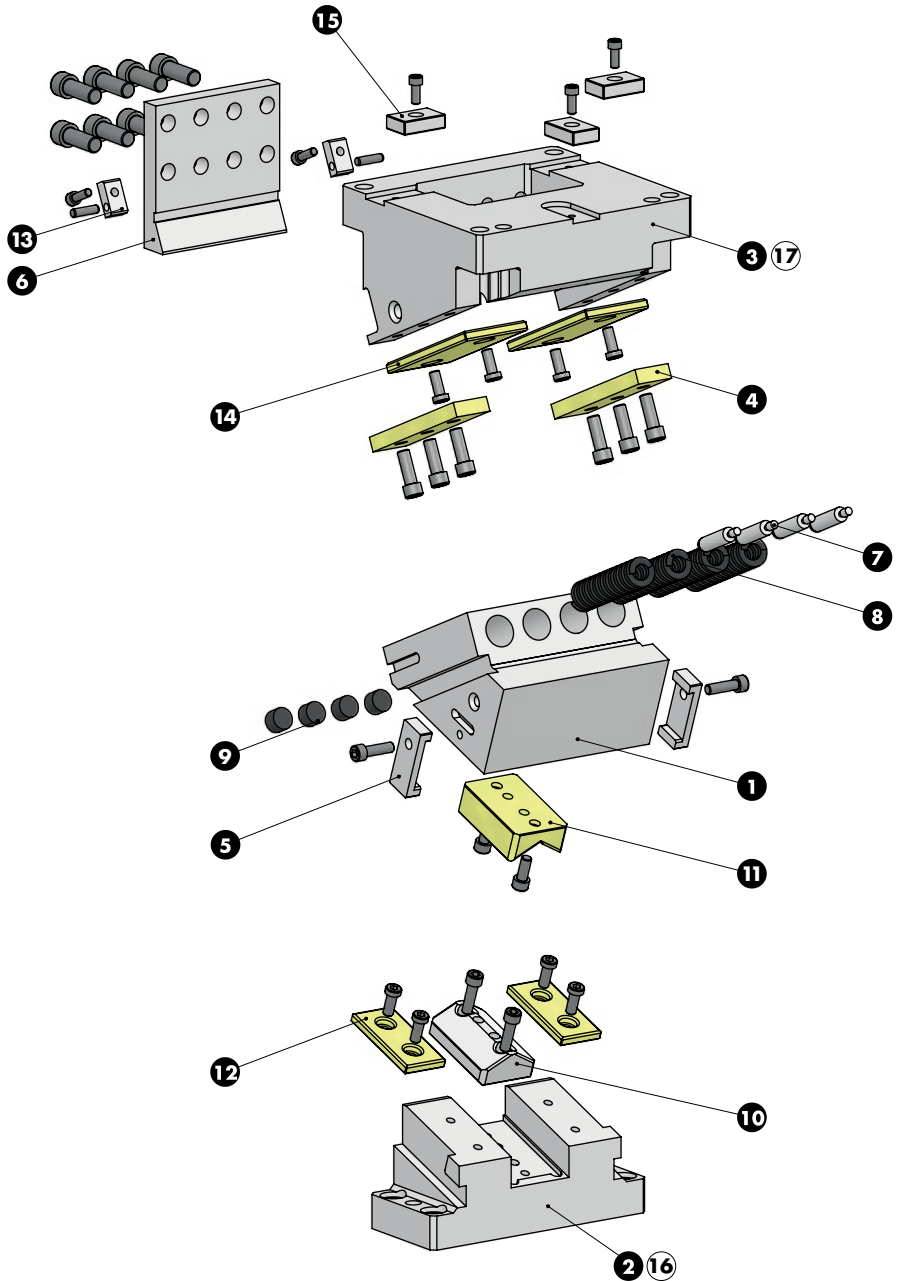
X VIEW



CAM DIAGRAM

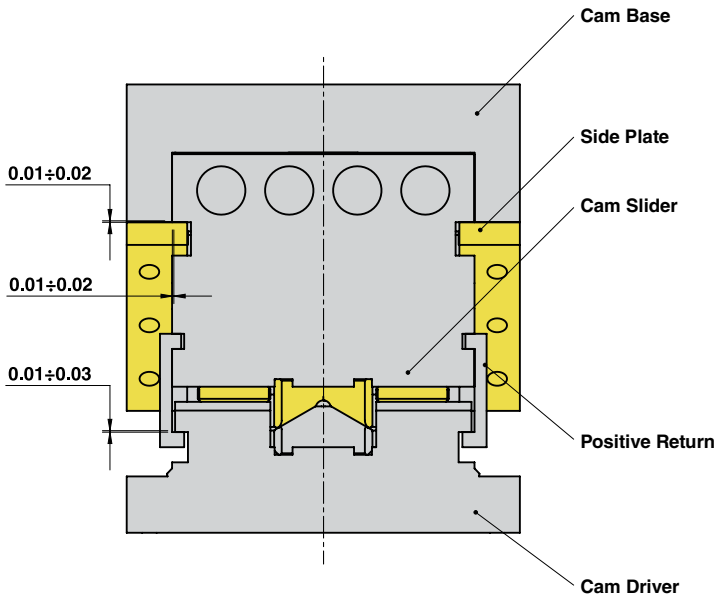


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



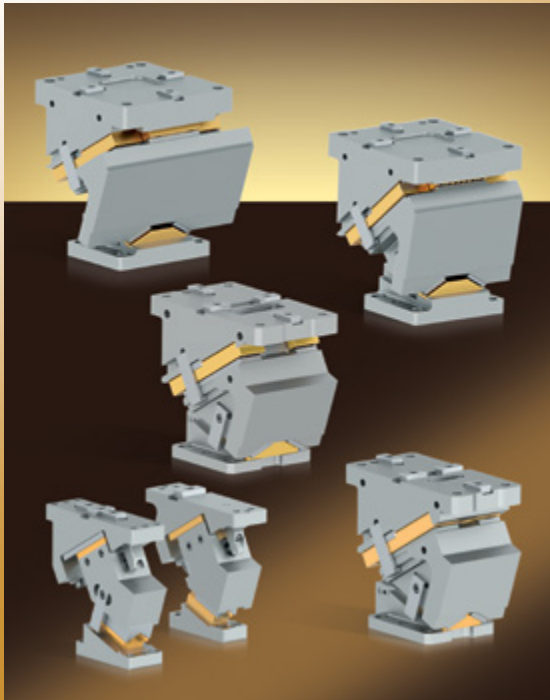
Cam Units CHK

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	4
8	Spring	-	4
9	Elastomer Cap	Elastomer 92SH	4
10	Male "V" Driver	CK45	1
11	Female "V" Driver	CuZn25Al5+ Graphite - HB > 190	1
12	Wear Plate	CuZn25Al5+ Graphite - HB > 190	2
13	Plate	CK45	2
14	Wear Plate	CuZn25Al5 - HB > 190	2
15	Key	CK45	3
16	Cam Driver Fixing Screws M16x60 DIN 912	-	4
17	Cam Base Fixing Screws M16x70 DIN 912	-	4



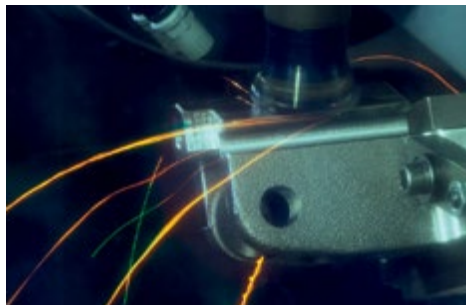
OMCR®

STANDARD DIE COMPONENTS



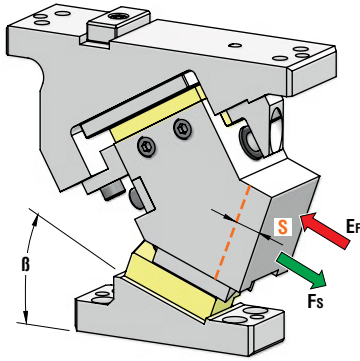
**CAM UNITS CHR
SCHIEBER CHR
CAMME CHR**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)	
						E _F	
	β				F _s	Spring	Gas Spring
CHR070	0°÷60° (5° steps)	70	225	70x75	90	0,25÷0,38	1,30÷1,74
CHR080	0°÷60° (5° steps)	80	275	80x75	153	0,56÷0,87	1,48÷2,08
CHR165	0°÷60° (5° steps)	165	300	165x120	340	1,16÷1,49	1,91÷2,46
CHR200	0°÷60° (5° steps)	200	300	200x120	408	1,82÷2,35	3,75÷4,82
CHR300	0°÷60° (5° steps)	300	375	300x160	521	3,89÷5,09	6,85÷9,40
CHR400	0°÷60° (5° steps)	400	375	400x160	521	3,89÷5,09	6,85÷9,40



Advanced machines and production systems

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
CHR070.00	0°	19,28	90	0,38	1,74
CHR070.05	5°	21,29	90	0,38	1,74
CHR070.10	10°	23,34	90	0,38	1,74
CHR070.15	15°	25,44	90	0,38	1,74
CHR070.20	20°	27,65	90	0,38	1,74
CHR070.25	25°	30	90	0,38	1,74
CHR070.30	30°	32,55	90	0,38	1,74
CHR070.35	35°	35,38	90	0,38	1,74
CHR070.40	40°	38,57	90	0,38	1,74
CHR070.45	45°	42,26	90	0,38	1,74
CHR070.50	50°	46,67	90	0,38	1,74
CHR070.55	55°	43,59	90	0,28	1,49
CHR070.60	60°	50	90	0,25	1,30

*Return Type: G = Gas Spring / S = Spring

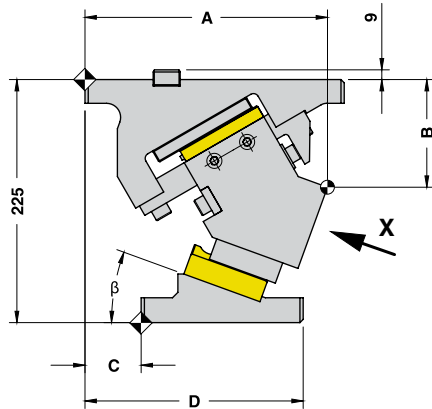
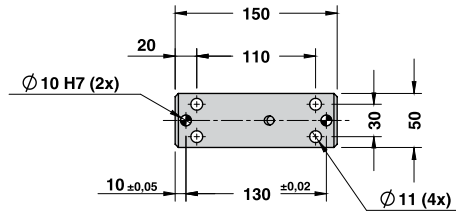
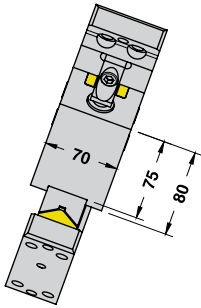


Art.	Work Angle = 5°	Return Type*
CHR070	05	G

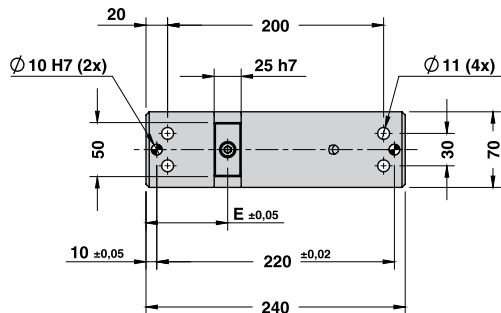
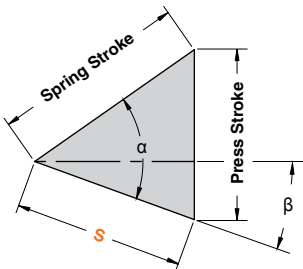
OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
CHR070.00	0°	237,37	85	102	252	81,37
CHR070.05	5°	234,87	86,28	92	242	81,53
CHR070.10	10°	232,82	88,76	81	231	80,24
CHR070.15	15°	217,54	96,59	57	207	66,67
CHR070.20	20°	224,52	99,67	52	202	75,62
CHR070.25	25°	223,46	105,45	42	192	75,76
CHR070.30	30°	211,54	112,99	30	180	66,03
CHR070.35	35°	210,68	117,20	17	167	66,86
CHR070.40	40°	204,84	125,07	4	154	63,69
CHR070.45	45°	198,15	131,28	-2	148	58,40
CHR070.50	50°	190,95	135,15	-21	129	49,59
CHR070.55	55°	190,51	146	-23	127	56,02
CHR070.60	60°	185,81	155,86	-35	115	56,99

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

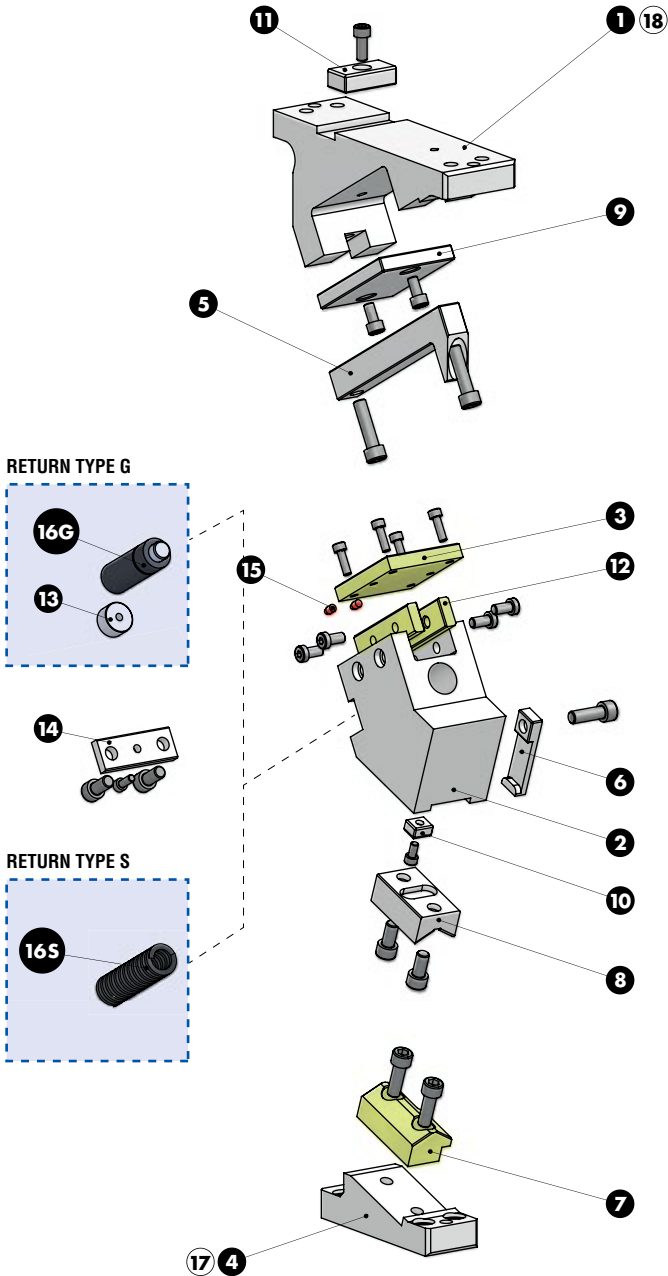
X VIEW



CAM DIAGRAM

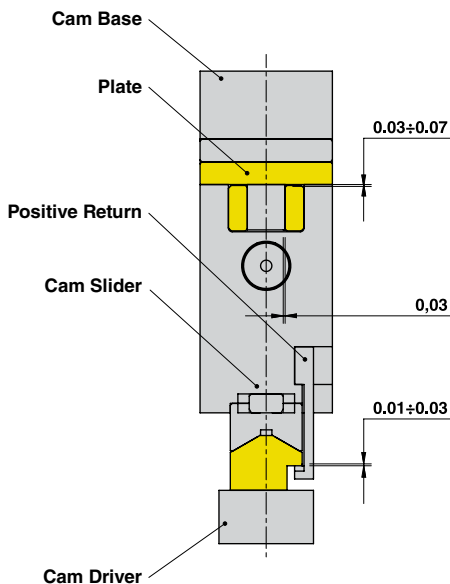


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

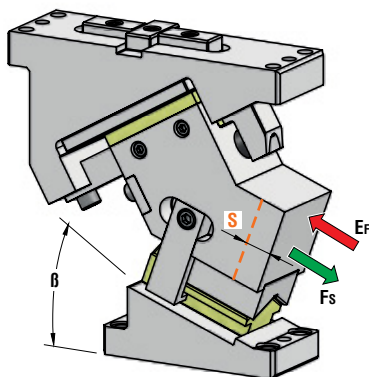
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHR

Particular number	Description	Material	Quantity
1	Cam Base	GGG-50	1
2	Cam Slider	GGG-50	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	GG-25	1
5	Guide Bar	CK45	1
6	Positive Return	CK45	1
7	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
8	Female "V" Driver	CK45	1
9	Wear Plate	CK45	1
10	Key	CK45	1
11	Key	CK45	1
12	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
13	Spring Spacer	CK45	1
14	Spring Stopper Plate	CK45	1
15	Elastomer Cap	Elastomer 92SH	2
16G	Gas Spring - Return Type G	-	1
16S	Spring - Return Type S	-	1
17	Cam Driver Fixing Screws M12x50 DIN 912	-	4
18	Cam Base Fixing Screws M12x50 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN) Ef	
				Spring	Gas Spring
CHR080.00	0°	32,14	153	0,87	2,08
CHR080.05	5°	35,49	153	0,87	2,08
CHR080.10	10°	38,89	153	0,87	2,08
CHR080.15	15°	42,40	153	0,87	2,08
CHR080.20	20°	46,08	153	0,87	2,08
CHR080.25	25°	50	153	0,87	2,08
CHR080.30	30°	54,25	153	0,87	2,08
CHR080.35	35°	58,96	153	0,87	2,08
CHR080.40	40°	64,28	153	0,87	2,08
CHR080.45	45°	70,44	153	0,87	2,08
CHR080.50	50°	77,79	153	0,87	2,08
CHR080.55	55°	78,46	153	0,71	1,77
CHR080.60	60°	80	153	0,56	1,48

*Return Type: G = Gas Spring / S = Spring

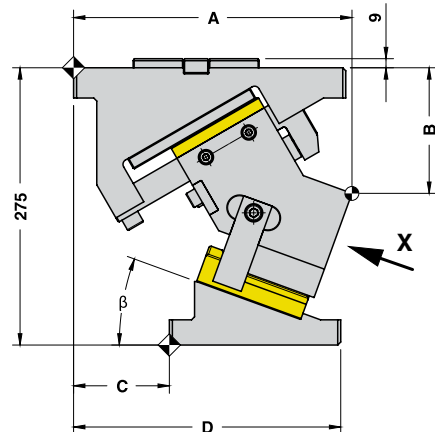
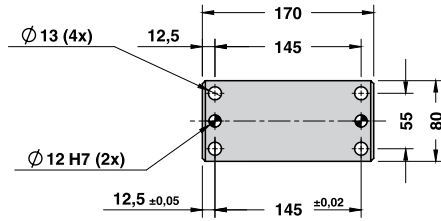
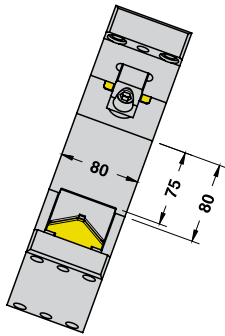


Art.	Work Angle = 5°	Return Type*
CHR080	05	G

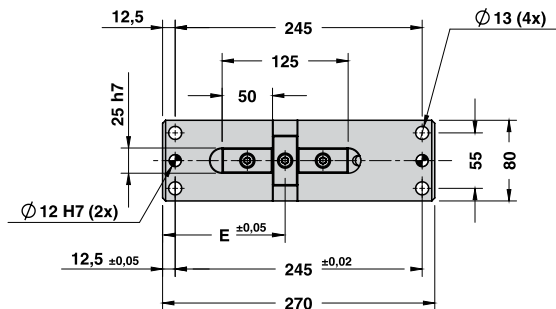
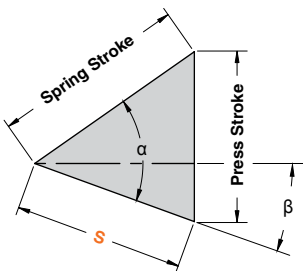
OMCR CODE	Work Angle	Overall Dimensions (mm)				
		B	A	B	C	D
CHR080.00	0°	280	110	135	305	99,50
CHR080.05	5°	281,31	115,93	125	295	116,50
CHR080.10	10°	277,50	117,84	110	280	115,87
CHR080.15	15°	280,48	120,72	105	275	123,20
CHR080.20	20°	276,16	124,55	95	265	121,57
CHR080.25	25°	271,47	129,29	80	250	121,07
CHR080.30	30°	264,33	134,92	65	235	116,77
CHR080.35	35°	260,66	141,38	55	225	116,26
CHR080.40	40°	252,32	147,76	35	205	110,84
CHR080.45	45°	247,46	156,61	30	200	109,54
CHR080.50	50°	237,80	165,27	15	185	103,62
CHR080.55	55°	231,36	174,53	0	170	117,12
CHR080.60	60°	233,95	185,89	0	170	116,03

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

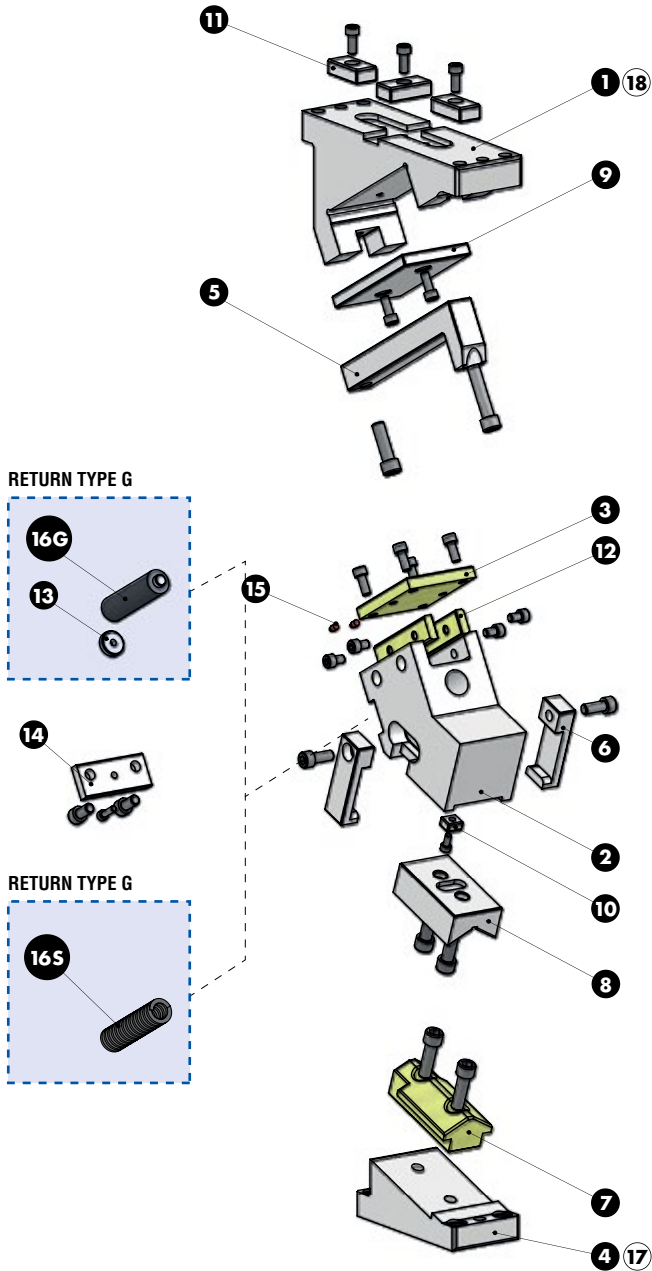
X VIEW



CAM DIAGRAM

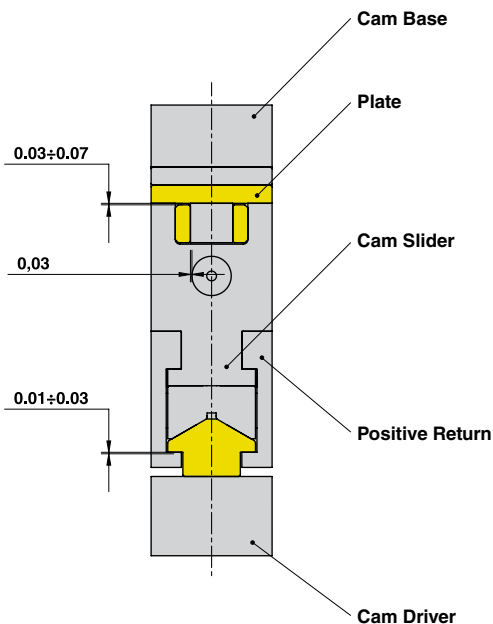


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

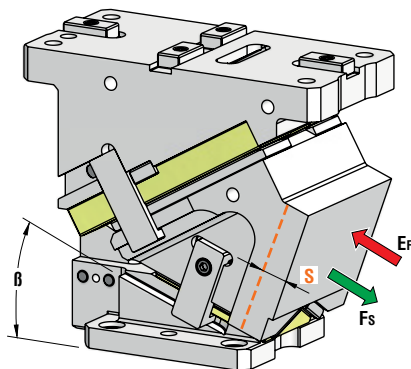
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHR

Particular number	Description	Material	Quantity
1	Cam Base	GGG-40	1
2	Cam Slider	GG-25	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	GG-25	1
5	Guide Bar	CK45	1
6	Positive Return	CK45	2
7	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
8	Female "V" Driver	CK45	1
9	Wear Plate	CK45	1
10	Key	CK45	1
11	Key	CK45	3
12	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
13	Spring Spacer	CK45	1
14	Spring Stopper Plate	CK45	1
15	Elastomer Cap	Elastomer 92SH	2
16G	Gas Spring - Return Type G	-	1
16S	Spring - Return Type S	-	1
17	Cam Driver Fixing Screws M12x50 DIN 912	-	4
18	Cam Base Fixing Screws M12x50 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN) Ef	
				Spring	Gas Spring
CHR165.00	0°	32,14	340	1,49	2,46
CHR165.05	5°	35,49	340	1,49	2,46
CHR165.10	10°	38,89	340	1,49	2,46
CHR165.15	15°	42,40	340	1,49	2,46
CHR165.20	20°	46,08	340	1,49	2,46
CHR165.25	25°	50	340	1,49	2,46
CHR165.30	30°	54,25	340	1,49	2,46
CHR165.35	35°	58,96	340	1,49	2,46
CHR165.40	40°	64,28	340	1,49	2,46
CHR165.45	45°	70,44	340	1,49	2,46
CHR165.50	50°	77,79	340	1,49	2,46
CHR165.55	55°	87,17	340	1,33	2,20
CHR165.60	60°	100	340	1,16	1,91

OPTION CODE

N

Dowel pin hole $\varnothing 16$ H7 drilled on Cam Base

*Return Type: G = Gas Spring / S = Spring

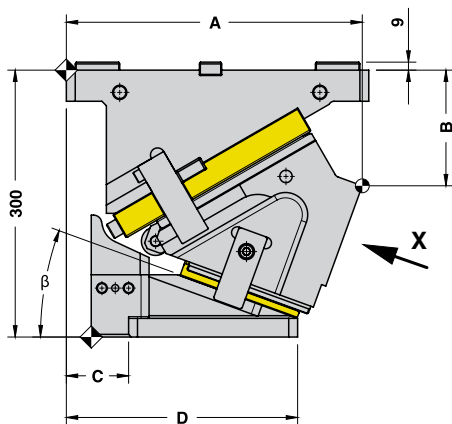
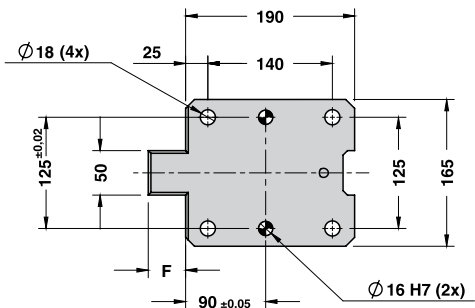
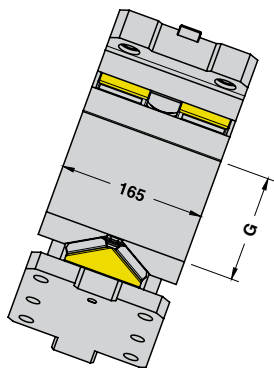


Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHR165	05	G	N N16

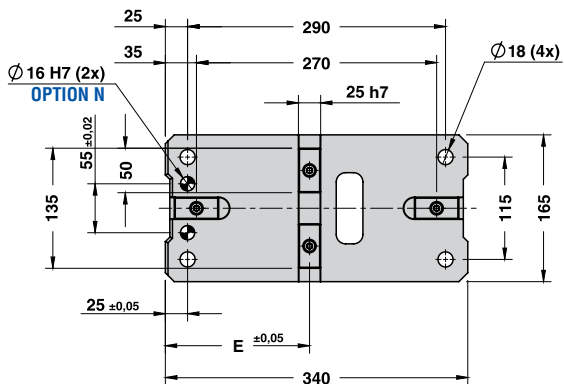
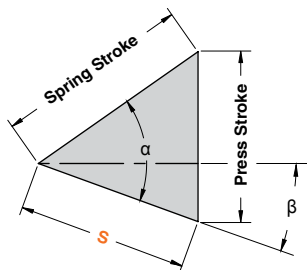
OMCR CODE	Work Angle β	Overall Dimensions (mm)						
		A	B	C	D	E	F	G
CHR165.00	0°	335,84	96,98	128	318	154,84	55	120
CHR165.05	5°	335,25	100,91	113	303	155,32	55	120
CHR165.10	10°	337,27	111,09	101	291	159,30	50	120
CHR165.15	15°	329,78	122,46	80	270	156,45	45	120
CHR165.20	20°	332,68	129,99	70	260	162,11	42	120
CHR165.25	25°	332,88	138,62	58	248	167,33	37	120
CHR165.30	30°	334,28	148,28	48	238	170,39	30	120
CHR165.35	35°	329,80	158,89	33	223	167,66	25	120
CHR165.40	40°	321,35	170,38	15	205	161,18	25	120
CHR165.45	45°	314,86	182,66	0	190	155,49	25	120
CHR165.50	50°	307,27	195,63	-15	175	149,10	0	120
CHR165.55	55°	296,59	210,30	-32	158	121,17	0	125
CHR165.60	60°	288,56	222,26	-45	145	113,04	0	125

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

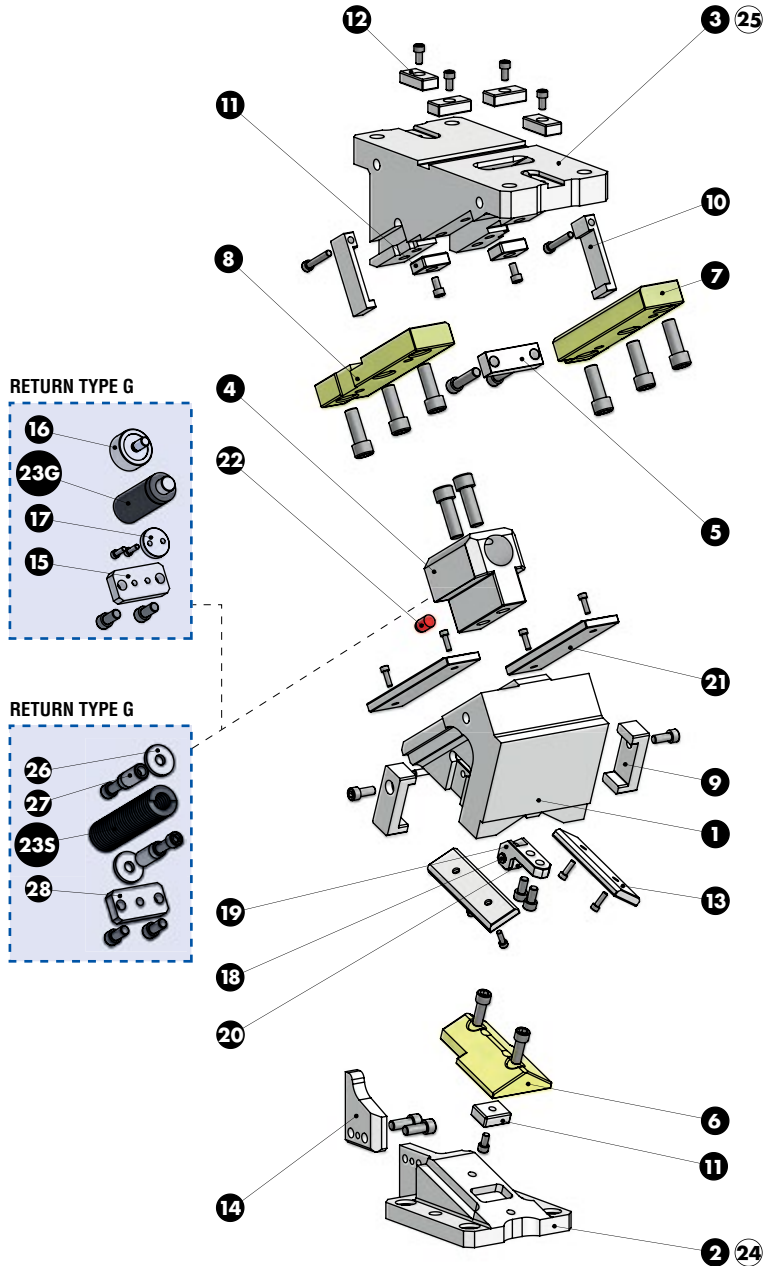
X VIEW



CAM DIAGRAM

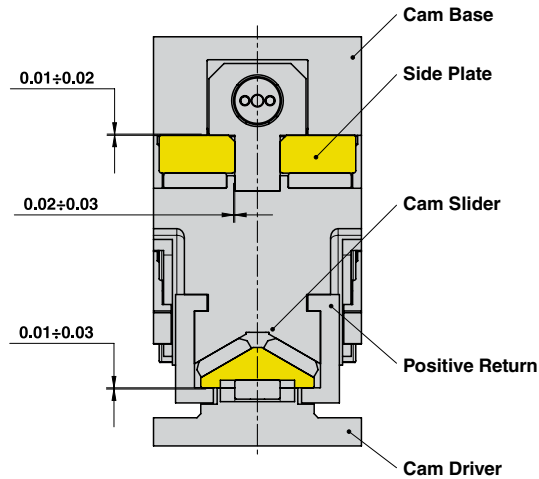


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



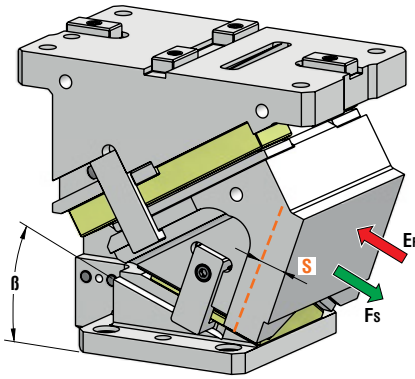
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Spring Guide Block	CK45 + Graphite	1
5	Stopper Plate	CK45	1
6	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
7	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
9	Positive Return	42CrMo4 Nitrided	2
10	Positive Return	CK45	2
11	Key	CK45	3
12	Key	CK45	4
13	Wear Plate	CK45	2
14	Accelerator	CK45	1
15	Spring Stopper Plate	CK45	1
16	Spring Guide Pin	CK45	1
17	Spring Spacer	CK45	1
18	Shaft	CK45	1
19	Roller Bracket	CK45	1
20	Roller	NATR15PP	1
21	Wear Plate VDI 3357	CK45	2
22	Elastomer Cap	Elastomer 92SH	1
23G	Gas Spring - Return Type G	-	1
23S	Spring - Return Type S	-	1
24	Cam Driver Fixing Screws M16x50 DIN 912	-	4
25	Cam Base Fixing Screws M16x60 DIN 912	-	4
26	Washer	CK45	1
27	Spring Guide Pin	CK45	1
28	Spring Stopper Plate	CK45	1

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) F_s	Extraction Force (kN) E_f	
				Spring	Gas Spring
CHR200.00	0°	32,14	408	2,35	4,82
CHR200.05	5°	35,49	408	2,35	4,82
CHR200.10	10°	38,89	408	2,35	4,82
CHR200.15	15°	42,40	408	2,35	4,82
CHR200.20	20°	46,08	408	2,35	4,82
CHR200.25	25°	50	408	2,35	4,82
CHR200.30	30°	54,25	408	2,35	4,82
CHR200.35	35°	58,96	408	2,35	4,82
CHR200.40	40°	64,28	408	2,35	4,82
CHR200.45	45°	70,44	408	2,35	4,82
CHR200.50	50°	77,79	408	2,35	4,82
CHR200.55	55°	87,17	408	2,09	4,30
CHR200.60	60°	100	408	1,82	3,75

OPTION CODE

N

Dowel pin hole Ø16 H7 drilled on Cam Base

*Return Type: G = Gas Spring / S = Spring

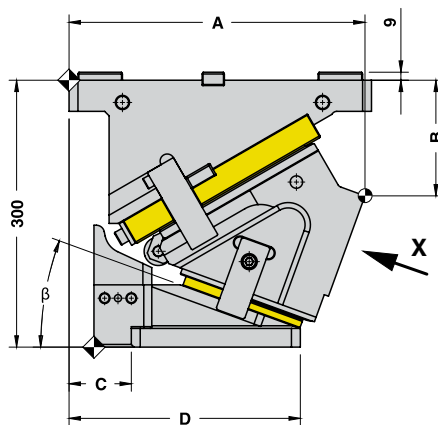
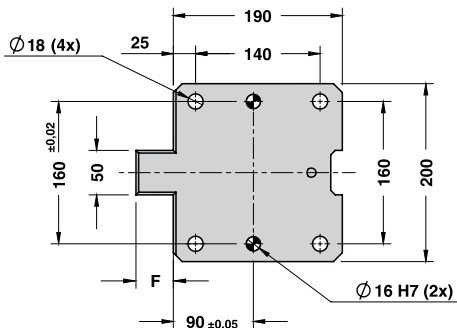
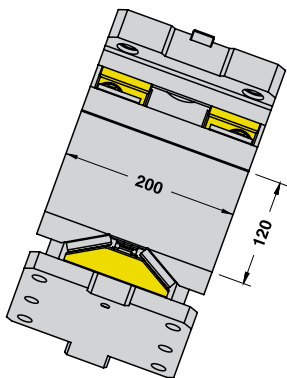


Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHR200	05	G	N16

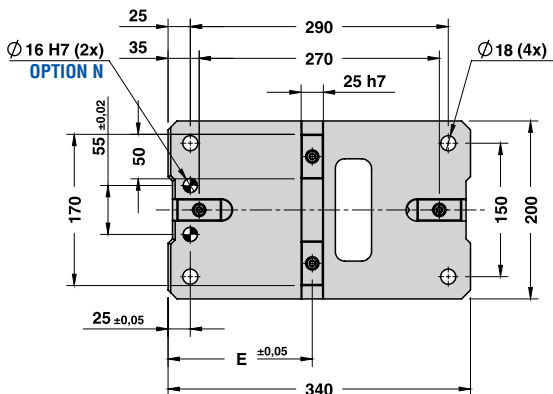
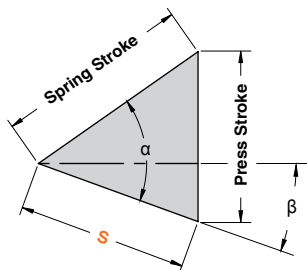
OMCR CODE	Work Angle β	Overall Dimensions (mm)					
		A	B	C	D	E	F
CHR200.00	0°	335,84	96,98	128	318	154,84	55
CHR200.05	5°	335,25	100,91	113	303	155,32	55
CHR200.10	10°	337,27	111,09	101	291	159,30	50
CHR200.15	15°	329,78	122,46	80	270	156,45	45
CHR200.20	20°	332,68	129,99	70	260	162,11	42
CHR200.25	25°	332,88	138,62	58	248	167,33	37
CHR200.30	30°	334,28	148,28	48	238	170,39	30
CHR200.35	35°	329,80	158,89	33	223	167,66	25
CHR200.40	40°	321,35	170,38	15	205	161,18	25
CHR200.45	45°	314,86	182,66	0	190	155,49	25
CHR200.50	50°	307,27	195,63	-15	175	149,10	0
CHR200.55	55°	296,59	210,30	-32	158	121,17	0
CHR200.60	60°	288,56	222,26	-45	145	113,04	0

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

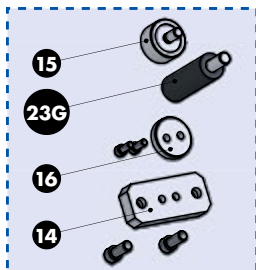


CAM DIAGRAM

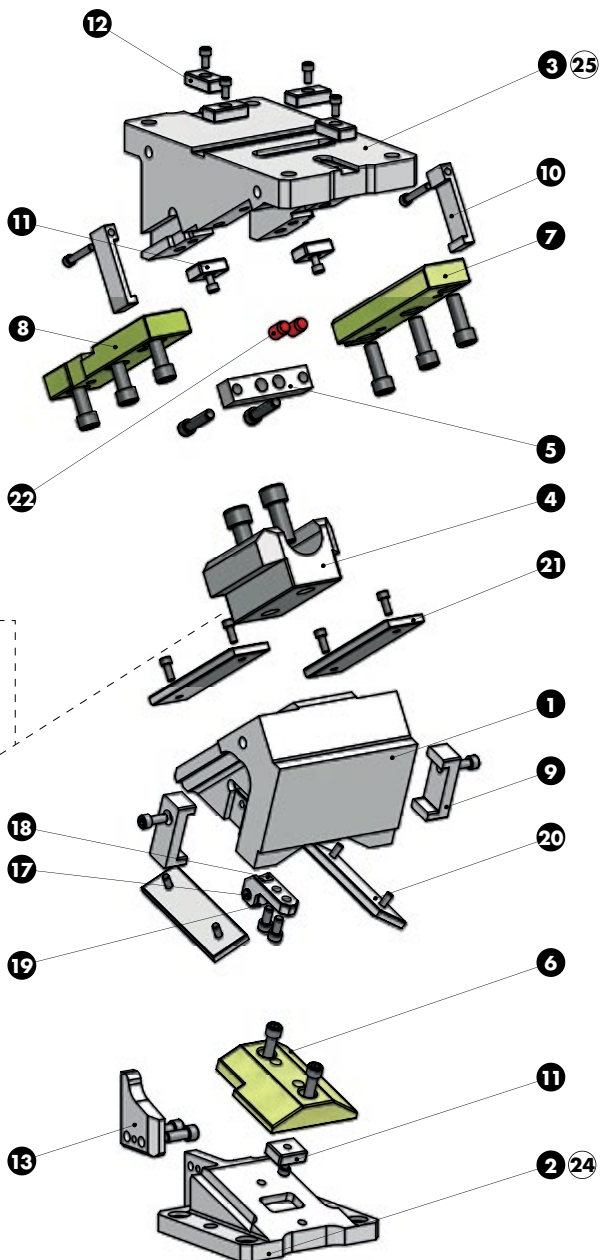
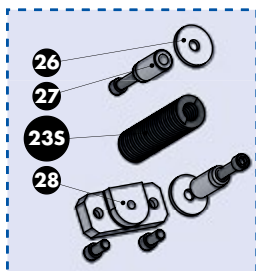


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

RETURN TYPE G

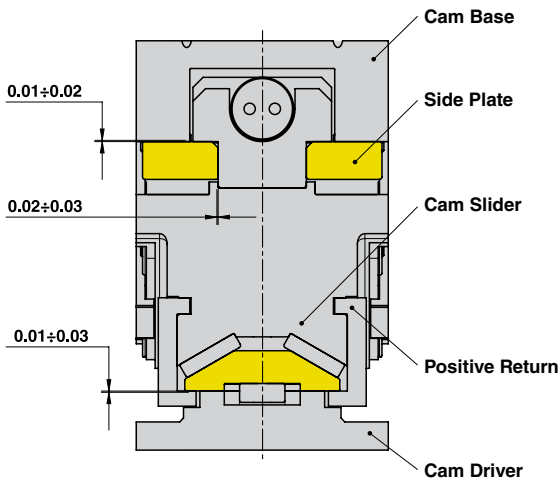


RETURN TYPE S



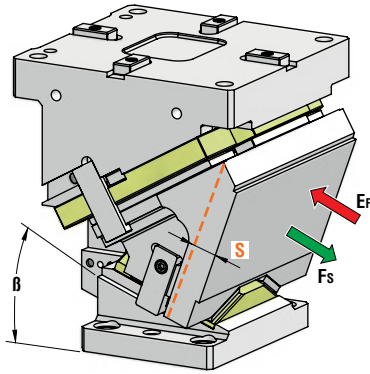
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Spring Guide Block	CK45 + Graphite	1
5	Stopper Plate	CK45	1
6	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
7	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
9	Positive Return	42CrMo4 Nitrided	2
10	Positive Return	CK45	2
11	Key	CK45	3
12	Key	CK45	4
13	Accelerator	CK45	1
14	Spring Stopper Plate	CK45	1
15	Spring Guide Pin	CK45	1
16	Gas Spring Spacer	CK45	1
17	Shaft	CK45	1
18	Roller Bracket	CK45	1
19	Roller	NATR15PP	1
20	Wear Plate VDI 3357	CK45	2
21	Wear Plate VDI 3357	CK45	2
22	Elastomer Cap	Elastomer 92SH	2
23G	Gas Spring - Return Type G	-	1
23S	Spring - Return Type S	-	1
24	Cam Driver Fixing Screws M16x50 DIN 912	-	4
25	Cam Base Fixing Screws M16x60 DIN 912	-	4
26	Washer	CK45	1
27	Spring Guide Pin	CK45	1
28	Spring Stopper Plate	CK45	1

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	F _s	E _f	
CHR300.00	0°	38,57	521	5,09	9,40
CHR300.05	5°	42,59	521	5,09	9,40
CHR300.10	10°	46,67	521	5,09	9,40
CHR300.15	15°	50,88	521	5,09	9,40
CHR300.20	20°	55,30	521	5,09	9,40
CHR300.25	25°	60	521	5,09	9,40
CHR300.30	30°	65,10	521	5,09	9,40
CHR300.35	35°	70,75	521	5,09	9,40
CHR300.40	40°	77,13	521	5,09	9,40
CHR300.45	45°	84,53	521	5,09	9,40
CHR300.50	50°	79,34	521	4,36	8,80
CHR300.55	55°	88,92	521	3,89	7,85
CHR300.60	60°	102	521	3,39	6,85

OPTION CODE

N

Dowel pin hole Ø16 H7 drilled on Cam Base

*Return Type: G = Gas Spring / S = Spring

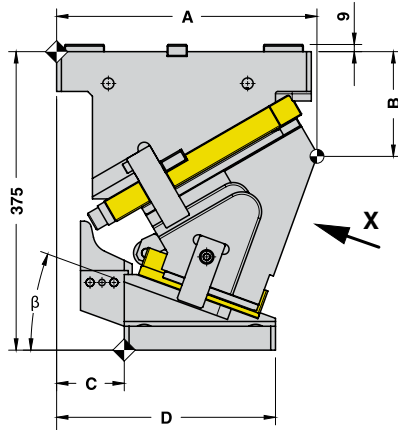
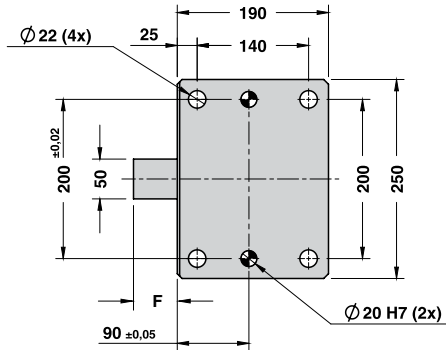
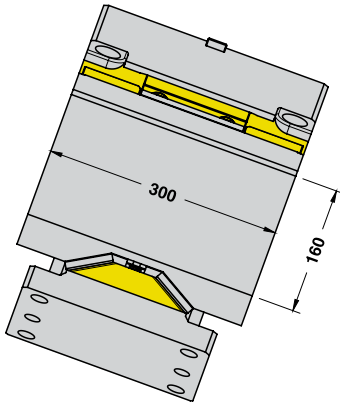


Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHR300	05	G	N N16

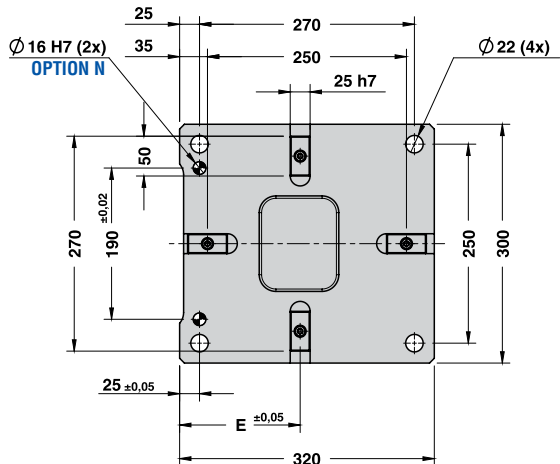
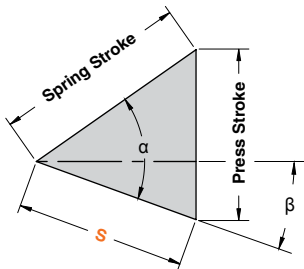
OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHR300.00	0°	313	98	138	328	119,50	55
CHR300.05	5°	317,15	104,18	125	315	127,13	55
CHR300.10	10°	324,13	111,86	115	305	138,04	55
CHR300.15	15°	325,82	121,01	100	290	144,41	55
CHR300.20	20°	327,08	131,59	85	275	151,45	55
CHR300.25	25°	334,71	138,65	75	265	164,01	50
CHR300.30	30°	327,83	146,89	55	245	159,87	45
CHR300.35	35°	334,51	159,17	45	235	169,57	35
CHR300.40	40°	325,46	167,30	25	215	159,82	30
CHR300.45	45°	324,84	179,23	7	197	160,54	30
CHR300.50	50°	306,63	196,84	-35	155	137,58	0
CHR300.55	55°	277,93	229,29	-85	105	120,29	0
CHR300.60	60°	286,45	245,64	-85	105	124,79	0

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

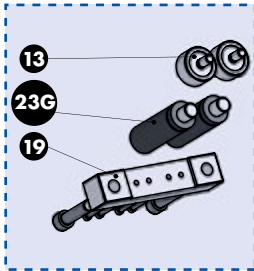


CAM DIAGRAM

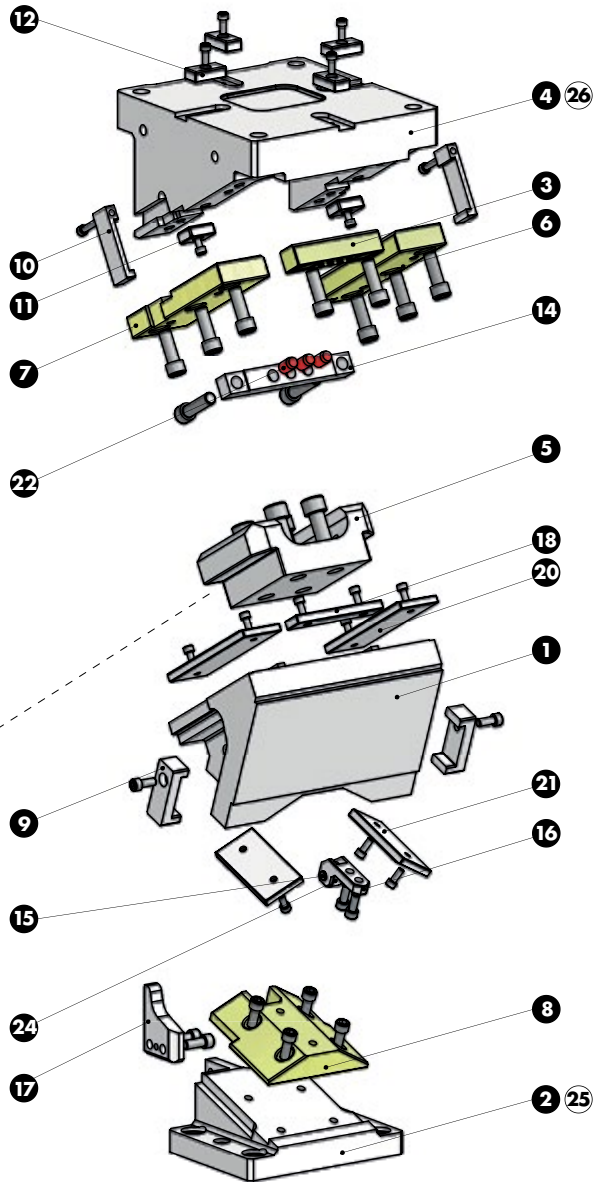
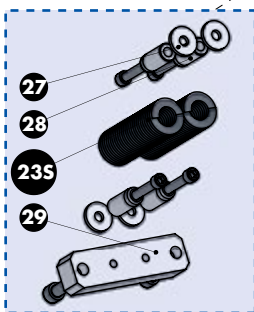


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

RETURN TYPE G

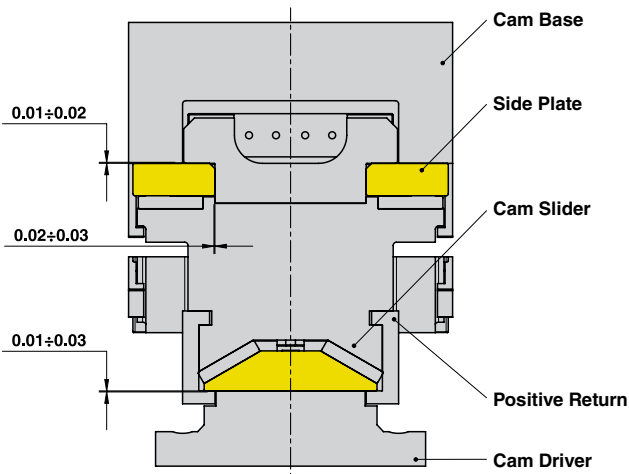


RETURN TYPE S



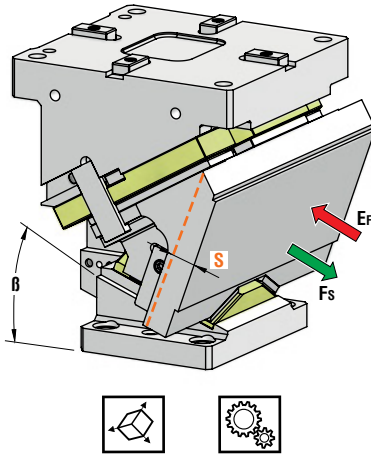
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Driver	GG-25	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Base	GG-25	1
5	Spring Guide Block	CK45 + Graphite	1
6	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
9	Positive Return	42CrMo4 Nitrided	2
10	Positive Return	CK45	2
11	Key	CK45	2
12	Key	CK45	4
13	Spring Guide Pin	CK45	2
14	Stopper Plate	CK45	1
15	Shaft	CK45	1
16	Roller Bracket	CK45	1
17	Accelerator	CK45	1
18	Plate	CK45	1
19	Spring Stopper Plate	CK45	1
20	Wear Plate VDI 3357	CK45	2
21	Wear Plate VDI 3357	CK45	2
22	Elastomer Cap	Elastomer 92SH	3
23G	Gas Spring - Return Type G	-	2
23S	Spring - Return Type S	-	2
24	Roller	NATR15PP	1
25	Cam Driver Fixing Screws M20x65 DIN 912	-	4
26	Cam Base Fixing Screws M20x75 DIN 912	-	4
27	Washer	CK45	2
28	Spring Guide Pin	CK45	2
29	Spring Stopper Plate	CK45	1

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
CHR400.00	0°	38,57	521	5,09	9,40
CHR400.05	5°	42,59	521	5,09	9,40
CHR400.10	10°	46,67	521	5,09	9,40
CHR400.15	15°	50,88	521	5,09	9,40
CHR400.20	20°	55,30	521	5,09	9,40
CHR400.25	25°	60	521	5,09	9,40
CHR400.30	30°	65,10	521	5,09	9,40
CHR400.35	35°	70,75	521	5,09	9,40
CHR400.40	40°	77,13	521	5,09	9,40
CHR400.45	45°	84,53	521	5,09	9,40
CHR400.50	50°	79,34	521	4,36	8,80
CHR400.55	55°	88,92	521	3,89	7,85
CHR400.60	60°	102	521	3,39	6,85

OPTION CODE

N

Dowel pin hole Ø16 H7 drilled on Cam Base

*Return Type: G = Gas Spring / S = Spring

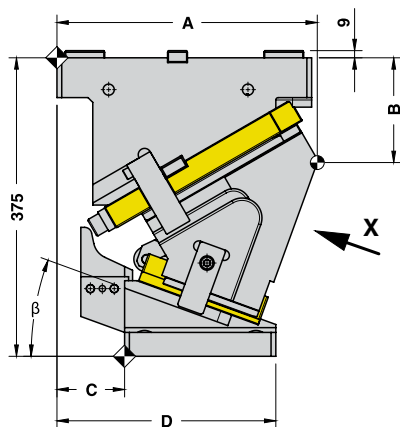
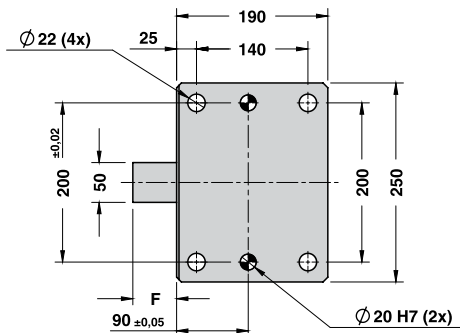
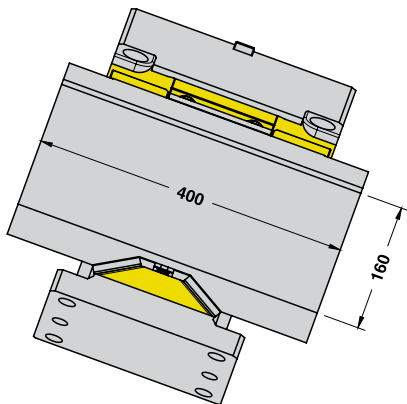


				OPTION CODE
Art.	Work Angle = 5°	Return Type*		N
CHR400	05	G		N16

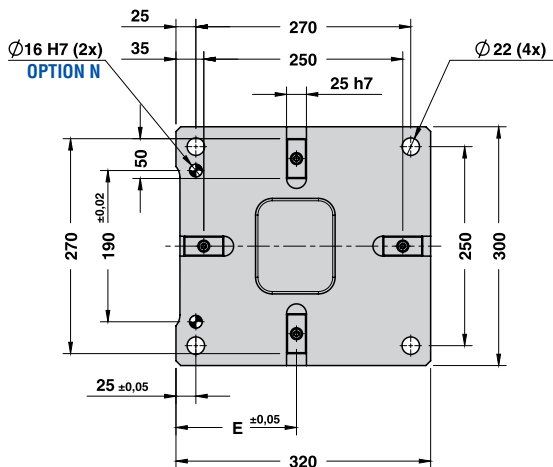
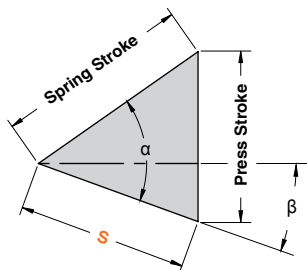
OMCR CODE	Work Angle	Overall Dimensions (mm)					
		β	A	B	C	D	E
CHR400.00	0°	313	98	138	328	119,50	55
CHR400.05	5°	317,15	104,18	125	315	127,13	55
CHR400.10	10°	324,13	111,86	115	305	138,04	55
CHR400.15	15°	325,82	121,01	100	290	144,41	55
CHR400.20	20°	327,08	131,59	85	275	151,45	55
CHR400.25	25°	334,71	138,65	75	265	164,01	50
CHR400.30	30°	327,83	146,89	55	245	159,87	45
CHR400.35	35°	334,51	159,17	45	235	169,57	35
CHR400.40	40°	325,46	167,30	25	215	159,82	30
CHR400.45	45°	324,84	179,23	7	197	160,54	30
CHR400.50	50°	306,63	196,84	-35	155	137,58	0
CHR400.55	55°	277,93	229,29	-85	105	120,29	0
CHR400.60	60°	286,45	245,64	-85	105	124,79	0

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

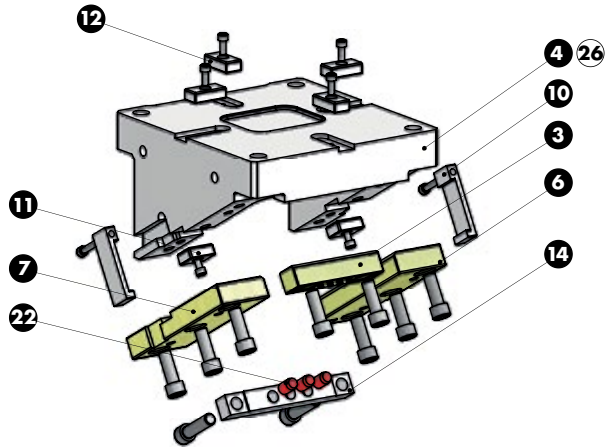
X VIEW



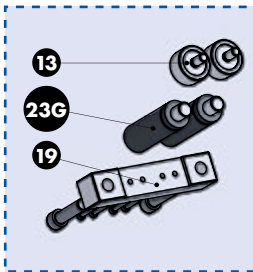
CAM DIAGRAM



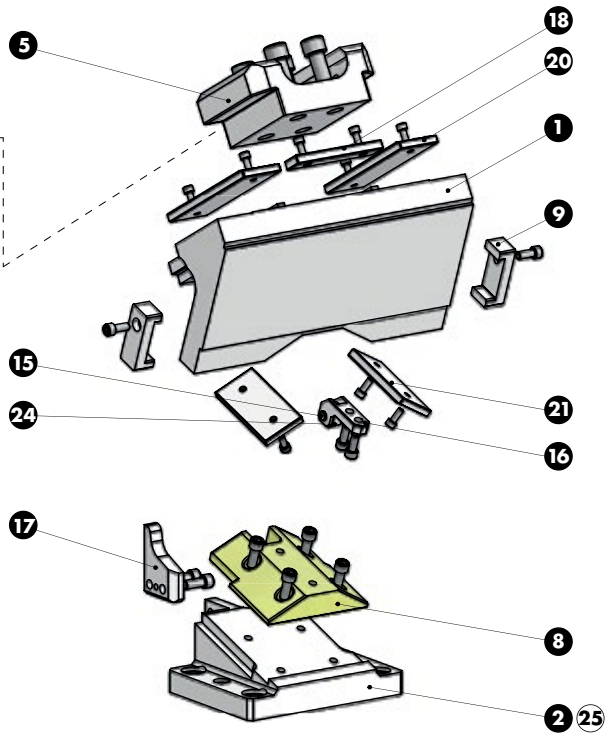
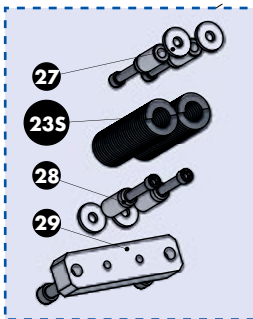
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



RETURN TYPE G

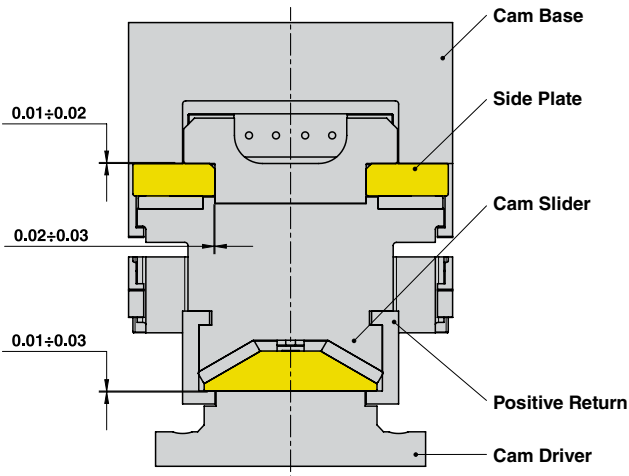


RETURN TYPE S



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Driver	GG-25	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Base	GG-25	1
5	Spring Guide Block	CK45 + Graphite	1
6	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
9	Positive Return	42CrMo4 Nitrided	2
10	Positive Return	CK45	2
11	Key	CK45	2
12	Key	CK45	4
13	Spring Guide Pin	CK45	2
14	Stopper Plate	CK45	1
15	Shaft	CK45	1
16	Roller Bracket	CK45	1
17	Accelerator	CK45	1
18	Plate	CK45	1
19	Spring Stopper Plate	CK45	1
20	Wear Plate VDI 3357	CK45	2
21	Wear Plate VDI 3357	CK45	2
22	Elastomer Cap	Elastomer 92SH	3
23G	Gas Spring - Return Type G	-	2
23S	Spring - Return Type S	-	2
24	Roller	NATR15PP	1
25	Cam Driver Fixing Screws M20x65 DIN 912	-	4
26	Cam Base Fixing Screws M20x75 DIN 912	-	4
27	Washer	CK45	2
28	Spring Guide Pin	CK45	2
29	Spring Stopper Plate	CK45	1

Cam Units CHR



OMCR®

STANDARD DIE COMPONENTS



EUROPEAN PATENT EP2241387

**CAM UNITS CHV
SCHIEBER CHV
CAMME CHV**





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

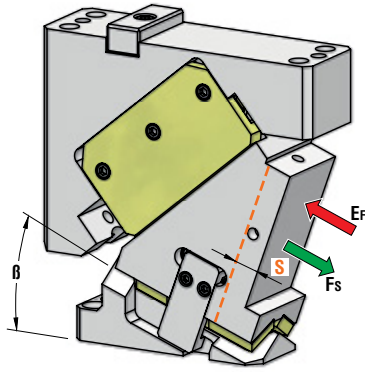
EUROPEAN PATENT EP2241387	OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
		β				F _s	F _F
	CHV060	0°÷75° (5° steps)	60	210	60x100	136÷143	5,10÷6,20
CHV085	0°÷75° (5° steps)	85	225	85x120	229÷293	7,10÷12	
CHV110	0°÷75° (5° steps)	110	275	110x160	357÷407	6,20÷16,80	
CHV150	0°÷75° (5° steps)	150	300	150x160	421÷584	17,30÷20,80	
CHV180	0°÷75° (5° steps)	180	300	180x160	474÷598	17,10÷20,50	
CHV220	0°÷75° (5° steps)	220	300	220x160	635÷732	16,60÷46,20	
CHV260	0°÷75° (5° steps)	260	300	260x160	536÷767	16,60÷46,20	
CHV330	0°÷75° (5° steps)	330	375	330x180	1005÷1020	46,50÷94,90	
CHV400	0°÷75° (5° steps)	400	375	400x180	1052÷1055	48÷87,10	
CHV500	0°÷75° (5° steps)	500	375	500x180	1155	64,5÷87,0	
CHV600	0°÷75° (5° steps)	600	400	600x200	1202	84,2÷98,2	



Leading edge five axis machines



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Gas Spring
CHV060.00	0°	19,28	136	5,1
CHV060.05	5°	21,29	137	5,1
CHV060.10	10°	21,54	138	5,4
CHV060.15	15°	23,79	139	5,4
CHV060.20	20°	24,46	140	5,7
CHV060.25	25°	27,12	141	5,7
CHV060.30	30°	30	142	5,7
CHV060.35	35°	31,72	143	5,9
CHV060.40	40°	35,49	143	5,9
CHV060.45	45°	38,45	143	6,0
CHV060.50	50°	43,86	142	6,0
CHV060.55	55°	49,15	142	6,1
CHV060.60	60°	57,96	142	6,1
CHV060.65	65°	68,57	142	6,2
CHV060.70	70°	70,60	141	6,2
CHV060.75	75°	76,10	141	6,2

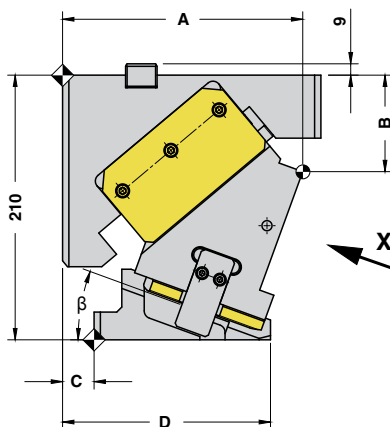
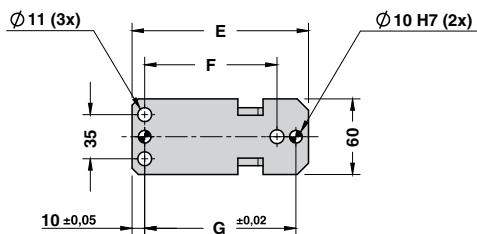
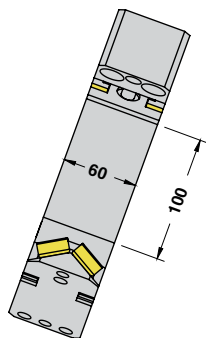
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°
		CHV060	05

OMCR CODE	Work Angle	Overall Dimensions (mm)										
		β	A	B	C	D	E	F	G	H	I	J
CHV060.00	0°	175	55	25	180	155	105	120	180	175	62,5	205
CHV060.05	5°	179,26	57,37	25	175	150	105	120	180	175	62,5	205
CHV060.10	10°	183,30	60,10	25	170	145	105	120	180	175	62,5	205
CHV060.15	15°	189,68	63,51	25	165	140	105	120	180	175	62,5	205
CHV060.20	20°	190,59	76,57	25	165	140	105	120	180	175	62,5	205
CHV060.25	25°	193,79	80,25	25	150	125	80	95	180	175	62,5	205
CHV060.30	30°	196,65	84,20	25	150	125	80	95	180	175	62,5	205
CHV060.35	35°	199,16	88,38	25	140	115	80	95	180	175	62,5	205
CHV060.40	40°	198,08	96,60	10	120	110	65	80	195	190	62,5	220
CHV060.45	45°	210,96	104,39	40	145	105	65	80	210	205	92,5	235
CHV060.50	50°	211,71	113,44	10	115	105	50	65	195	190	77,5	220
CHV060.55	55°	212,11	117,54	10	115	105	50	70	195	190	77,5	220
CHV060.60	60°	203,48	126,65	10	102	92	50	65	195	190	77,5	220
CHV060.65	65°	202,75	129,98	10	95	85	50	65	195	190	77,5	220
CHV060.70	70°	205,54	146,39	10	95	85	20	35	195	190	62,5	220
CHV060.75	75°	204,77	151,21	10	90	80	20	35	210	205	62,5	235

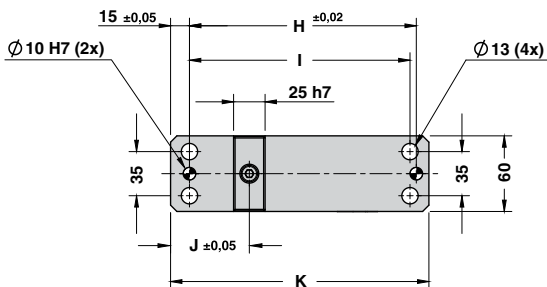
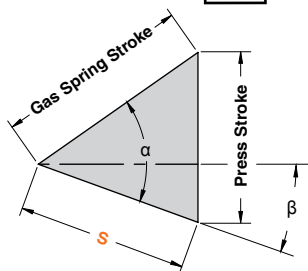


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

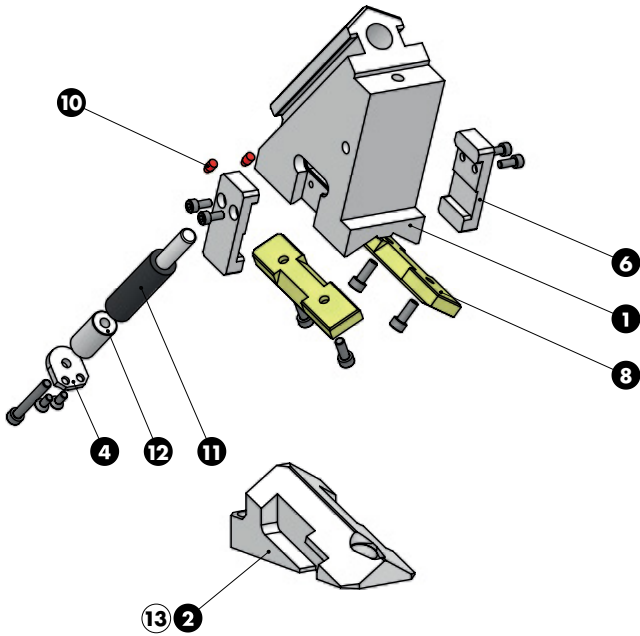
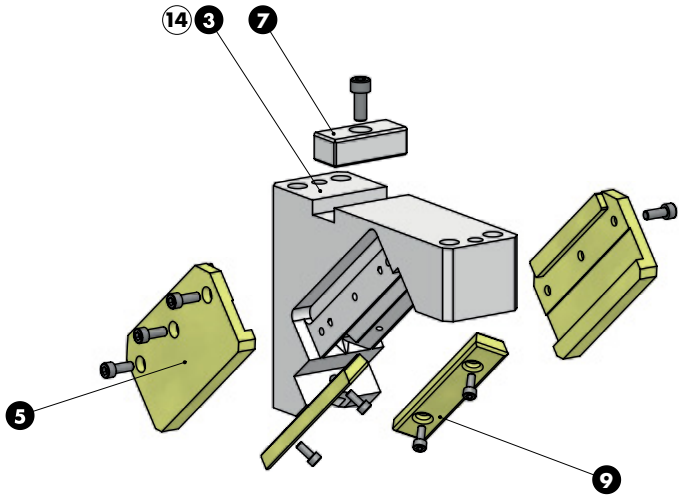


CAM DIAGRAM





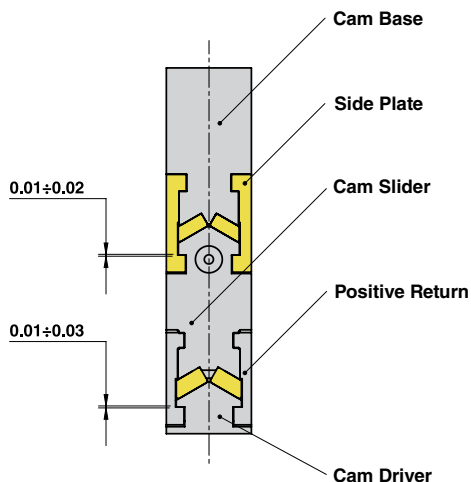
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

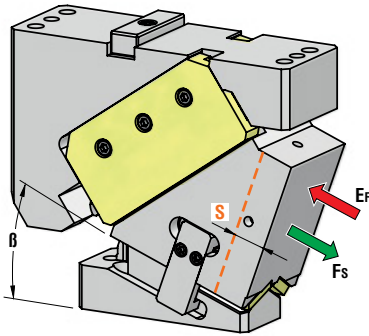


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	42CrMo4	1
2	Cam Driver	42CrMo4	1
3	Cam Base	42CrMo4	1
4	Lock Plate	42CrMo4	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Positive Return	42CrMo4 Nitrided	2
7	Key	CK45	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Elastomer Cap	Elastomer 92SH	2
11	Gas Spring	-	1
12	Spring Spacer	CK45	1
13	Cam Driver Fixing Screws M10x30 DIN 912	-	3
14	Cam Base Fixing Screws M12x60 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Gas Spring
CHV085.00	0°	30,85	230	10,0
CHV085.05	5°	34,07	230	10,0
CHV085.10	10°	34,46	230	10,5
CHV085.15	15°	38,07	230	10,5
CHV085.20	20°	41,84	230	10,5
CHV085.25	25°	43,38	229	11,0
CHV085.30	30°	48	229	11,0
CHV085.35	35°	50,75	229	11,4
CHV085.40	40°	56,79	237	11,4
CHV085.45	45°	42,30	245	11,5
CHV085.50	50°	48,24	253	11,5
CHV085.55	55°	54,06	261	11,8
CHV085.60	60°	63,75	269	11,8
CHV085.65	65°	75,42	277	11,9
CHV085.70	70°	95,02	285	11,9
CHV085.75	75°	95,13	293	12,0

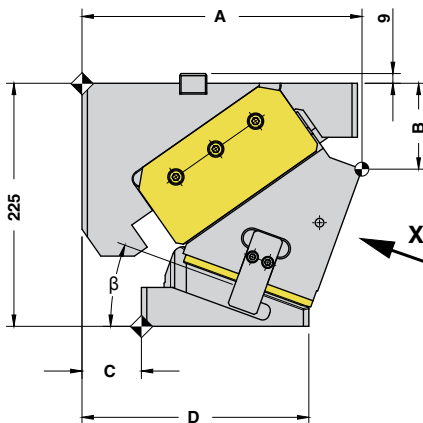
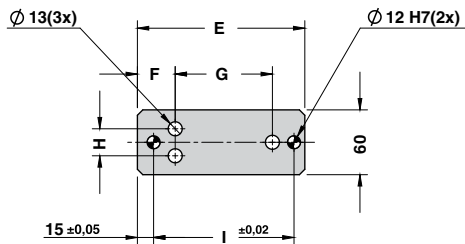
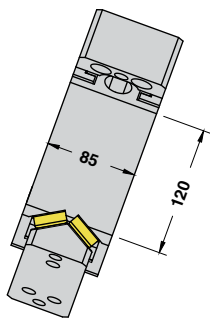
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°
		CHV085	05

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		B	A	B	C	D	E	F	G	H	I	J	K
CHV085.00	0°	238	60	55	230	175	35	90	25	130	225	82	255
CHV085.05	5°	243,28	64,18	55	225	170	35	90	25	130	225	88	255
CHV085.10	10°	247,73	73,75	55	215	160	35	90	25	130	225	88	255
CHV085.15	15°	252,64	78,77	55	210	155	35	90	25	130	225	97	255
CHV085.20	20°	259,24	79,51	55	210	155	35	90	25	130	225	103	255
CHV085.25	25°	262,37	90,08	40	195	155	35	90	25	130	255	103	285
CHV085.30	30°	272,11	87,71	40	195	155	35	90	25	130	255	112	285
CHV085.35	35°	277,45	94,87	40	195	155	35	90	25	130	255	112	285
CHV085.40	40°	282,59	102,49	40	195	155	35	90	25	130	255	122,5	285
CHV085.45	45°	248,94	114,09	0	150	150	35	70	25	110	235	92	265
CHV085.50	50°	247,12	127,38	0	135	135	35	70	25	110	235	96,5	265
CHV085.55	55°	263	126,74	0	135	135	35	70	25	110	235	96,5	265
CHV085.60	60°	267,02	136,11	0	135	135	35	70	25	110	235	104	265
CHV085.65	65°	257,06	147,15	0	126	126	35	60	25	100	235	104	265
CHV085.70	70°	248,86	160,81	5	114	109	15	40	35	60	245	82,5	275
CHV085.75	75°	251,61	181,07	5	114	109	15	40	35	60	245	82,5	275

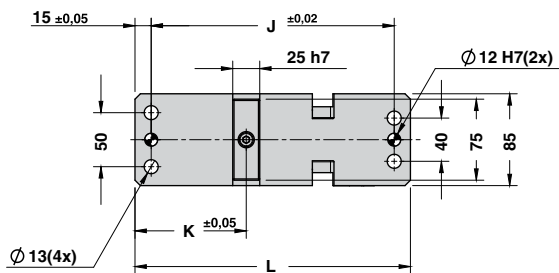
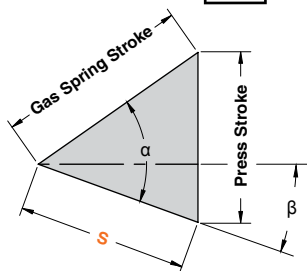


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

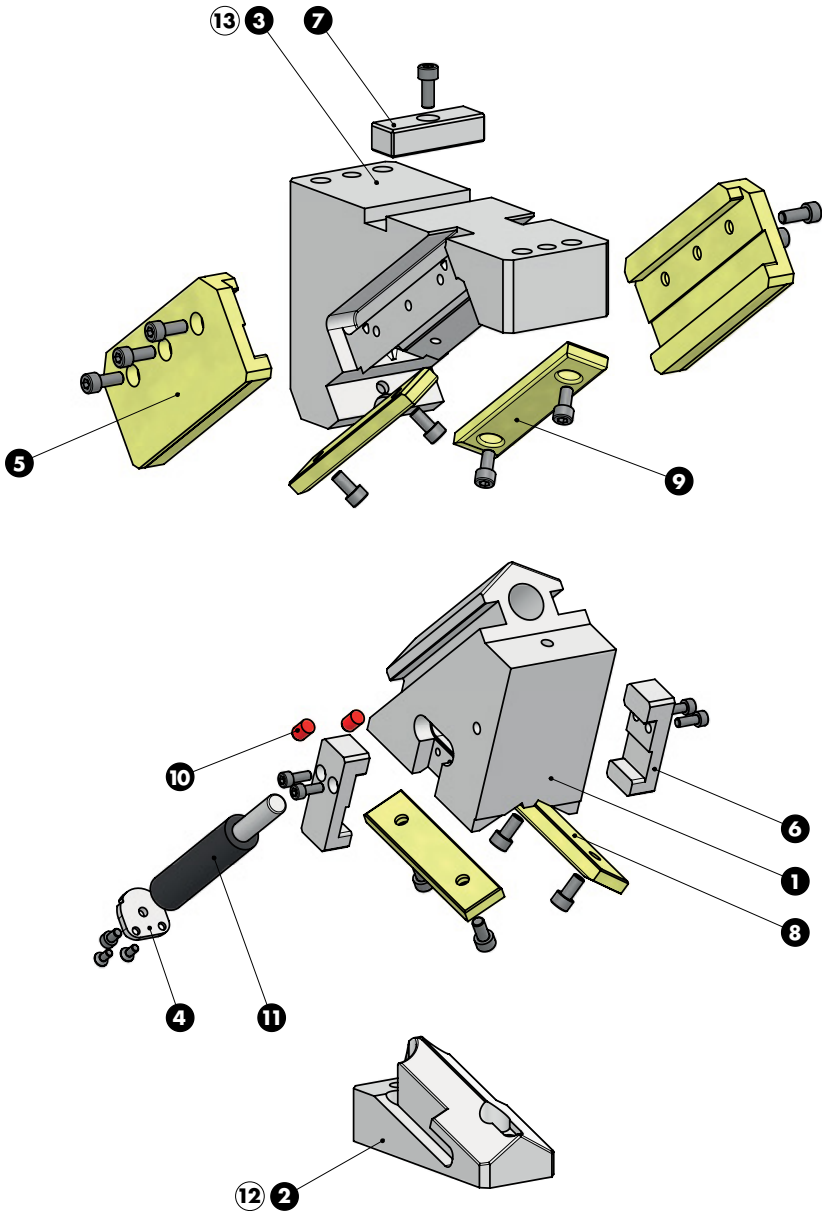


CAM DIAGRAM





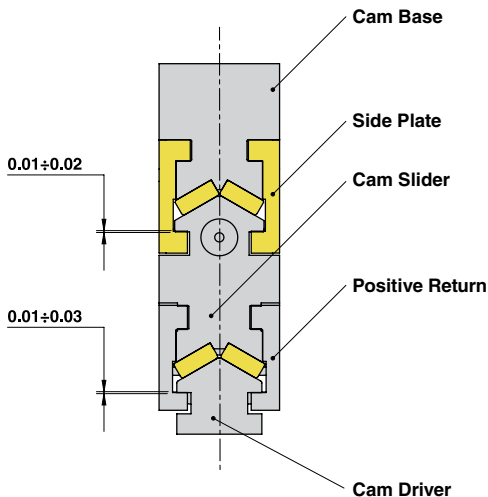
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

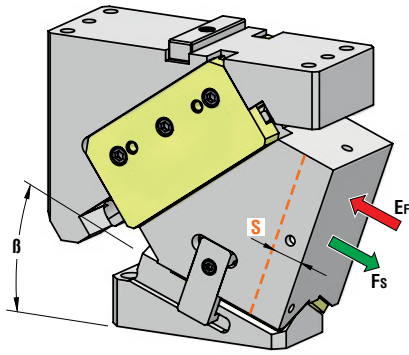


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	42CrMo4	1
2	Cam Driver	42CrMo4	1
3	Cam Base	42CrMo4	1
4	Lock Plate	42CrMo4	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Positive Return	42CrMo4 Nitrided	2
7	Key	CK45	1
8	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
9	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
10	Elastomer Cap	Elastomer 92SH	2
11	Gas Spring	-	1
12	Cam Driver Fixing Screws M12x35 DIN 912	-	3
13	Cam Base Fixing Screws M12x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Gas Spring
CHV110.00	0°	30,85	357	11,4
CHV110.05	5°	34,07	366	11,4
CHV110.10	10°	34,46	369	12,2
CHV110.15	15°	38,07	372	12,2
CHV110.20	20°	41,84	375	12,2
CHV110.25	25°	43,38	378	12,8
CHV110.30	30°	48	381	12,8
CHV110.35	35°	50,75	384	13,4
CHV110.40	40°	56,79	387	13,4
CHV110.45	45°	61,52	390	13,6
CHV110.50	50°	48,24	393	13,6
CHV110.55	55°	54,06	396	13,6
CHV110.60	60°	63,75	399	14,0
CHV110.65	65°	75,42	402	14,3
CHV110.70	70°	95,02	405	14,4
CHV110.75	75°	95,13	407	14,4

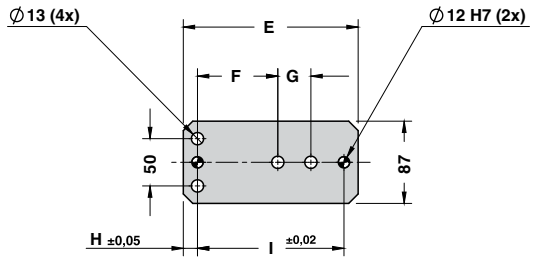
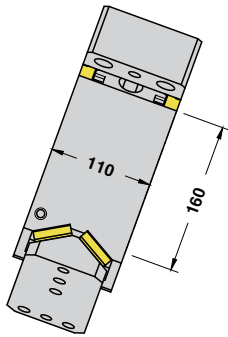
STOCK	ORDER EXAMPLE	Art.	Work Angle = 5°
		CHV110	05

OMCR CODE	Work Angle	Overall Dimensions (mm)												
		β	A	B	C	D	E	F	G	H	I	J	K	L
CHV110.00	0°	278	70	60	270	210	85	35	15	155	15	255	97,5	290
CHV110.05	5°	285,45	74,28	60	265	205	85	35	15	155	15	255	117	290
CHV110.10	10°	292,94	79,21	60	255	195	85	35	15	155	15	255	124,5	290
CHV110.15	15°	300,41	84,79	60	250	190	85	35	15	155	15	255	133,5	290
CHV110.20	20°	307,80	91,02	60	245	185	85	35	15	155	15	255	141	290
CHV110.25	25°	305,05	97,89	50	228	178	40	45	15	135	20	260	140	300
CHV110.30	30°	309,61	109,72	50	222	172	40	45	15	135	20	260	147,5	300
CHV110.35	35°	316,06	117,58	50	217	167	40	45	15	135	20	260	155	300
CHV110.40	40°	322,23	126	50	213	163	40	45	15	135	20	260	162,5	300
CHV110.45	45°	311,62	131,41	10	193	183	55	45	20	120	15	265	148,5	295
CHV110.50	50°	309,74	147,60	10	182	172	55	45	20	120	15	265	154,5	295
CHV110.55	55°	302,27	165,76	10	167	157	55	45	20	120	15	265	175,5	295
CHV110.60	60°	305,96	174,61	10	165	155	55	45	20	120	15	265	175,5	295
CHV110.65	65°	285,71	195,11	0	137	137	55	25	20	100	15	265	155,5	295
CHV110.70	70°	288,18	208,33	0	135	135	55	25	20	100	15	265	155,5	295
CHV110.75	75°	290,36	211,76	0	134	134	55	25	20	100	15	275	155,5	310

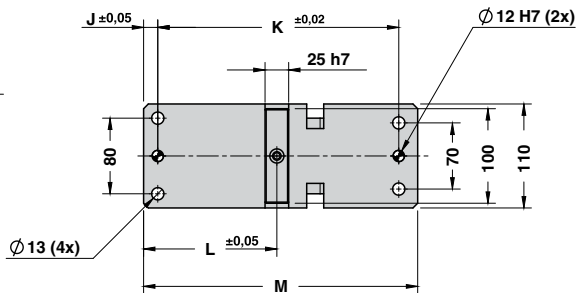
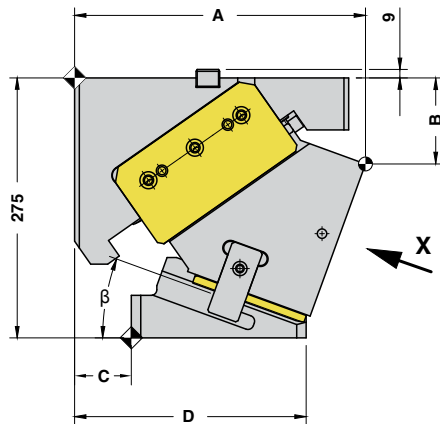
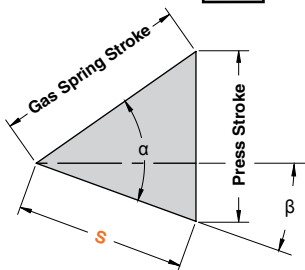


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

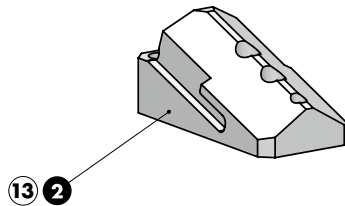
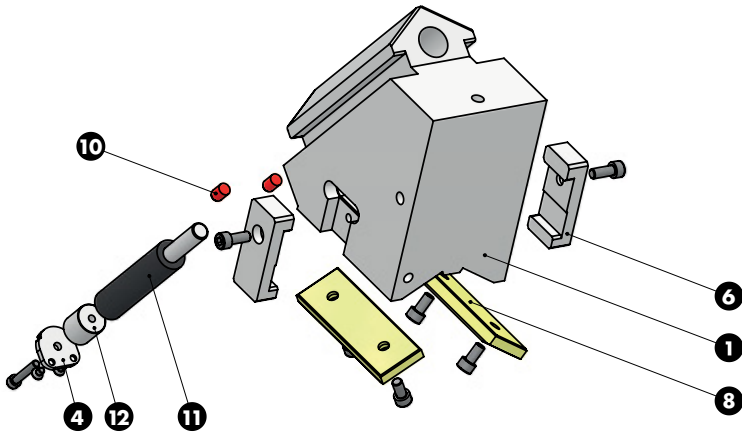
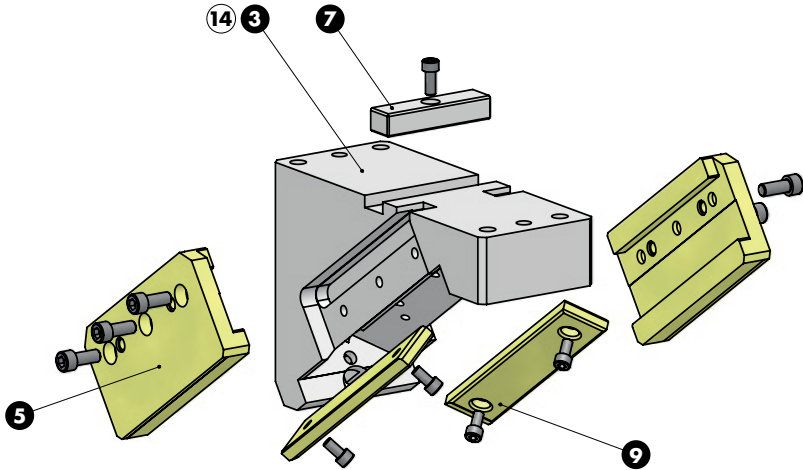


CAM DIAGRAM





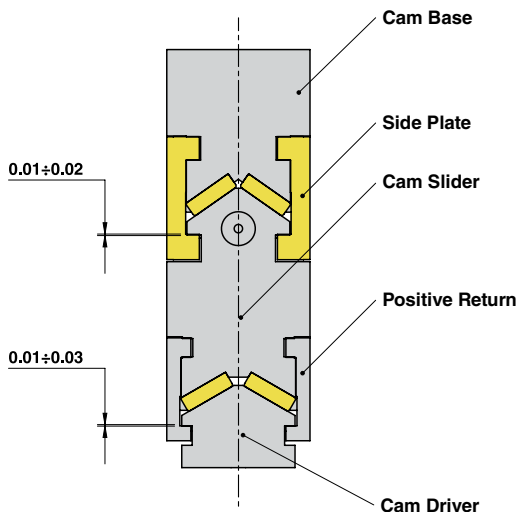
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

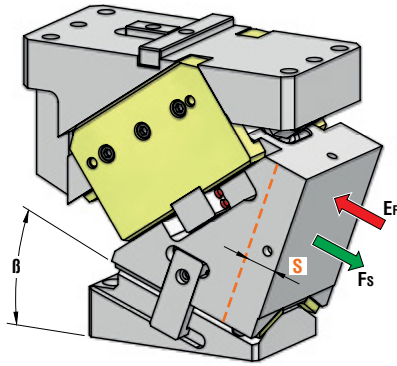


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	42CrMo4	1
2	Cam Driver	42CrMo4	1
3	Cam Base	42CrMo4	1
4	Lock Plate	42CrMo4	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Positive Return	42CrMo4 Nitrided	2
7	Key	CK45	1
8	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
9	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
10	Elastomer Cap	Elastomer 92SH	2
11	Gas Spring	-	1
12	Spring Spacer	CK45	1
13	Cam Driver Fixing Screws M12x45 DIN 912	-	4
14	Cam Base Fixing Screws M12x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)
				Ef Gas Spring
CHV150.00	0°	32,14	421	16,4
CHV150.05	5°	35,49	435	16,4
CHV150.10	10°	35,90	448	17,5
CHV150.15	15°	39,65	462	17,5
CHV150.20	20°	43,59	476	17,5
CHV150.25	25°	45,19	489	18,4
CHV150.30	30°	50	503	18,4
CHV150.35	35°	52,86	517	19,2
CHV150.40	40°	59,16	528	19,2
CHV150.45	45°	64,09	540	19,8
CHV150.50	50°	73,10	551	19,8
CHV150.55	55°	81,92	558	20,3
CHV150.60	60°	96,59	565	20,3
CHV150.65	65°	91,42	571	20,5
CHV150.70	70°	84,73	578	20,7
CHV150.75	75°	76,10	584	20,6



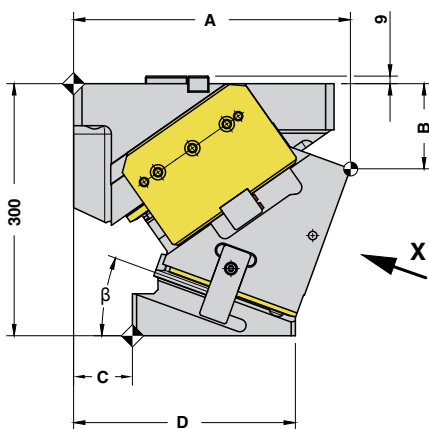
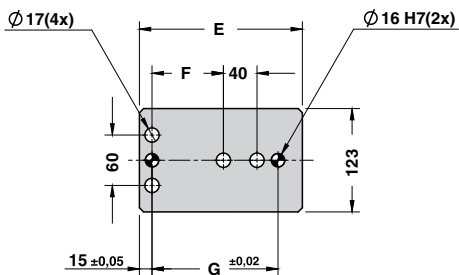
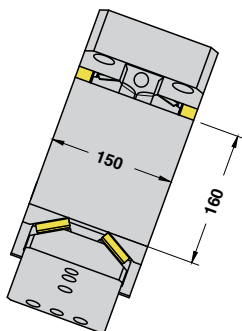
Art.	Work Angle = 5°
CHV150	05

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		B	A	B	C	D	E	F	G	H	I	J	K
CHV150.00	0°	298	65	70	290	220	85	150	25	270	54	117	310
CHV150.05	5°	307,20	69,35	70	280	210	85	150	25	270	61,5	124,5	310
CHV150.10	10°	313,81	89,28	70	270	200	85	150	25	270	69	132	310
CHV150.15	15°	321,70	94,96	70	265	195	85	150	25	270	78	141	310
CHV150.20	20°	329,51	101,32	70	264	194	85	150	25	270	85,5	148,5	310
CHV150.25	25°	342,93	117,42	60	262	202	105	170	15	320	104,5	167,5	350
CHV150.30	30°	352,11	125,39	60	259	199	105	170	15	320	112	175	350
CHV150.35	35°	364,66	130,30	60	261	201	105	170	15	320	119,5	182,5	350
CHV150.40	40°	371,87	144,51	60	257	197	105	170	15	320	127	190	350
CHV150.45	45°	325,76	152,27	20	202	182	85	150	15	310	73	136	340
CHV150.50	50°	332,72	168,31	20	199	179	85	150	15	310	79	142	340
CHV150.55	55°	347,32	179,21	20	206	186	85	150	15	310	64,5	127,5	340
CHV150.60	60°	353,59	197,11	20	203	183	85	150	15	310	71,5	134,5	340
CHV150.65	65°	359,15	205,52	20	203	183	85	150	15	310	71,5	134,5	340
CHV150.70	70°	334,26	226,10	0	168	168	70	135	15	310	71,5	134,5	340
CHV150.75	75°	338,15	234,94	0	167	167	70	135	15	310	71,5	134,5	340

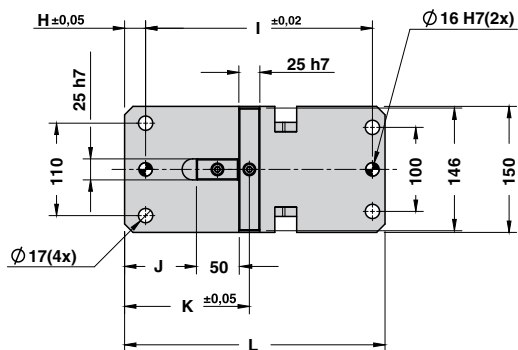
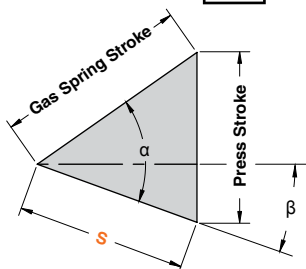


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

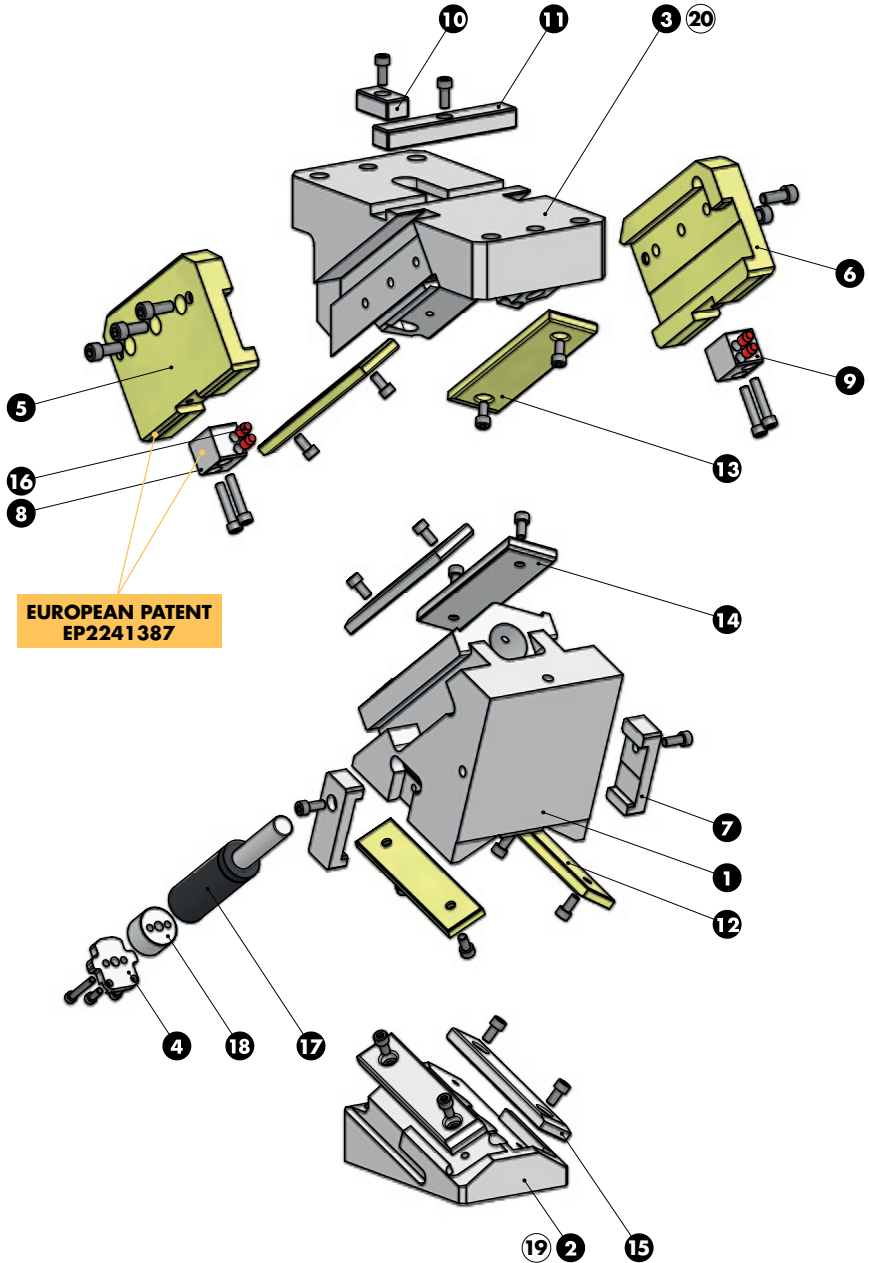


CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

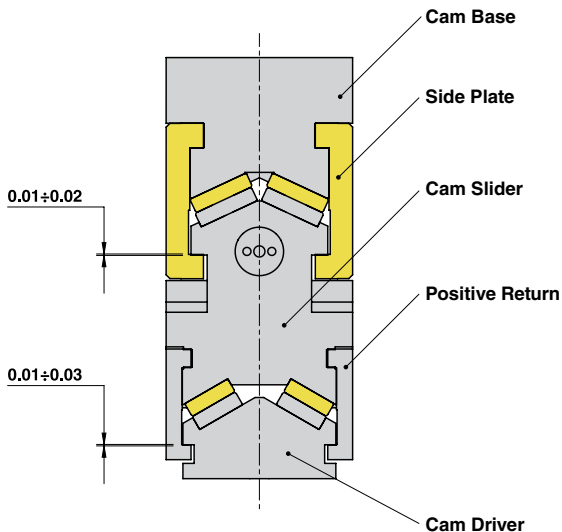


EUROPEAN PATENT
EP2241387



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

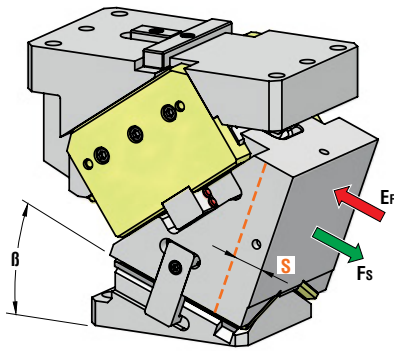


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
7	Positive Return	42CrMo4 Nitrided	2
8	Slide Reaction L	CK45	1
9	Slide Reaction R	CK45	1
10	Key	CK45	1
11	Key	CK45	1
12	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
13	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
14	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
15	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
16	Elastomer Cap	Elastomer 92SH	4
17	Gas Spring	-	1
18	Gas Spring Spacer	CK45	1
19	Cam Driver Fixing Screws M16x55 DIN 912	-	4
20	Cam Base Fixing Screws M16x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Gas Spring Ef
CHV180.00	0°	32,14	474	16,2
CHV180.05	5°	35,49	488	16,2
CHV180.10	10°	35,90	503	17,3
CHV180.15	15°	39,65	518	17,3
CHV180.20	20°	43,59	533	17,3
CHV180.25	25°	45,19	542	18,2
CHV180.30	30°	50	543	18,2
CHV180.35	35°	52,86	543	18,9
CHV180.40	40°	59,16	550	18,9
CHV180.45	45°	64,09	557	19,5
CHV180.50	50°	73,10	564	19,5
CHV180.55	55°	81,92	571	20,0
CHV180.60	60°	96,59	578	20,0
CHV180.65	65°	91,42	584	20,2
CHV180.70	70°	84,73	591	20,4
CHV180.75	75°	76,10	598	20,3



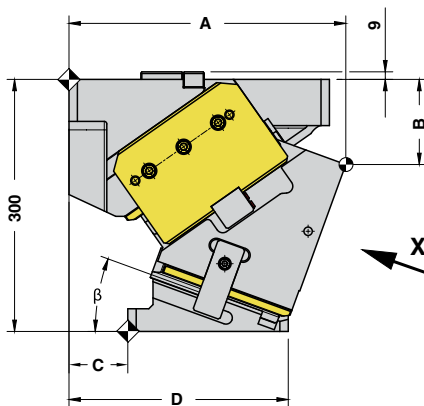
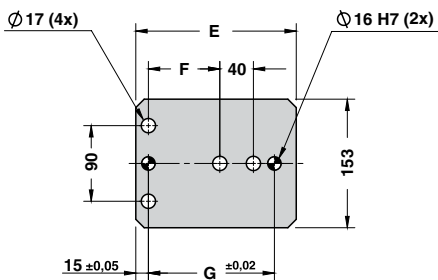
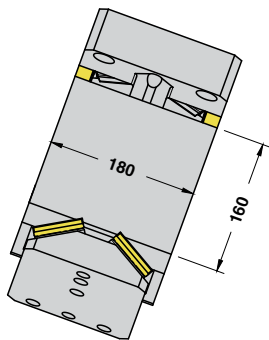
Art.	Work Angle = 5°
CHV180	05

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		B	A	B	C	D	E	F	G	H	I	J	K
CHV180.00	0°	298	65	70	290	220	85	150	25	270	54	117	310
CHV180.05	5°	307,20	69,35	70	280	210	85	150	25	270	61,5	124,5	310
CHV180.10	10°	313,81	89,28	70	270	200	85	150	25	270	69	132	310
CHV180.15	15°	321,70	94,96	70	265	195	85	150	25	270	78	141	310
CHV180.20	20°	329,51	101,32	70	261	191	85	150	25	270	85,5	148,5	310
CHV180.25	25°	342,93	117,42	60	259	199	105	170	15	320	104,5	167,5	350
CHV180.30	30°	352,11	125,39	60	259	199	105	170	15	320	112	175	350
CHV180.35	35°	364,66	130,30	60	261	201	105	170	15	320	119,5	182,5	350
CHV180.40	40°	371,87	144,51	60	257	197	105	170	15	320	127	190	350
CHV180.45	45°	325,76	152,27	20	202	182	85	150	15	310	73	136	340
CHV180.50	50°	332,72	168,31	20	199	179	85	150	15	310	79	142	340
CHV180.55	55°	347,32	179,21	20	206	186	85	150	15	310	64,5	127,5	340
CHV180.60	60°	353,59	197,11	20	202	182	85	150	15	310	71,5	134,5	340
CHV180.65	65°	359,15	205,52	20	201	181	85	150	15	310	71,5	134,5	340
CHV180.70	70°	334,26	226,10	0	168	168	70	135	15	310	71,5	134,5	340
CHV180.75	75°	338,15	234,94	0	172	172	70	135	15	310	71,5	134,5	340

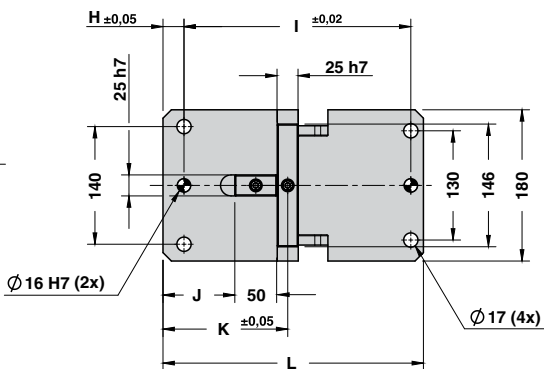
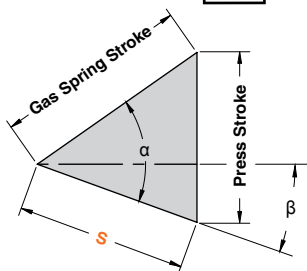


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

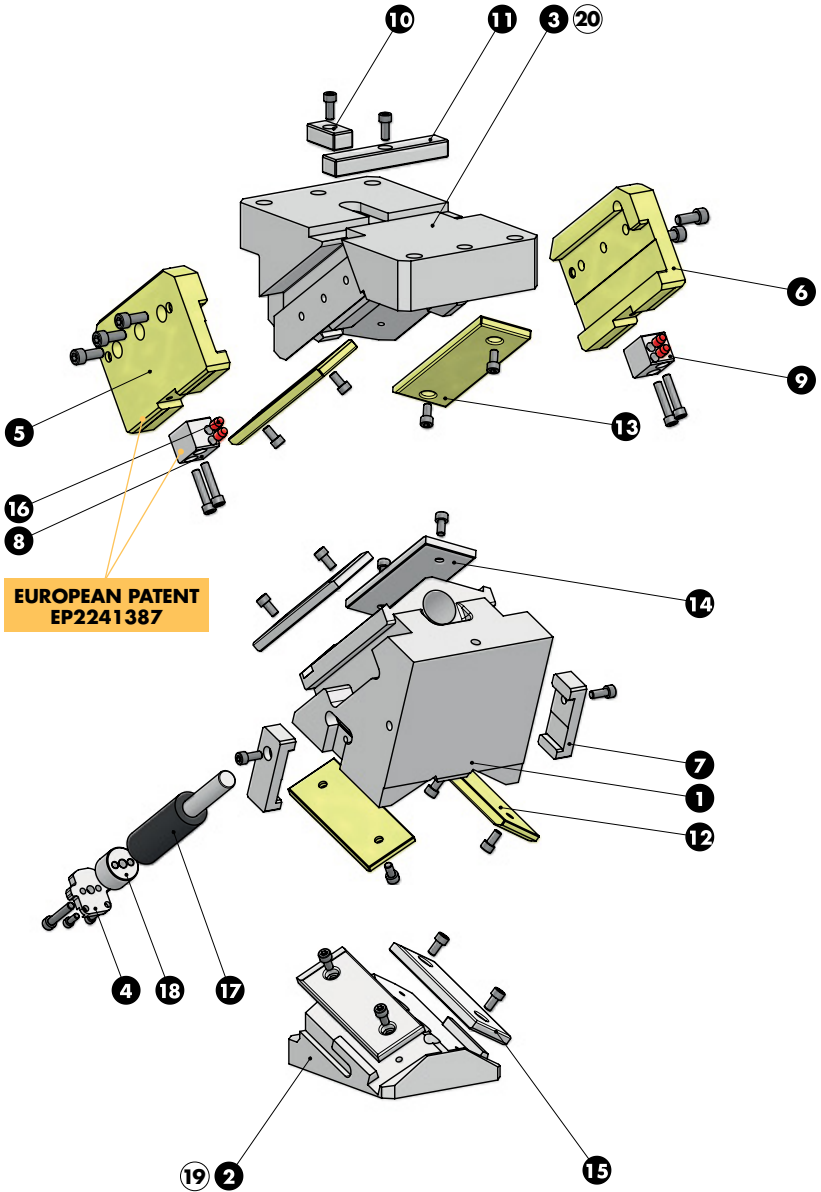


CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

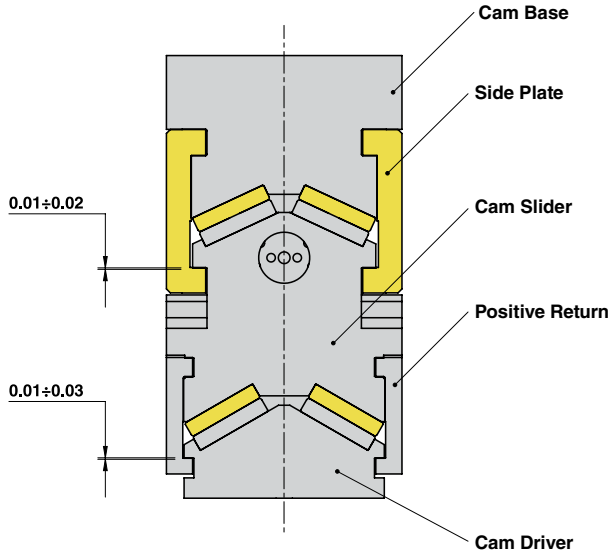


EUROPEAN PATENT
EP2241387



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

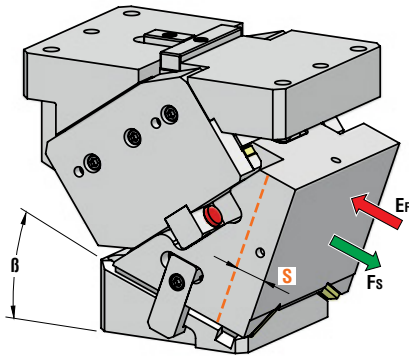


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
6	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
7	Positive Return	42CrMo4 Nitrided	2
8	Slide Reaction L	CK45	1
9	Slide Reaction R	CK45	1
10	Key	CK45	1
11	Key	CK45	1
12	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
13	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
14	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
15	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
16	Elastomer Cap	Elastomer 92SH	4
17	Gas Spring	-	1
18	Spring Spacer	CK45	1
19	Cam Driver Fixing Screws M16x55 DIN 912	-	4
20	Cam Base Fixing Screws M16x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Gas Spring
CHV220.00	0°	32,14	635	18,8
CHV220.05	5°	35,49	648	19,3
CHV220.10	10°	35,90	661	20,1
CHV220.15	15°	39,65	674	20,9
CHV220.20	20°	43,59	687	21,8
CHV220.25	25°	45,19	700	22,7
CHV220.30	30°	50	714	24,1
CHV220.35	35°	52,86	727	24,8
CHV220.40	40°	59,16	727	26,8
CHV220.45	45°	64,09	728	27,5
CHV220.50	50°	73,10	729	30,4
CHV220.55	55°	81,92	729	31,1
CHV220.60	60°	96,59	730	35,3
CHV220.65	65°	91,42	730	37,1
CHV220.70	70°	100,78	731	43,9
CHV220.75	75°	95,13	732	44,5



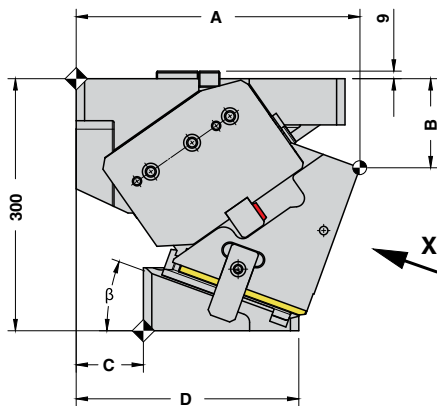
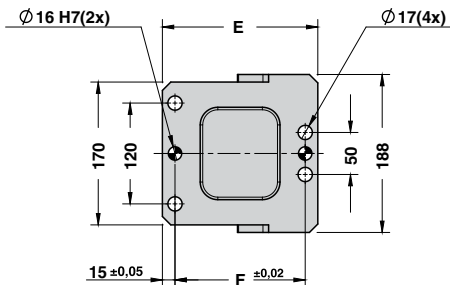
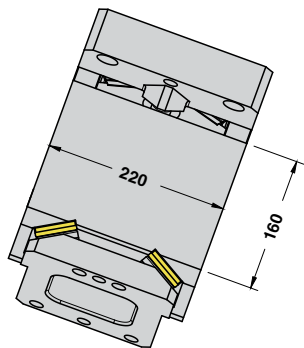
Art.	Work Angle = 5°
CHV220	05

OMCR CODE	Work Angle	Overall Dimensions (mm)										
		β	A	B	C	D	E	F	G	H	I	J
CHV220.00	0°	308	60	80	295	215	155	25	280	64	127	320
CHV220.05	5°	317,63	64,37	80	290	210	155	25	280	71,5	134,5	320
CHV220.10	10°	323,81	89,28	80	280	200	155	25	280	79	142	320
CHV220.15	15°	331,70	94,96	80	270	190	155	25	280	88	151	320
CHV220.20	20°	337,80	106,02	80	265	185	155	25	280	95,5	158,5	320
CHV220.25	25°	345,05	112,89	60	255	195	150	15	330	104,5	167,5	360
CHV220.30	30°	357,11	116,73	60	250	190	150	15	330	112	175	360
CHV220.35	35°	362,94	132,76	60	245	185	150	15	330	119,5	182,5	360
CHV220.40	40°	373,16	142,98	60	240	180	150	15	330	127	190	360
CHV220.45	45°	348,64	154,39	45	205	160	130	15	335	98	161	365
CHV220.50	50°	355,42	170,24	45	205	160	130	15	335	104	167	365
CHV220.55	55°	361,67	186,67	45	206	161	130	15	335	89,5	152,5	365
CHV220.60	60°	371,66	201,11	45	204	159	130	15	335	96,5	159,5	365
CHV220.65	65°	367,84	213,13	45	206	161	130	15	335	96,5	159,5	365
CHV220.70	70°	372,05	220,55	45	208	163	130	15	335	96,5	159,5	365
CHV220.75	75°	352,07	246,93	35	180	145	115	15	335	96,5	159,5	365

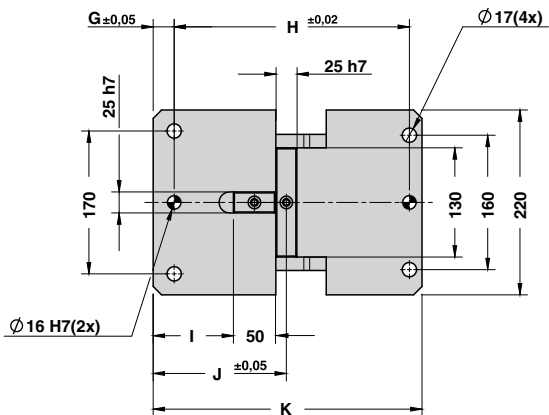
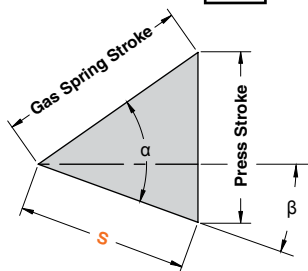


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

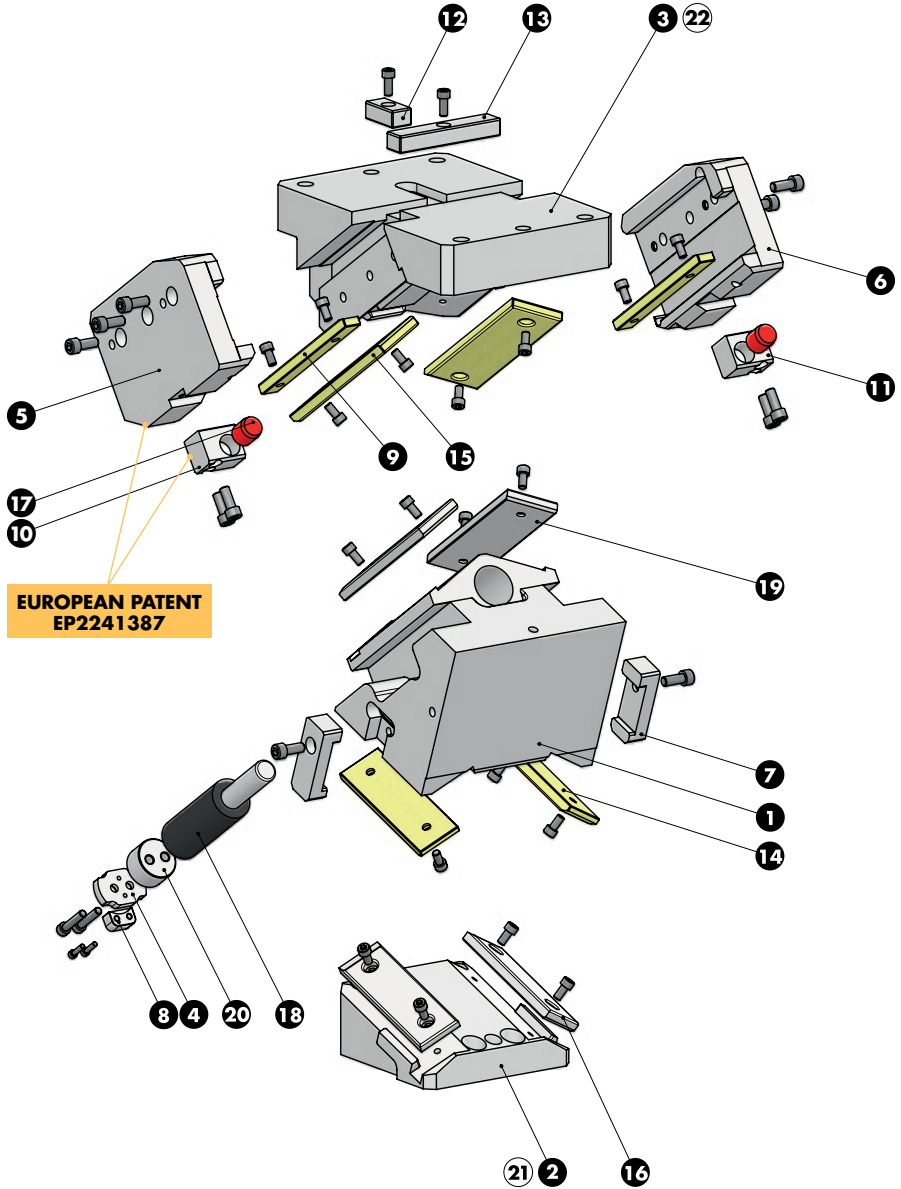


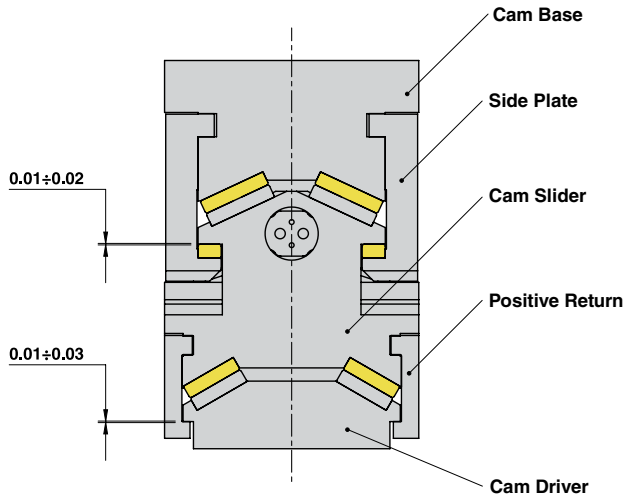
CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

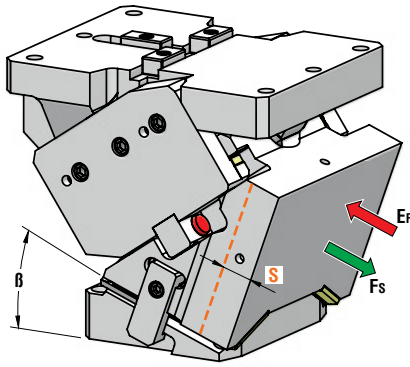



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES


Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	42CrMo4	1
6	Side Plate R	42CrMo4	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	1
13	Key	CK45	1
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
17	Elastomer Cap	Elastomer 92SH	2
18	Gas Spring	-	1
19	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
20	Spring Spacer	CK45	1
21	Cam Driver Fixing Screws M16x55 DIN 912	-	4
22	Cam Base Fixing Screws M16x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)
				Ef Gas Spring
CHV260.00	0°	32,14	536	30,5
CHV260.05	5°	35,49	564	30,8
CHV260.10	10°	35,90	593	31,3
CHV260.15	15°	39,65	621	31,7
CHV260.20	20°	43,59	650	32,4
CHV260.25	25°	45,19	673	32,7
CHV260.30	30°	50	690	33,7
CHV260.35	35°	52,86	708	33,9
CHV260.40	40°	59,16	737	35,2
CHV260.45	45°	64,09	744	35,2
CHV260.50	50°	73,10	747	37,0
CHV260.55	55°	81,92	751	36,9
CHV260.60	60°	96,59	755	39,5
CHV260.65	65°	91,42	759	40,7
CHV260.70	70°	100,78	763	45,7
CHV260.75	75°	95,13	767	45,3



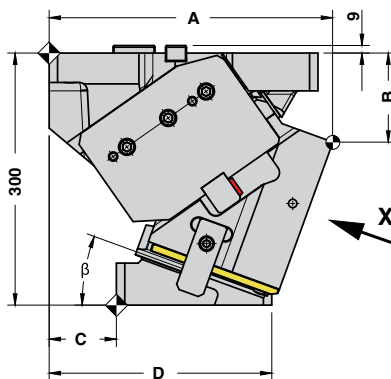
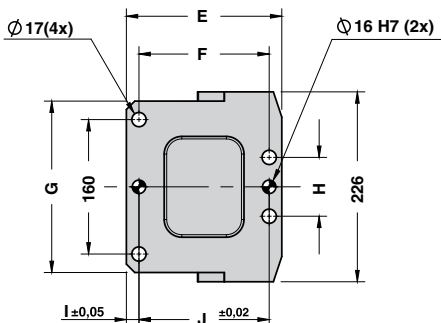
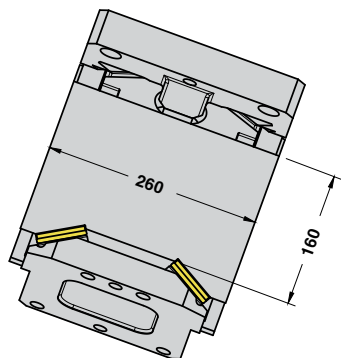
Art.	Work Angle = 5°
CHV260	05

OMCR CODE	Work Angle β	Overall Dimensions (mm)															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
CHV260.00	0°	308	60	80	295	215	155	204	70	15	155	25	280	63,5	50	127	320
CHV260.05	5°	317,63	64,37	80	290	210	155	204	90	15	155	25	280	70,5	50	134	320
CHV260.10	10°	323,81	89,28	80	280	200	155	204	70	15	155	25	280	78,5	50	142	320
CHV260.15	15°	331,70	94,96	80	270	190	155	204	70	15	155	25	280	76	50	151	320
CHV260.20	20°	337,80	106,02	80	265	185	155	204	70	15	155	25	280	76	50	151	320
CHV260.25	25°	345,05	112,89	60	255	195	150	204	70	15	150	15	330	52,5	120	167,5	360
CHV260.30	30°	357,11	116,73	60	250	190	150	204	70	15	150	15	330	60	120	175	360
CHV260.35	35°	362,94	132,76	60	245	185	150	204	70	15	150	15	330	62,5	130	182,5	360
CHV260.40	40°	373,16	142,98	60	240	180	150	204	70	15	150	15	330	70	130	190	360
CHV260.45	45°	348,64	154,39	45	205	160	130	204	70	15	130	15	335	71	100	161	365
CHV260.50	50°	355,42	170,24	45	205	160	130	204	70	15	130	15	335	79	100	167	365
CHV260.55	55°	361,67	186,67	45	215	170	130	204	70	15	130	15	335	64,5	100	152,5	365
CHV260.60	60°	371,66	201,11	45	205	160	130	204	70	15	130	15	335	49,5	120	159,5	365
CHV260.65	65°	367,84	213,13	45	211	166	120	204	70	20	120	15	335	49,5	120	159,5	365
CHV260.70	70°	372,05	220,55	45	210	165	130	226	90	15	130	15	335	49,5	120	159,5	365
CHV260.75	75°	352,07	246,93	35	185	150	115	226	90	15	115	15	335	49,5	120	159,5	365

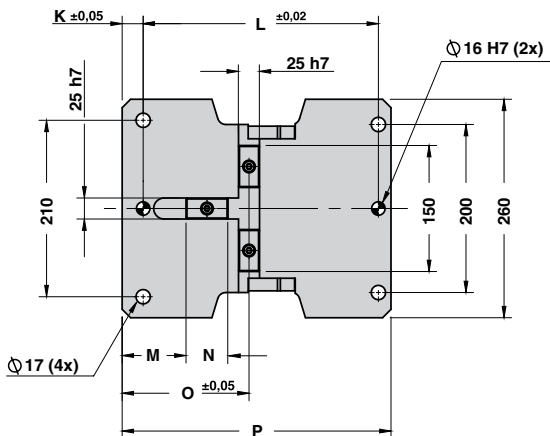
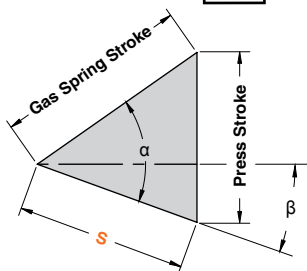


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

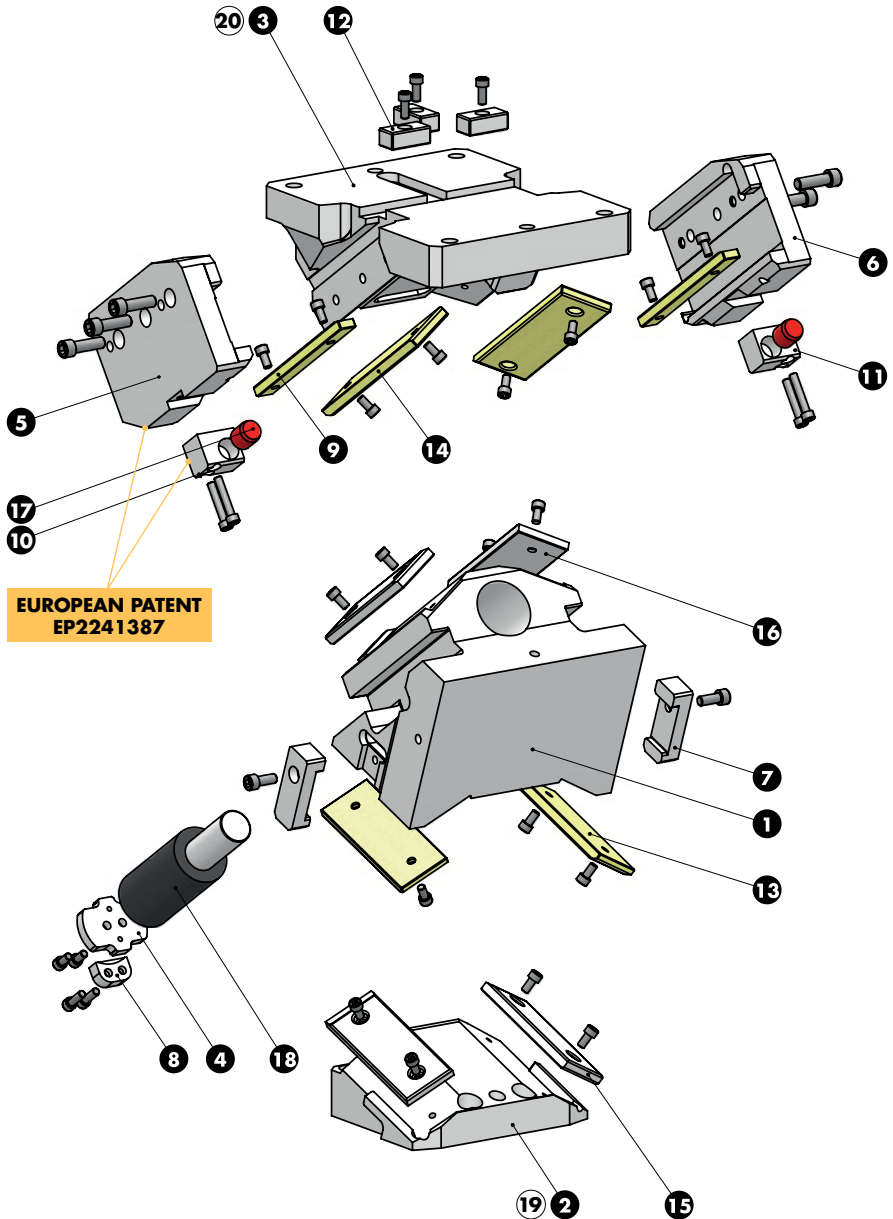


CAM DIAGRAM





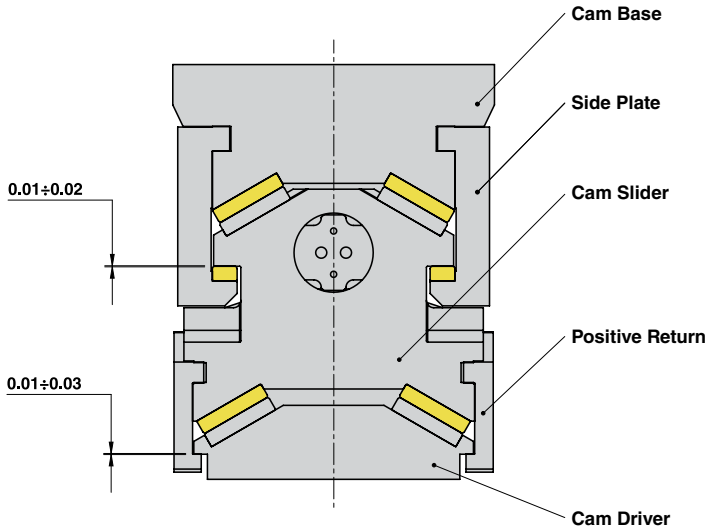
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

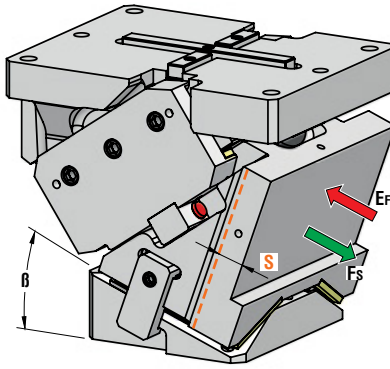


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	42CrMo4	1
6	Side Plate R	42CrMo4	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	3
13	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	16MnCr5 - HRC 58±60	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58±60	2
17	Elastomer Cap	Elastomer 92SH	2
18	Gas Spring	-	1
19	Cam Driver Fixing Screws M16x55 DIN 912	-	4
20	Cam Base Fixing Screws M16x65 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	β	S	Fs	Gas Spring
CHV330.00	0°	37,28	1006	63,9
CHV330.05	5°	41,17	1005	64,6
CHV330.10	10°	41,64	1005	66,6
CHV330.15	15°	46	1005	67,8
CHV330.20	20°	50,56	1007	69,5
CHV330.25	25°	52,42	1009	71,2
CHV330.30	30°	58	1010	73,7
CHV330.35	35°	61,32	1012	75,1
CHV330.40	40°	68,62	1013	78,5
CHV330.45	45°	74,34	1014	79,6
CHV330.50	50°	84,79	1015	84,4
CHV330.55	55°	95,02	1016	85,1
CHV330.60	60°	112,05	1017	91,8
CHV330.65	65°	102,85	1018	94,8
CHV330.70	70°	127,09	1019	94,9
CHV330.75	75°	114,15	1020	95,9



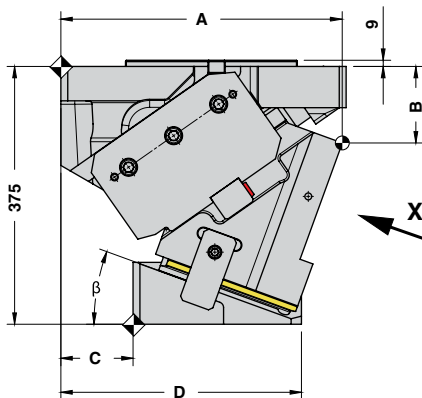
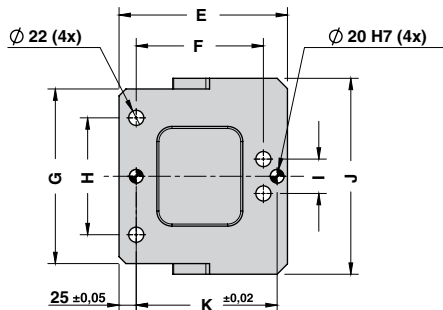
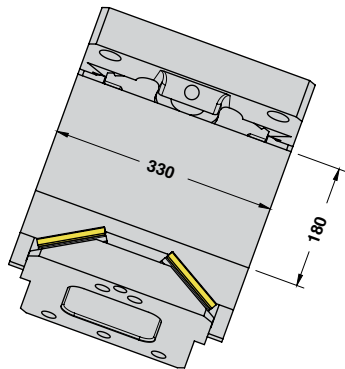
Art.	Work Angle = 5°
CHV330	05

OMCR CODE	Work Angle	Overall Dimensions (mm)														
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N
CHV330.00	0°	403	75	130	410	280	185	254	170	60	285	205	365	72	209,5	415
CHV330.05	5°	410,89	94,30	130	398	268	185	254	170	50	285	205	365	82,5	220	415
CHV330.10	10°	418,81	99,28	130	384	254	185	254	170	50	285	205	365	93	230,5	415
CHV330.15	15°	426,70	104,96	130	385	255	185	254	170	50	285	205	365	103,5	241	415
CHV330.20	20°	434,51	111,32	130	375	245	185	254	170	50	285	205	365	94	251,5	415
CHV330.25	25°	417,16	118,36	80	339	259	145	254	170	50	285	175	365	104,5	237	415
CHV330.30	30°	424,61	131,06	80	330	250	145	254	170	50	285	175	365	95	247,5	415
CHV330.35	35°	427,78	150,13	80	317	237	145	254	170	50	285	175	365	104	256,5	415
CHV330.40	40°	438,66	158,34	80	312	232	145	254	170	50	285	175	365	98	265,5	415
CHV330.45	45°	395,15	172,88	30	255	225	145	254	170	50	285	175	401	62	224,5	450
CHV330.50	50°	412,72	188,31	30	252	222	145	254	170	50	285	175	401	56	233,5	450
CHV330.55	55°	423,22	212,08	30	256	226	145	254	170	50	285	175	401	63,4	240,9	450
CHV330.60	60°	433,59	232,11	30	258	228	145	254	170	50	285	175	401	71	248,5	450
CHV330.65	65°	434,62	242,64	0	242	242	140	330	293	293	330	175	401	71	248,5	450
CHV330.70	70°	429,87	254,52	0	232	232	125	330	293	293	330	175	401	71	248,5	450
CHV330.75	75°	418,49	262,53	0	221	221	105	330	293	293	330	160	401	56	233,5	450

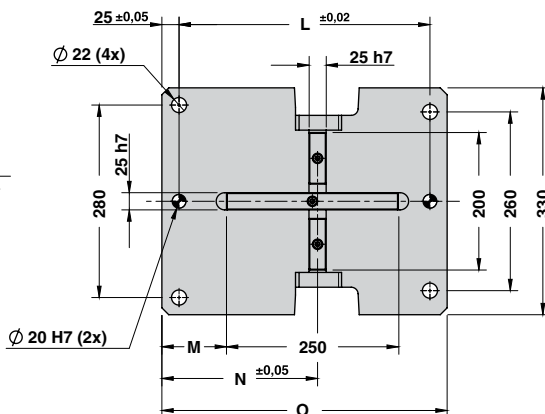
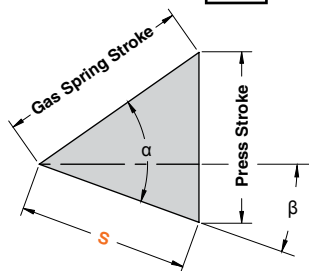


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

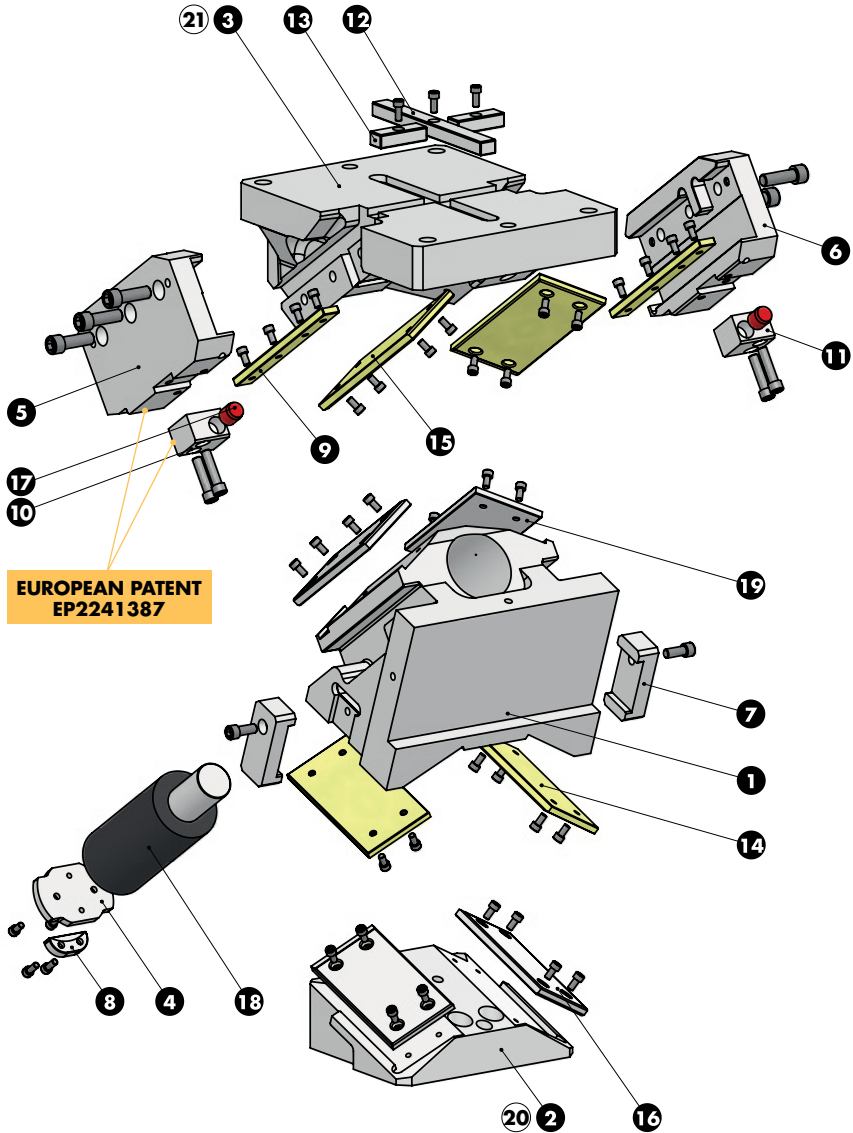


CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

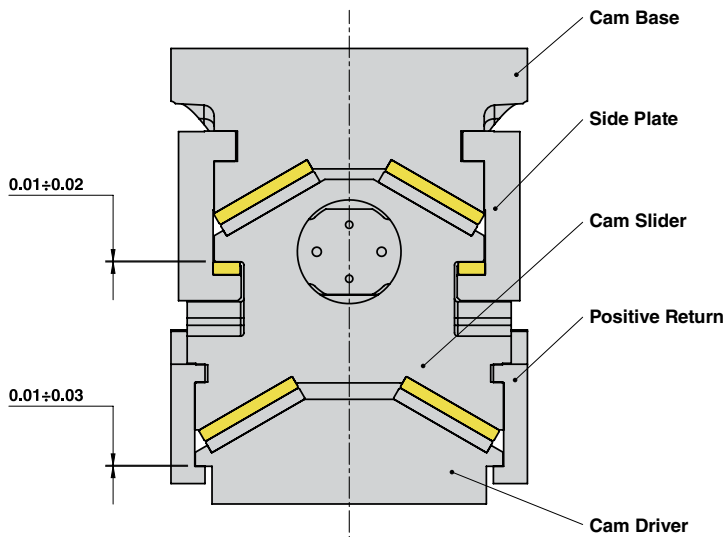


EUROPEAN PATENT
EP2241387



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

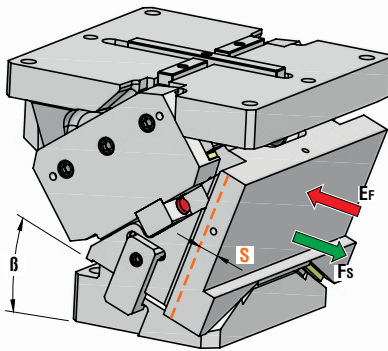
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	42CrMo4	1
6	Side Plate R	42CrMo4	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	1
13	Key	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58±60	2
17	Elastomer Cap	Elastomer 92SH	2
18	Gas Spring	-	1
19	Wear Plate VDI 3357	16MnCr5 - HRC 58±60	2
20	Cam Driver Fixing Screws M20x70 DIN 912	-	4
21	Cam Base Fixing Screws M20x70 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Gas Spring
CHV400.00	0°	37,28	1055	63,9
CHV400.05	5°	41,17	1055	64,6
CHV400.10	10°	41,64	1054	66,6
CHV400.15	15°	46	1054	67,8
CHV400.20	20°	50,56	1054	69,5
CHV400.25	25°	52,42	1054	71,2
CHV400.30	30°	58	1054	73,7
CHV400.35	35°	61,32	1054	75,1
CHV400.40	40°	68,62	1054	78,5
CHV400.45	45°	74,34	1054	79,6
CHV400.50	50°	84,79	1053	84,4
CHV400.55	55°	95,02	1053	85,1
CHV400.60	60°	112,05	1053	91,8
CHV400.65	65°	102,85	1053	94,8
CHV400.70	70°	127,09	1053	94,9
CHV400.75	75°	114,15	1052	95,9

15

ORDER EXAMPLE

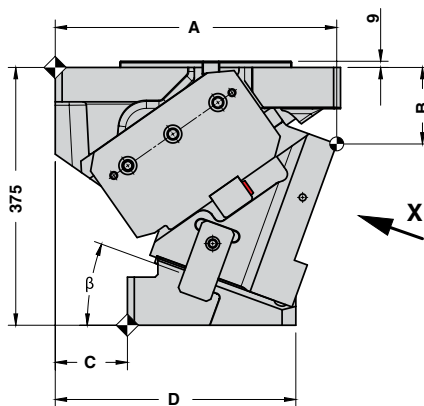
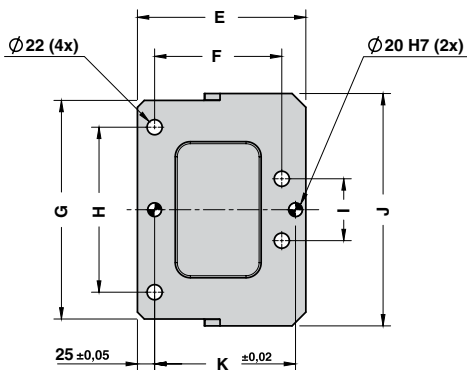
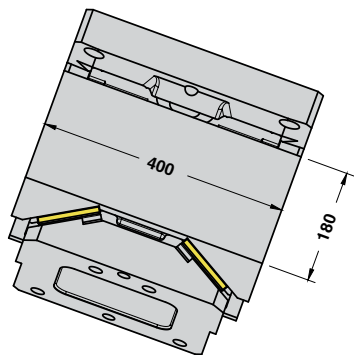
Art.	Work Angle = 5°
CHV400	05

OMCR CODE	Work Angle	Overall Dimensions (mm)														
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N
CHV400.00	0°	403	75	130	410	280	185	318	240	90	338	205	365	72	209,5	415
CHV400.05	5°	410,89	94,30	130	410	280	185	318	240	90	338	205	365	82,5	220	415
CHV400.10	10°	418,81	99,28	130	385	255	185	318	240	90	338	205	365	93	230,5	415
CHV400.15	15°	426,70	104,96	130	385	255	185	318	240	90	338	205	365	103,5	241	415
CHV400.20	20°	434,51	111,32	130	375	245	185	318	240	90	338	205	365	94	251,5	415
CHV400.25	25°	417,16	118,36	80	340	260	145	318	240	90	338	175	365	104,5	237	415
CHV400.30	30°	424,61	131,06	80	330	250	145	318	240	90	338	175	365	95	247,5	415
CHV400.35	35°	427,78	150,13	80	317	237	145	318	240	90	338	175	365	104	256,5	415
CHV400.40	40°	438,66	158,34	80	310	230	145	318	240	90	338	175	365	98	265,5	415
CHV400.45	45°	395,15	172,88	30	255	225	145	318	240	90	338	175	401	62	224,5	450
CHV400.50	50°	412,72	188,31	30	245	215	145	318	240	90	338	175	401	56	233,5	450
CHV400.55	55°	423,22	212,08	30	256	226	145	318	240	90	338	175	401	63,4	240,9	450
CHV400.60	60°	433,59	232,11	30	260	230	145	318	240	90	338	175	401	71	248,5	450
CHV400.65	65°	434,62	242,64	0	242	242	140	400	363	363	400	175	401	71	248,5	450
CHV400.70	70°	429,87	254,52	0	226	226	125	400	363	363	400	175	401	71	248,5	450
CHV400.75	75°	418,49	262,53	0	214	214	105	400	363	363	400	160	401	56	233,5	450

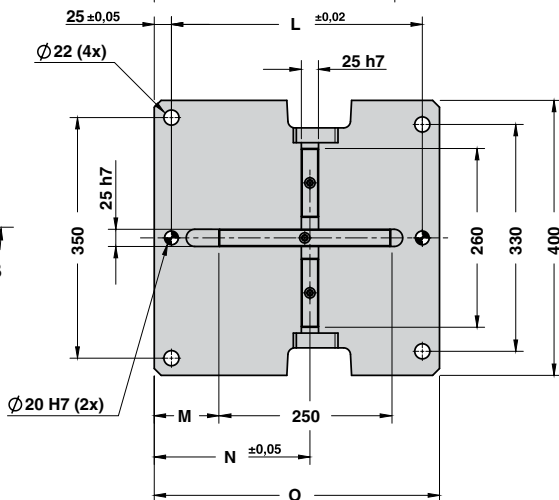
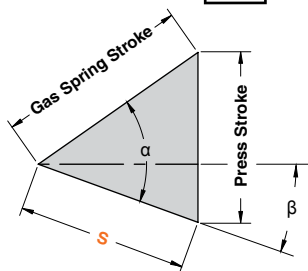


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

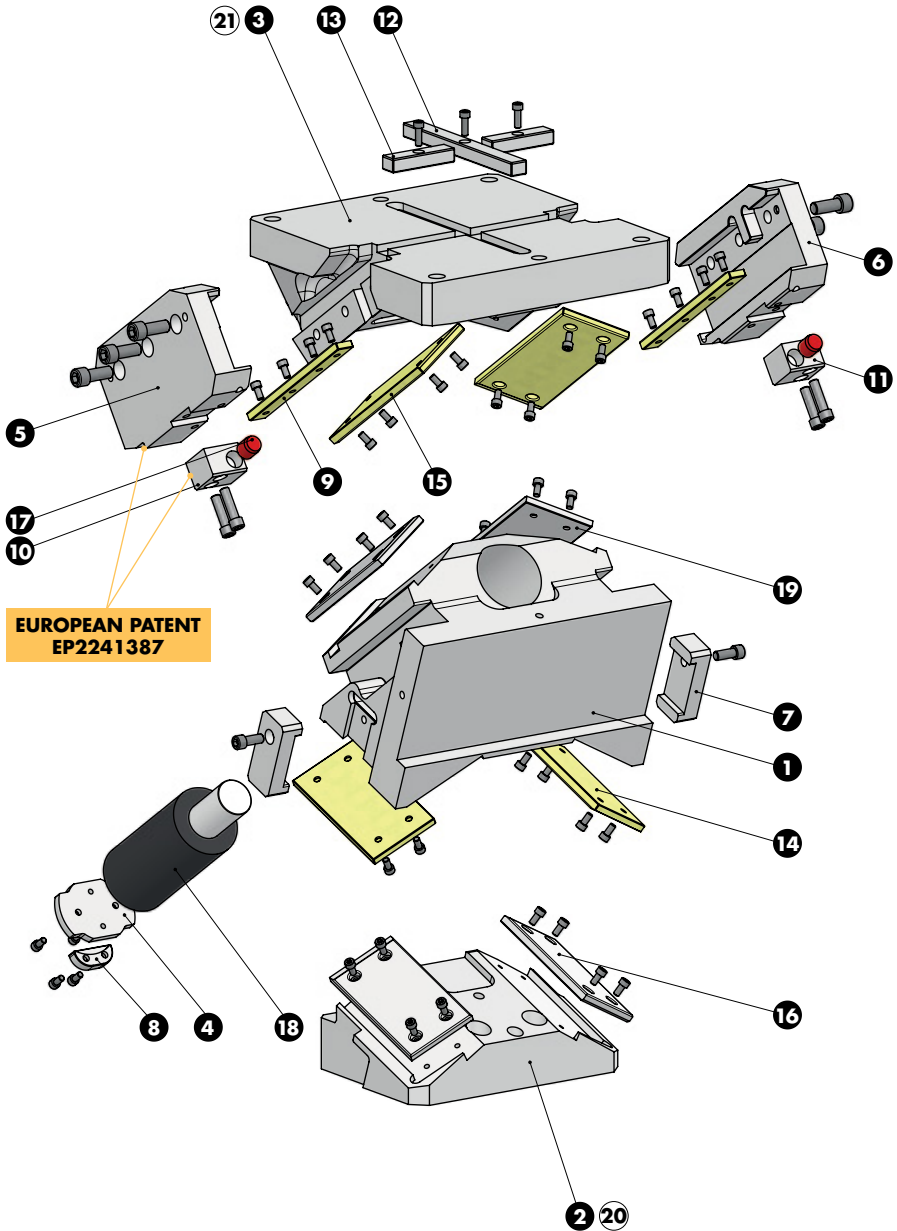


CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

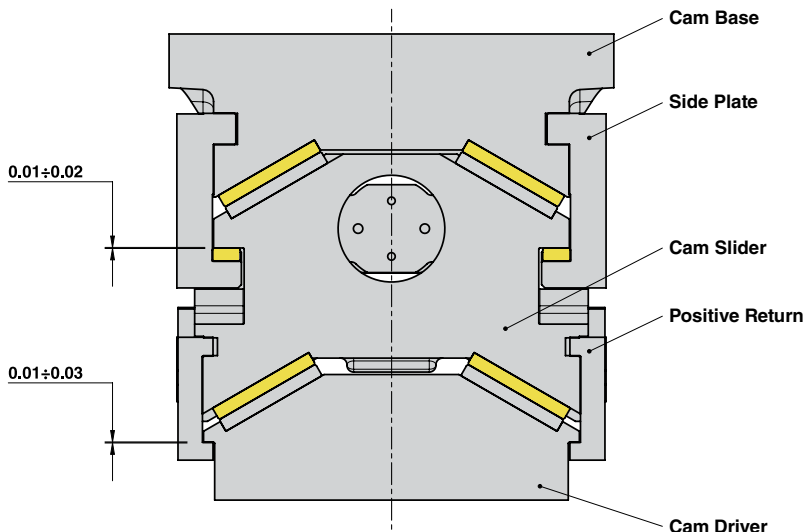


EUROPEAN PATENT
EP2241387



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

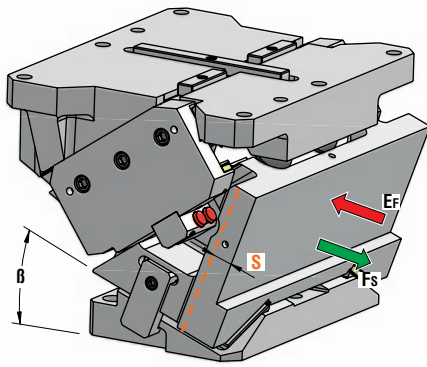


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	1
5	Side Plate L	42CrMo4	1
6	Side Plate R	42CrMo4	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	1
13	Key	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
17	Elastomer Cap	Elastomer 92SH	2
18	Gas Spring	-	1
19	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
20	Cam Driver Fixing Screws M20x70 DIN 912	-	4
21	Cam Base Fixing Screws M20x70 DIN 912	-	4



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Gas Spring
CHV500.00	0°	37,28	1155	87,0
CHV500.05	5°	41,17	1155	87,0
CHV500.10	10°	41,64	1155	85,7
CHV500.15	15°	46,00	1155	85,7
CHV500.20	20°	50,56	1155	85,7
CHV500.25	25°	52,42	1155	83,8
CHV500.30	30°	58,00	1155	83,8
CHV500.35	35°	61,32	1155	81,2
CHV500.40	40°	68,62	1155	81,2
CHV500.45	45°	74,34	1155	78,0
CHV500.50	50°	84,79	1155	78,0
CHV500.55	55°	95,02	1155	74,1
CHV500.60	60°	112,05	1155	74,1
CHV500.65	65°	102,85	1155	69,3
CHV500.70	70°	127,09	1155	64,5
CHV500.75	75°	114,15	1155	66,8



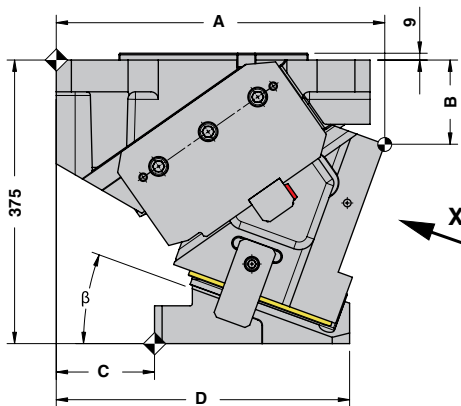
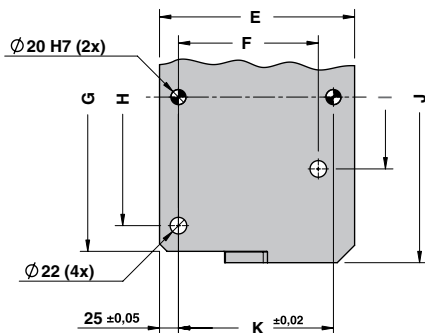
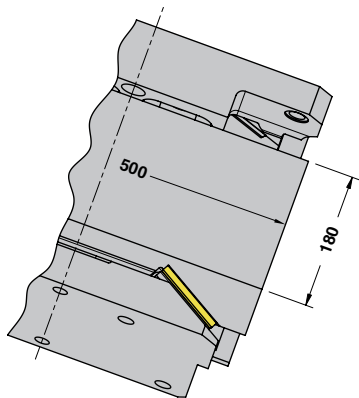
Art.	Work Angle = 5°
CHV500	05

OMCR CODE	Work Angle	Overall Dimensions (mm)															
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
CHV500.00	0°	403,00	75,00	130	396	266	185	408	340	190	438	205	365	83	209,5	415	110
CHV500.05	5°	410,89	94,30	130	398	268	185	408	340	190	438	205	365	83	220	415	110
CHV500.10	10°	418,81	99,28	130	384	254	185	408	340	190	438	205	365	83	230,5	415	110
CHV500.15	15°	426,70	104,96	130	385	255	185	408	340	190	438	205	365	83	241	415	110
CHV500.20	20°	434,51	111,32	130	376	246	185	408	340	190	438	205	365	83	251,5	415	110
CHV500.25	25°	417,16	118,36	80	339	259	145	408	340	190	438	175	365	83	237	415	110
CHV500.30	30°	424,61	131,06	80	330	250	145	408	340	180	438	175	365	83	247,5	415	170
CHV500.35	35°	427,78	150,13	80	317	237	145	408	340	190	438	175	365	83	256,5	415	110
CHV500.40	40°	438,66	158,34	80	312	232	145	408	340	190	438	175	365	83	265,5	415	110
CHV500.45	45°	395,15	172,88	30	255	225	145	408	340	190	438	175	401	103	224,5	455	110
CHV500.50	50°	412,72	188,31	30	245	215	145	408	340	190	438	175	401	100,5	233,5	450	110
CHV500.55	55°	423,22	212,08	30	256	226	145	408	340	190	438	175	401	100,5	241	450	110
CHV500.60	60°	433,59	232,11	30	258	228	145	408	340	190	438	175	401	100,5	248,5	450	110
CHV500.65	65°	434,62	242,64	0	245	245	140	500	463	463	500	175	401	100,5	248,5	450	110
CHV500.70	70°	429,87	254,52	0	219	219	125	500	463	463	500	175	401	100,5	248,5	450	110
CHV500.75	75°	418,49	262,53	0	208	208	105	500	463	463	500	160	401	100,5	233,5	450	110

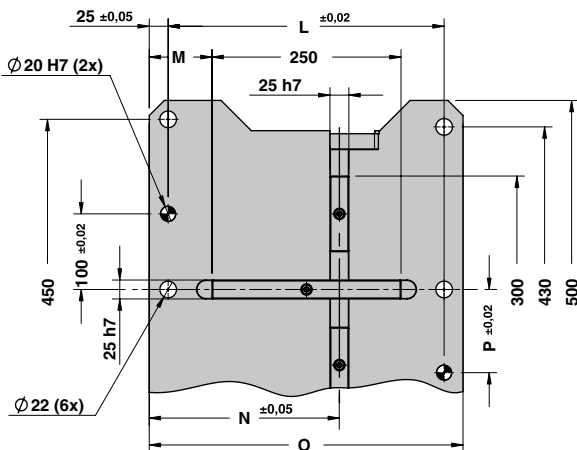
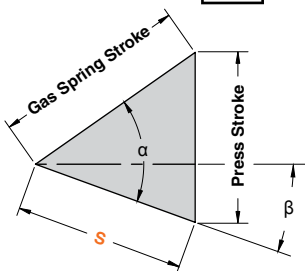


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

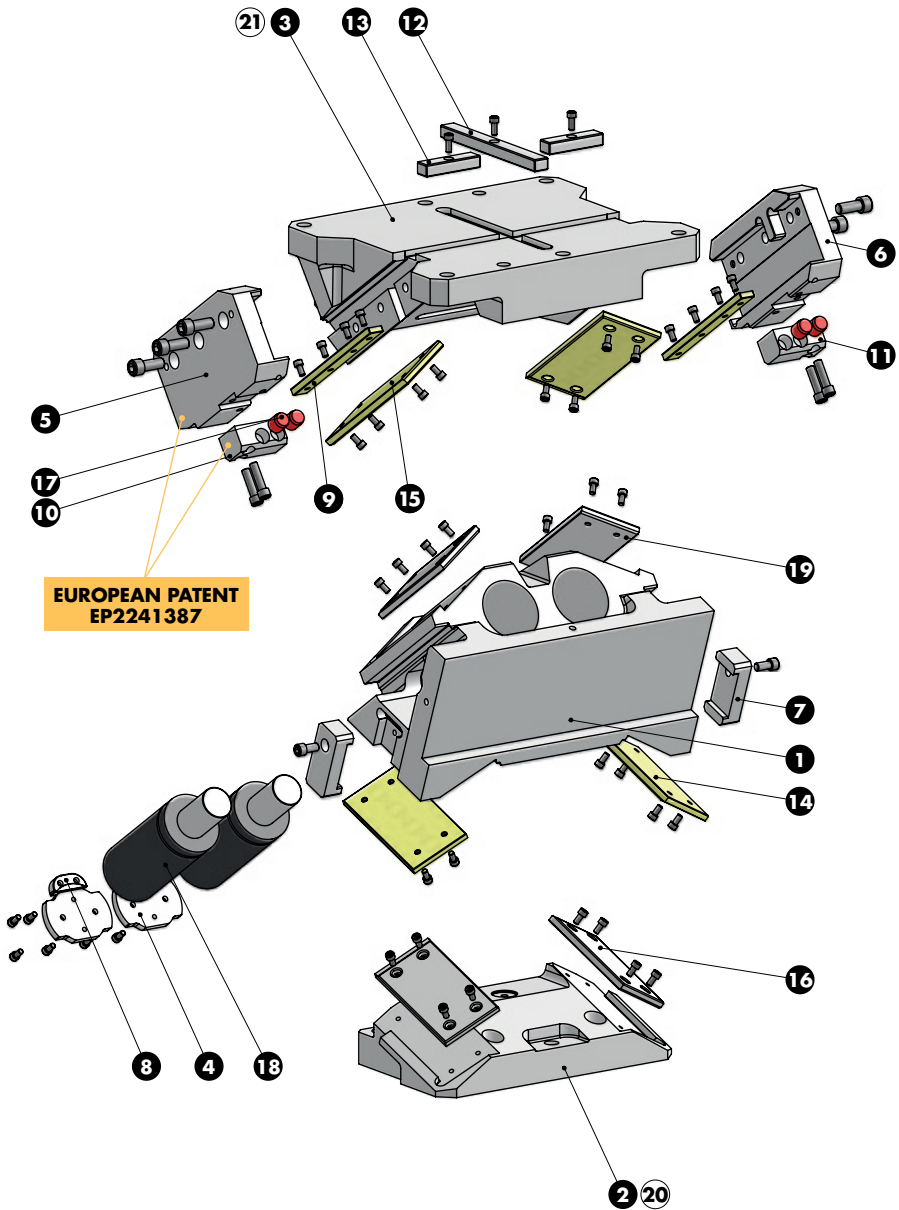


CAM DIAGRAM





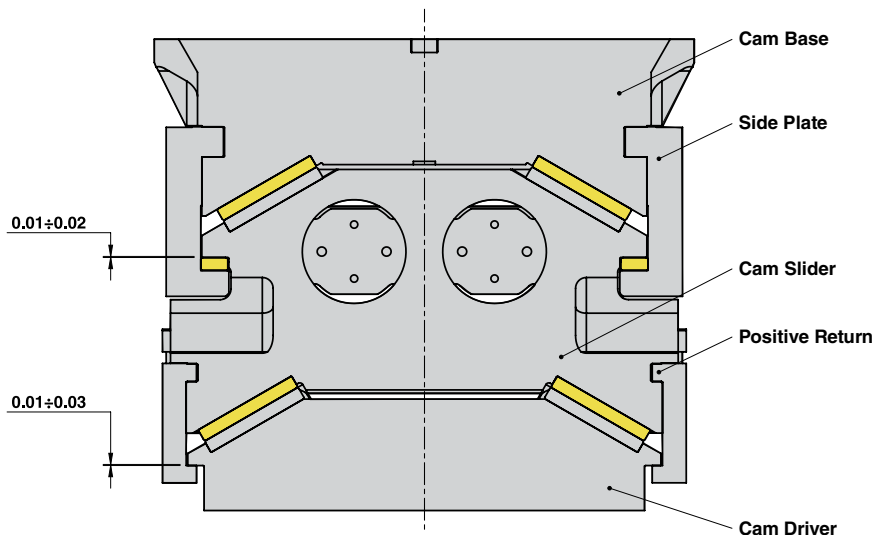
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

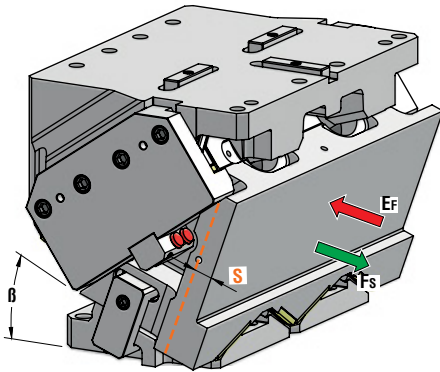


Cam Units CHV

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	2
5	Side Plate L	42CrMo4	1
6	Side Plate R	42CrMo4	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	2
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	1
13	Key	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
17	Elastomer Cap	Elastomer 92SH	4
18	Gas Spring	-	2
19	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
20	Cam Driver Fixing Screws M20x70 DIN 912	-	4
21	Cam Base Fixing Screws M20x70 DIN 912	-	6



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Gas Spring
CHV600.00	0°	37,28	1202	98,1
CHV600.05	5°	41,17	1202	98,1
CHV600.10	10°	41,64	1202	98,5
CHV600.15	15°	46,00	1202	98,5
CHV600.20	20°	50,56	1202	98,5
CHV600.25	25°	52,42	1202	98,2
CHV600.30	30°	58,00	1202	98,2
CHV600.35	35°	61,32	1202	97,1
CHV600.40	40°	68,62	1202	97,1
CHV600.45	45°	74,34	1202	95,2
CHV600.50	50°	84,79	1202	95,2
CHV600.55	55°	95,02	1202	92,6
CHV600.60	60°	112,05	1202	92,6
CHV600.65	65°	102,85	1202	88,8
CHV600.70	70°	127,09	1202	84,9
CHV600.75	75°	114,15	1202	84,2



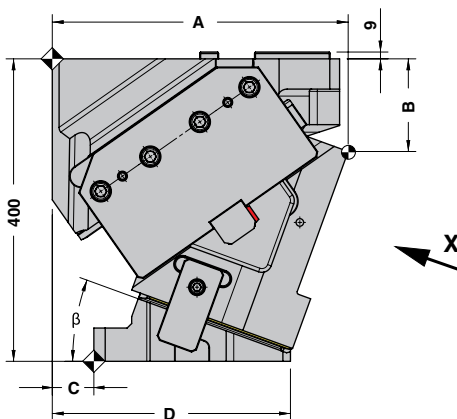
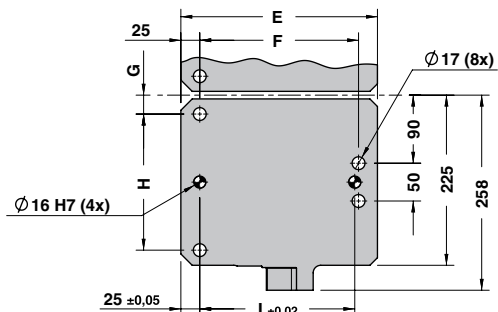
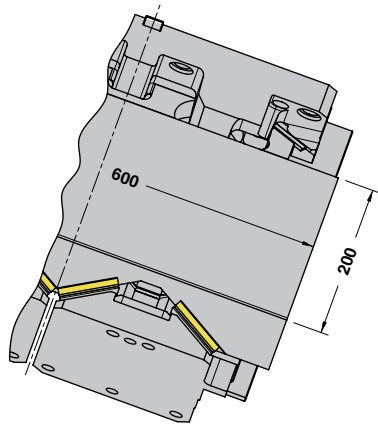
Art.	Work Angle = 5°
CHV600	05

OMCR CODE	Work Angle	Overall Dimensions (mm)																		
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
CHV600.00	0°	368,00	75,00	120	375	255	205	25	180	200	30	330	360	272,5	167,5	600	560	250	330	385
CHV600.05	5°	377,63	89,37	105	363	258	210	25	180	205	30	330	360	272,5	182,5	600	560	250	330	385
CHV600.10	10°	387,28	99,59	105	350	245	205	25	180	200	30	330	360	272,5	192,5	600	560	250	330	385
CHV600.15	15°	396,88	110,64	95	340	245	195	25	180	190	30	330	360	272,5	207,5	600	560	250	330	385
CHV600.20	20°	391,35	122,53	55	315	260	210	25	180	205	30	325	355	267,5	207,5	530	280	90	325	380
CHV600.25	25°	400,61	135,23	55	305	250	200	25	180	195	30	325	355	267,5	222,5	530	280	90	325	380
CHV600.30	30°	409,61	138,74	45	295	250	200	25	180	195	30	345	375	287,5	222,5	530	280	90	345	400
CHV600.35	35°	418,26	153,01	5	285	280	230	25	180	225	30	355	385	302,5	202,5	530	280	90	355	415
CHV600.40	40°	426,51	168,02	5	280	275	225	25	180	220	30	380	410	322,5	217,5	530	280	90	380	435
CHV600.45	45°	434,30	183,73	5	270	265	215	25	180	210	30	380	410	322,5	242,5	530	280	90	380	435
CHV600.50	50°	419,53	180,82	-5	220	225	175	25	180	170	30	400	430	342,5	232,5	530	280	100	400	455
CHV600.55	55°	427,80	199,87	-5	210	215	165	25	180	160	30	400	430	342,5	247,5	530	280	100	400	455
CHV600.60	60°	425,24	224,61	-15	200	215	165	25	180	160	30	400	430	342,5	267,5	530	280	100	400	455
CHV600.65	65°	431,81	244,96	5	190	185	140	35	160	130	55	415	470	382,5	262,5	600	560	250	440	495
CHV600.70	70°	437,45	270,84	5	185	180	135	35	160	125	55	415	470	382,5	262,5	600	560	250	440	495
CHV600.75	75°	442,12	292,17	5	180	175	120	35	160	130	55	415	470	382,5	327,5	600	560	250	440	495

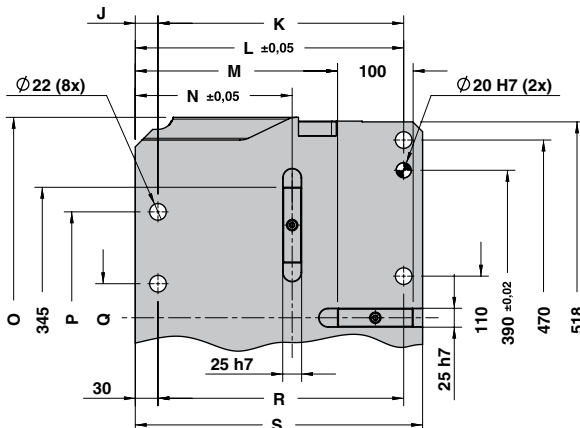
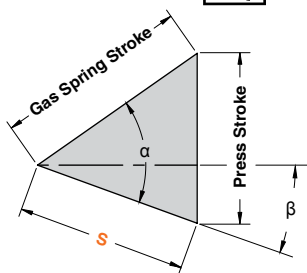


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

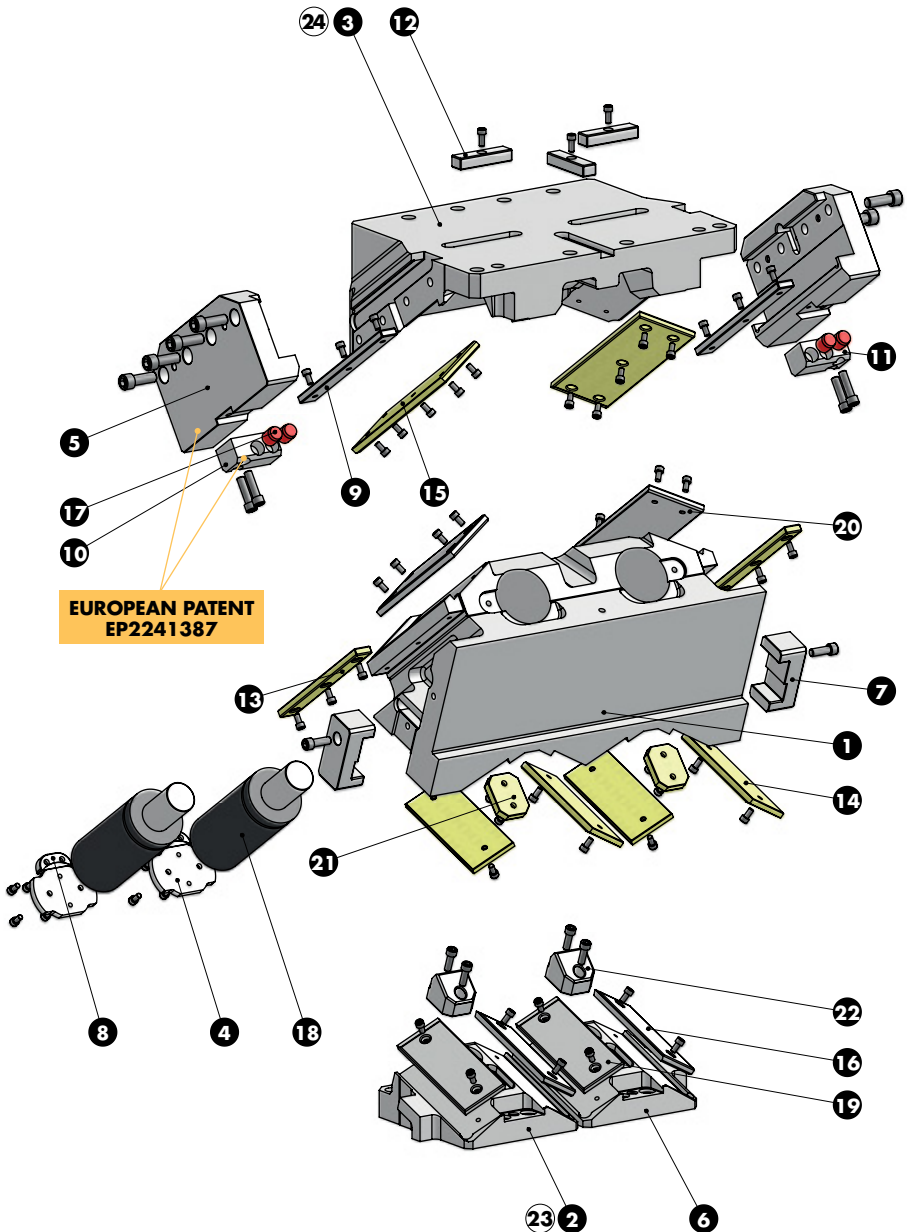


CAM DIAGRAM





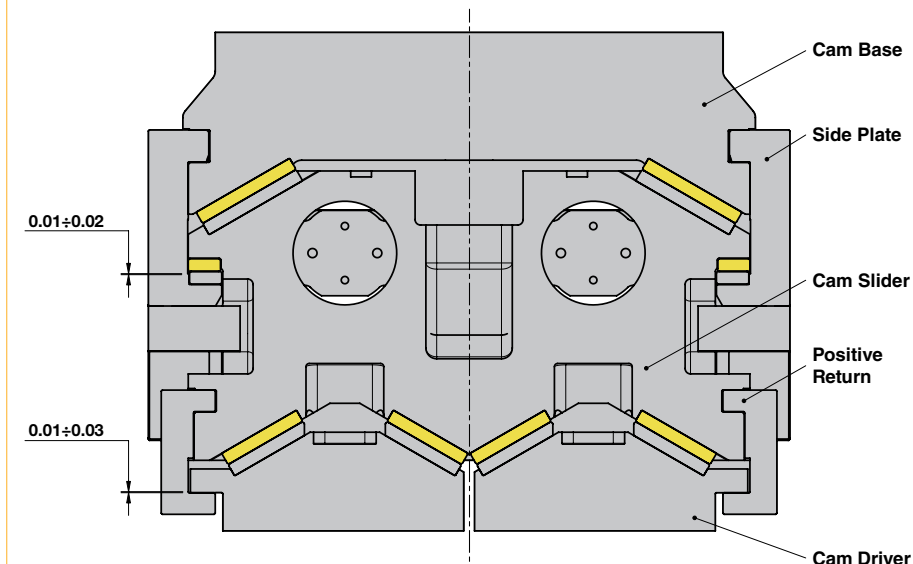
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver L	GGG-60	1
3	Cam Base	GGG-60	1
4	Lock Plate	42CrMo4	2
5	Side Plate	42CrMo4	2
6	Cam Driver R	GGG-60	1
7	Positive Return	42CrMo4 Nitrided	2
8	Safety Plate	CK45	2
9	Wear Plate	16MnCr5 - HRC 58-60	2
10	Slide Reaction L	CK45	1
11	Slide Reaction R	CK45	1
12	Key	CK45	3
13	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	4
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
17	Elastomer Cap	Elastomer 92SH	4
18	Gas Spring	-	2
19	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
20	Wear Plate VDI 3357	16MnCr5 - HRC 58-60	2
21	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
22	Accelerator	CK45	2
23	Cam Driver Fixing Screws M16x60 DIN 912	-	8
24	Cam Base Fixing Screws M20x70 DIN 912	-	8

Cam Units CHV



OMCR®

STANDARD DIE COMPONENTS



**CAM UNITS CHY
SCHIEBER CHY
CAMME CHY**

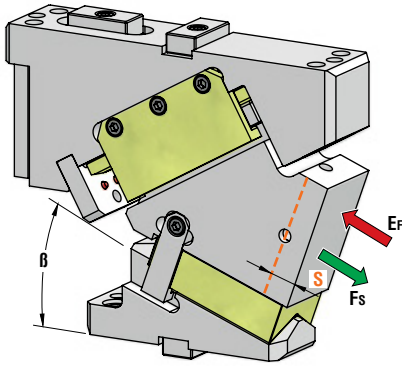
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
CHY060	0°±75° (5° steps)	60	210	60x100	79	0,64÷1,61
CHY085	0°±75° (5° steps)	85	225	85x110	106	1,38÷3,47
CHY110	0°±75° (5° steps)	110	275	110x*E	160	1,34÷3,53
CHY165	0°±75° (5° steps)	165	300	165x115	183	2,41÷8,06
CHY200	0°±75° (5° steps)	200	300	200x115	230	2,63÷8,06
CHY250	0°±75° (5° steps)	250	300	250x115	302	5,26÷16,12
CHY300	0°±75° (5° steps)	300	375	300x155	389	5,20÷15,58
CHY350	0°±75° (5° steps)	350	375	350x155	428	9,80÷29,31
CHY400	0°±75° (5° steps)	400	375	400x155	473	7,79÷23,37



Precision and accurate dimensions through very strict quality guidelines

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	β	S	Fs	Gas Spring
CHY060.00	0°	19,28	79	1,61
CHY060.05	5°	21,29	79	1,61
CHY060.10	10°	23,34	79	1,61
CHY060.15	15°	25,44	79	1,61
CHY060.20	20°	27,65	79	1,61
CHY060.25	25°	30	79	1,61
CHY060.30	30°	32,55	79	1,61
CHY060.35	35°	35,38	79	1,61
CHY060.40	40°	38,57	79	1,61
CHY060.45	45°	42,26	79	1,61
CHY060.50	50°	46,67	79	1,61
CHY060.55	55°	52,30	79	1,44
CHY060.60	60°	60	79	1,26
CHY060.65	65°	70,99	79	1,06
CHY060.70	70°	58,48	79	0,85
CHY060.75	75°	77,27	79	0,64

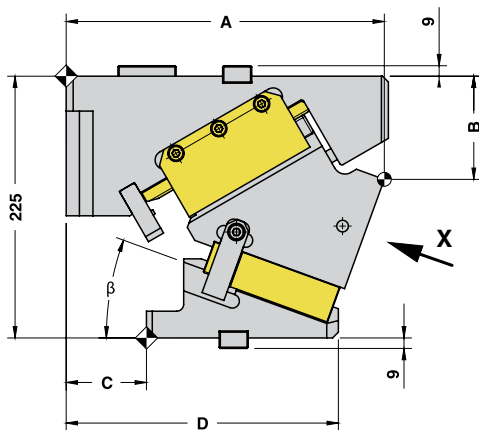
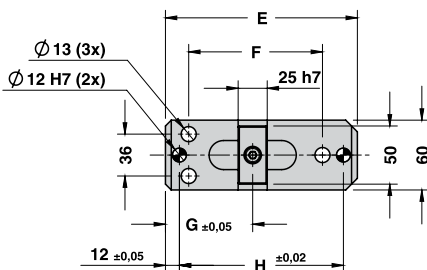
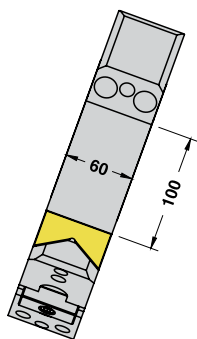


Art.	Work Angle = 5°
CHY060	05

OMCR CODE	Work Angle	Overall Dimensions (mm)								
		β	A	B	C	D	E	F	G	H
CHY060.00	0°	267	69	100	265	165	115	75	141	
CHY060.05	5°	274,45	73,08	95	260	165	115	75	141	
CHY060.10	10°	272,04	77,56	86	251	165	115	75	141	
CHY060.15	15°	273,74	82,44	77	242	165	115	75	141	
CHY060.20	20°	273,50	88,73	69	234	165	115	75	141	
CHY060.25	25°	271,28	93,53	56	221	165	115	75	141	
CHY060.30	30°	270,02	98,57	48	213	165	115	75	141	
CHY060.35	35°	266,76	105,15	49	194	145	95	65	121	
CHY060.40	40°	262,47	112,10	39	184	145	95	65	121	
CHY060.45	45°	256,13	126,50	31	176	145	95	65	121	
CHY060.50	50°	249,80	134,78	23	153	130	80	58	106	
CHY060.55	55°	247,39	141,94	16	146	130	80	58	106	
CHY060.60	60°	237,95	149,36	5	135	130	80	58	106	
CHY060.65	65°	235	163,68	-5	125	130	80	58	106	
CHY060.70	70°	230	177,95	-15	115	130	80	58	106	
CHY060.75	75°	222	187,73	-25	105	130	80	58	106	

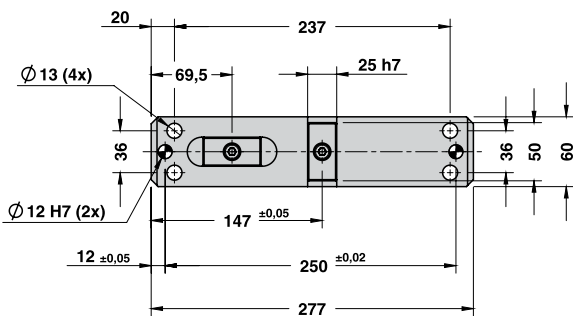
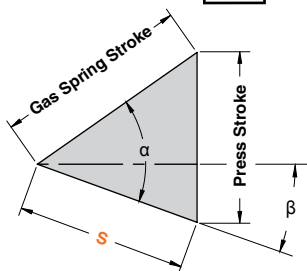
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

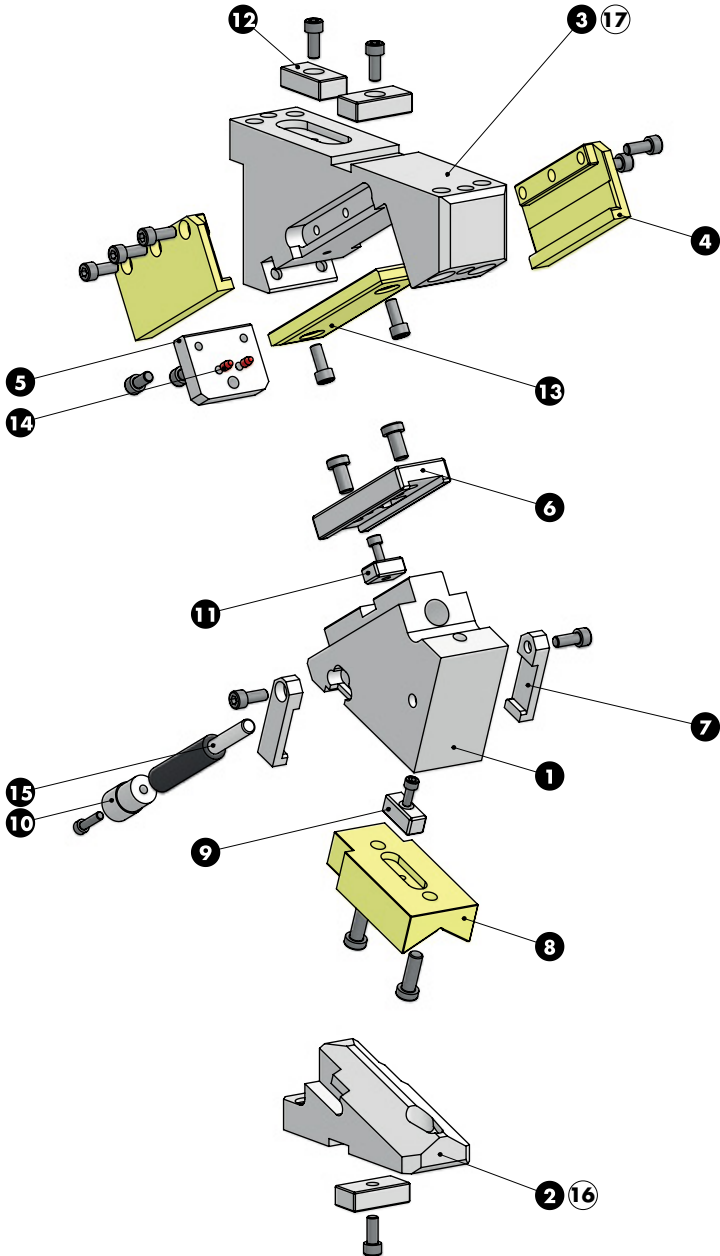


Cam Units CHY

CAM DIAGRAM

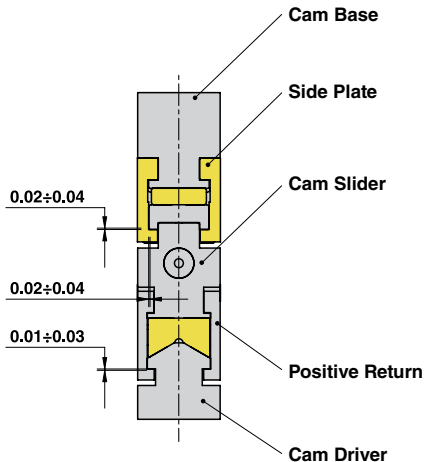


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

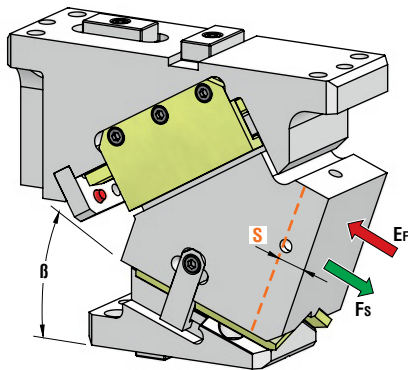
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHY

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Stopper Plate	St44	1
6	Wear Plate	CK45	1
7	Positive Return	CK45	2
8	Female "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
9	Key	CK45	1
10	Spring Spacer	CK45	1
11	Key	CK45	1
12	Key	CK45	3
13	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	1
14	Elastomer Cap	Elastomer 92SH	2
15	Gas Spring	-	1
16	Cam Driver Fixing Screws M12x45 DIN 912	-	3
17	Cam Base Fixing Screws M12x45 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Gas Spring
CHY085.00	0°	19,28	106	3,47
CHY085.05	5°	21,29	106	3,47
CHY085.10	10°	23,34	106	3,47
CHY085.15	15°	25,44	106	3,47
CHY085.20	20°	27,65	106	3,47
CHY085.25	25°	30	106	3,47
CHY085.30	30°	32,55	106	3,47
CHY085.35	35°	35,38	106	3,47
CHY085.40	40°	38,57	106	3,47
CHY085.45	45°	42,26	106	3,47
CHY085.50	50°	46,67	106	3,47
CHY085.55	55°	52,30	106	3,10
CHY085.60	60°	60	106	2,70
CHY085.65	65°	70,99	106	2,28
CHY085.70	70°	58,48	106	1,83
CHY085.75	75°	77,27	106	1,38

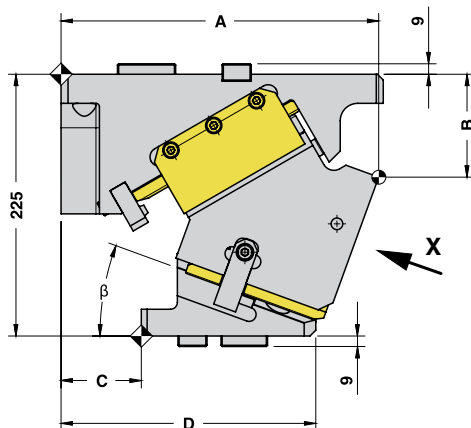
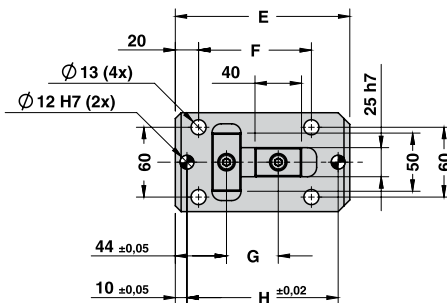
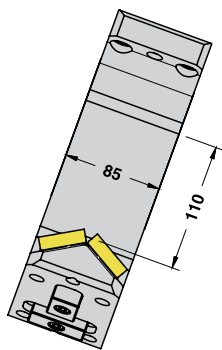


Art.	Work Angle = 5°
CHY085	05

OMCR CODE	Work Angle	Overall Dimensions (mm)							
		B	A	B	C	D	E	F	G
CHY085.00	0°	267	63	115	265	150	97	49,5	130
CHY085.05	5°	272,39	67,16	110	260	150	97	49,5	130
CHY085.10	10°	275,07	71,77	101	251	150	97	49,5	130
CHY085.15	15°	277,99	79,72	92	242	150	97	49,5	130
CHY085.20	20°	273,08	88,43	69	219	150	97	49,5	130
CHY085.25	25°	271,30	94,15	60	210	150	97	49,5	130
CHY085.30	30°	269,61	100,26	52	202	150	97	49,5	130
CHY085.35	35°	265,99	103,46	47	197	150	97	49,5	130
CHY085.40	40°	262,39	110,53	37	177	140	87	42,5	120
CHY085.45	45°	256,82	117,97	23	163	140	87	42,5	120
CHY085.50	50°	249,24	133,48	20	150	130	77	32,5	110
CHY085.55	55°	250,67	140,79	19	149	130	77	32,5	110
CHY085.60	60°	240,10	149,35	4	134	130	77	32,5	110
CHY085.65	65°	235	159,05	-5	125	130	77	32,5	110
CHY085.70	70°	230	168,88	-15	115	130	80	32,5	110
CHY085.75	75°	228	186,99	-25	105	130	90	32,5	110

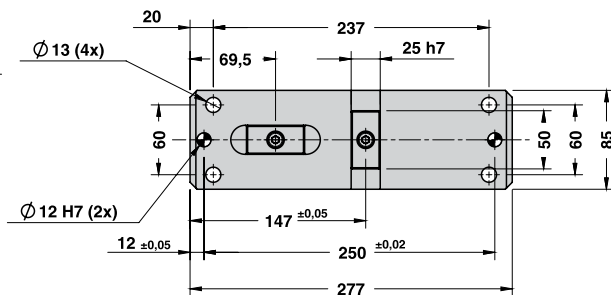
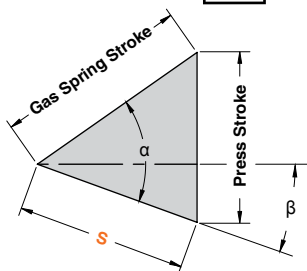
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

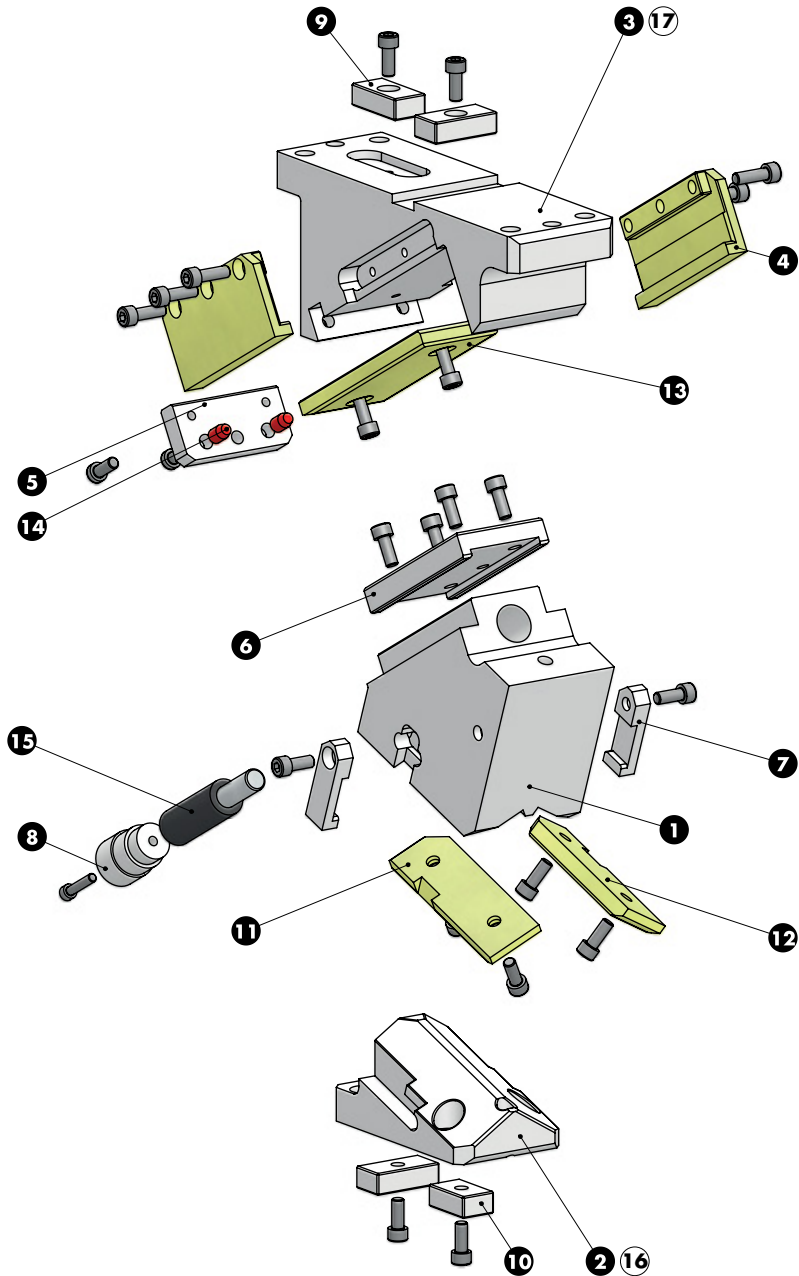


Cam Units CHY

CAM DIAGRAM

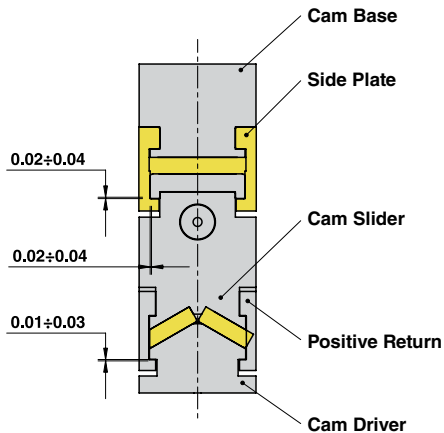


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

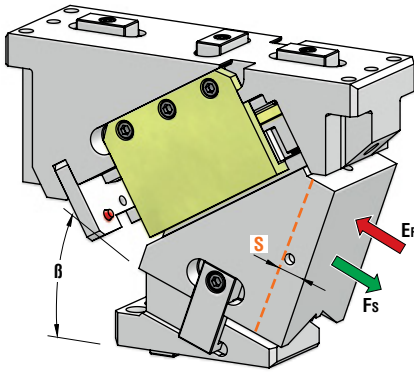
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHY

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Stopper Plate	St44	1
6	Wear Plate	CK45	1
7	Positive Return	CK45	2
8	Spring Spacer	CK45	1
9	Key	CK45	3
10	Key	CK45	1
11	Wear Plate L	CuZn25Al5 + Graphite - HB > 190	1
12	Wear Plate R	CuZn25Al5 + Graphite - HB > 190	1
13	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	1
14	Elastomer Cap	Elastomer 92SH	2
15	Gas Spring	-	1
16	Cam Driver Fixing Screws M12x40 DIN 912	-	4
17	Cam Base Fixing Screws M12x45 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Gas Spring
CHY110.00	0°	32,14	160	3,53
CHY110.05	5°	35,49	160	3,53
CHY110.10	10°	38,89	160	3,53
CHY110.15	15°	42,40	160	3,53
CHY110.20	20°	46,08	160	3,53
CHY110.25	25°	50	160	3,53
CHY110.30	30°	54,25	160	3,53
CHY110.35	35°	58,96	160	3,53
CHY110.40	40°	64,28	160	3,53
CHY110.45	45°	70,44	160	3,53
CHY110.50	50°	77,79	160	3,53
CHY110.55	55°	87,17	160	3,15
CHY110.60	60°	100	160	2,75
CHY110.65	65°	94,65	160	2,32
CHY110.70	70°	81,87	160	1,77
CHY110.75	75°	108,18	160	1,34

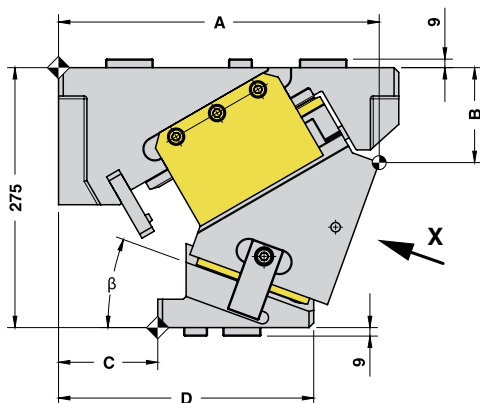
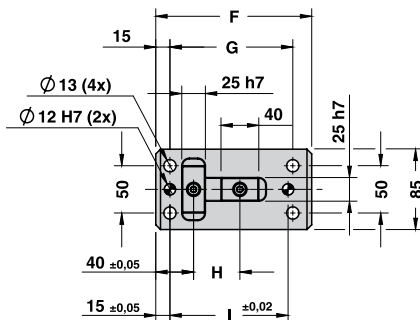
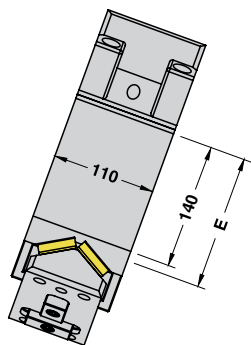


Art.	Work Angle = 5°
CHY110	05

OMCR CODE	Work Angle	Overall Dimensions (mm)														
		B	A	B	C	D	E	F	G	H	I	J	K	L	M	N
CHY110.00	0°	318	70	138	303	145	165	130	49	125	300	137,5	70	185	295	330
CHY110.05	5°	324,46	79,26	130	295	145	165	130	49	125	300	137,5	70	185	295	330
CHY110.10	10°	330,22	84,13	121	286	145	165	130	49	125	330	137,5	70	185	325	360
CHY110.15	15°	336,20	94,45	114	279	145	165	130	49	125	330	192,5	75	205	325	360
CHY110.20	20°	339,32	100,42	105	270	145	165	130	49	125	330	192,5	75	205	325	360
CHY110.25	25°	340,51	109,67	94	259	145	165	130	49	125	330	192,5	75	205	325	360
CHY110.30	30°	348,36	120,54	70	250	145	180	145	55	140	330	192,5	75	205	325	360
CHY110.35	35°	343,52	127,82	54	234	145	180	145	55	140	330	192,5	75	205	325	360
CHY110.40	40°	332,59	139,41	64	214	145	150	110	35	105	330	192,5	75	205	325	360
CHY110.45	45°	322,52	149,44	45	195	145	150	110	35	105	330	192,5	75	205	325	360
CHY110.50	50°	309,47	156,17	25	175	145	150	110	35	105	315	180,5	93	185	310	345
CHY110.55	55°	311,07	169,79	18	168	145	150	110	35	105	315	180,5	93	185	310	345
CHY110.60	60°	327,93	168,85	7	157	180	150	110	35	105	315	180,5	93	185	310	345
CHY110.65	65°	317,17	185	-10	140	180	150	110	35	105	315	180,5	93	185	310	345
CHY110.70	70°	313,12	205	-20	130	180	150	110	35	105	315	180,5	93	185	310	345
CHY110.75	75°	306,79	225	-30	120	180	150	110	35	105	315	180,5	93	185	310	345

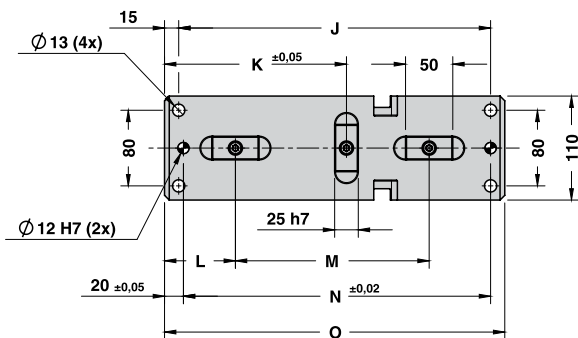
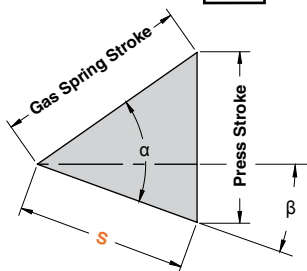
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

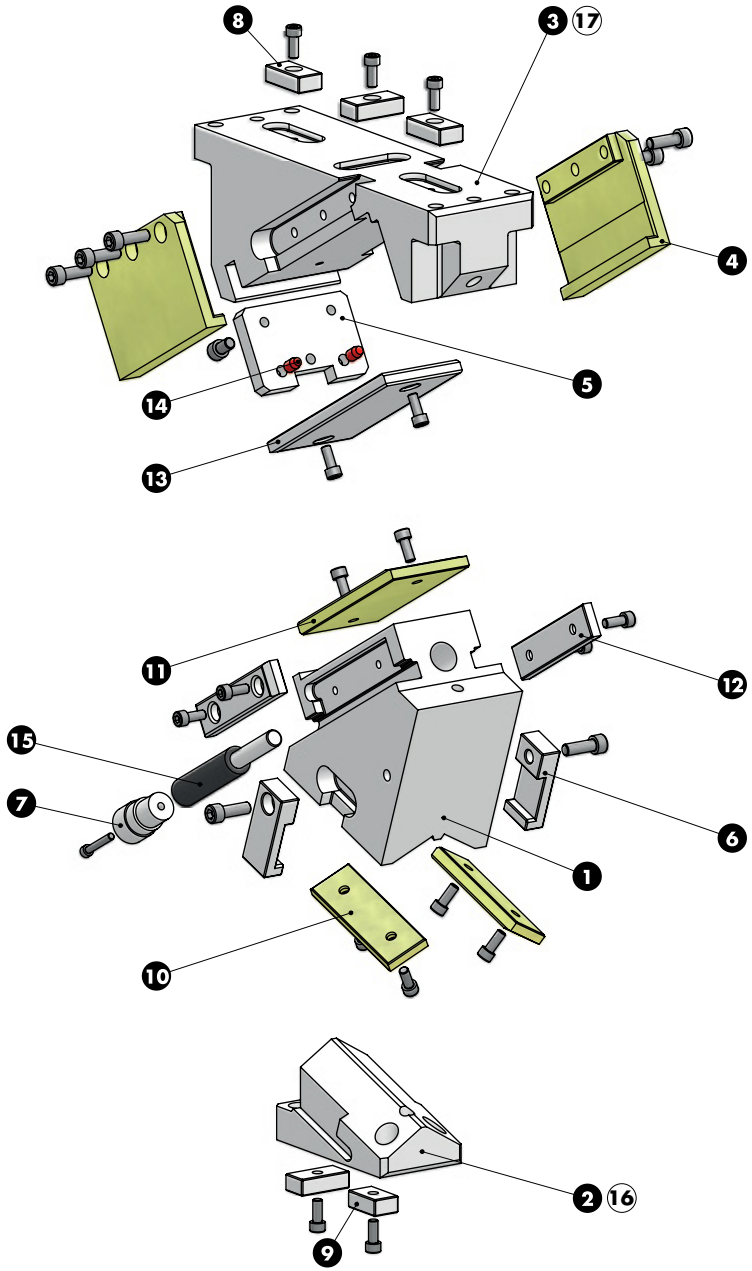


Cam Units CHY

CAM DIAGRAM

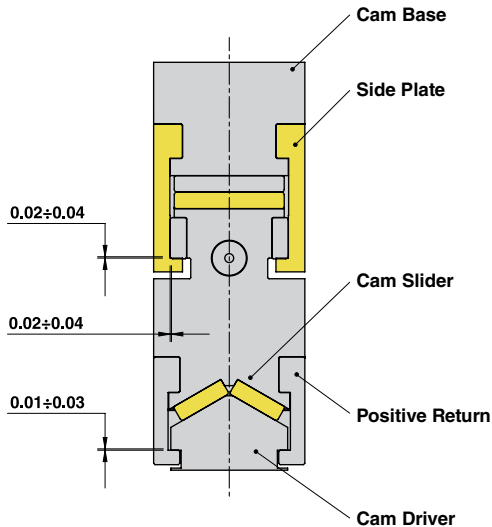


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

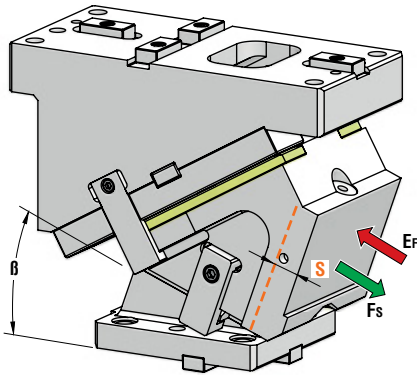
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHY

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	2
7	Spring Spacer	CK45	1
8	Key	CK45	4
9	Key	CK45	1
10	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
11	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	1
12	Wear Plate VDI 3357	CK45	2
13	Wear Plate VDI 3357	CK45	1
14	Elastomer Cap	Elastomer 92SH	2
15	Gas Spring	-	1
16	Cam Driver Fixing Screws M12x35 DIN 912	-	4
17	Cam Base Fixing Screws M12x45 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Gas Spring
CHY165.00	0°	32,14	183	8,06
CHY165.05	5°	35,49	183	8,06
CHY165.10	10°	38,89	183	8,06
CHY165.15	15°	42,40	183	8,06
CHY165.20	20°	46,08	183	8,06
CHY165.25	25°	50	183	8,06
CHY165.30	30°	54,25	183	8,06
CHY165.35	35°	58,96	183	8,06
CHY165.40	40°	64,28	183	8,06
CHY165.45	45°	70,44	183	8,06
CHY165.50	50°	77,79	183	8,06
CHY165.55	55°	61,02	183	6,65
CHY165.60	60°	40	183	5,08
CHY165.65	65°	47,32	183	4,29
CHY165.70	70°	58,48	183	3,47
CHY165.75	75°	57,96	183	2,41

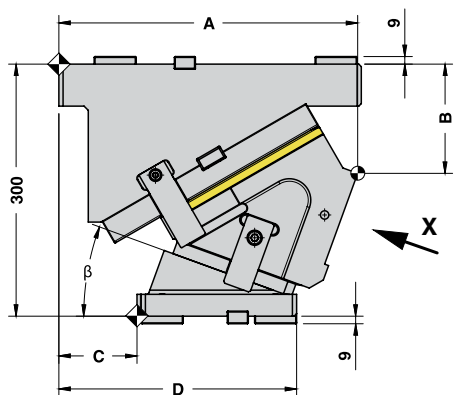
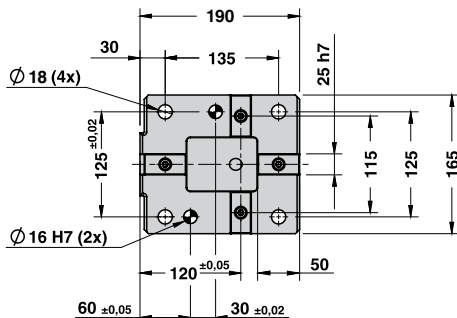
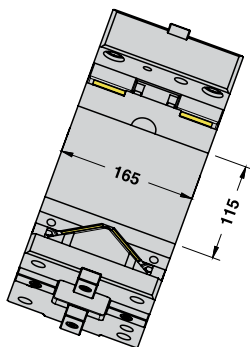


Art.	Work Angle = 5°
CHY165	05

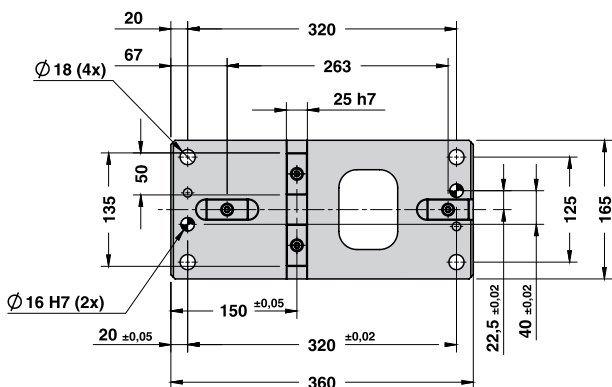
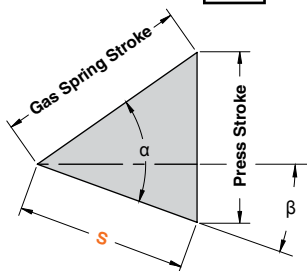
OMCR CODE	Work Angle	Overall Dimensions (mm)			
		A	B	C	D
CHY165.00	0°	360	95	150	340
CHY165.05	5°	356,25	100,91	134	324
CHY165.10	10°	359,27	111,09	118	308
CHY165.15	15°	355,78	122,47	111	301
CHY165.20	20°	355,68	130	93	283
CHY165.25	25°	354,25	138,92	80	270
CHY165.30	30°	357,28	148,28	70	260
CHY165.35	35°	345,80	158,89	64	254
CHY165.40	40°	344,27	170,38	58	248
CHY165.45	45°	344,86	182,66	40	230
CHY165.50	50°	327,27	195,63	10	200
CHY165.55	55°	324,39	210,20	0	190
CHY165.60	60°	317,59	215,63	-7	183
CHY165.65	65°	314,23	231,40	-15	185
CHY165.70	70°	308,07	245,67	-25	175
CHY165.75	75°	301,08	260,24	-35	165

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

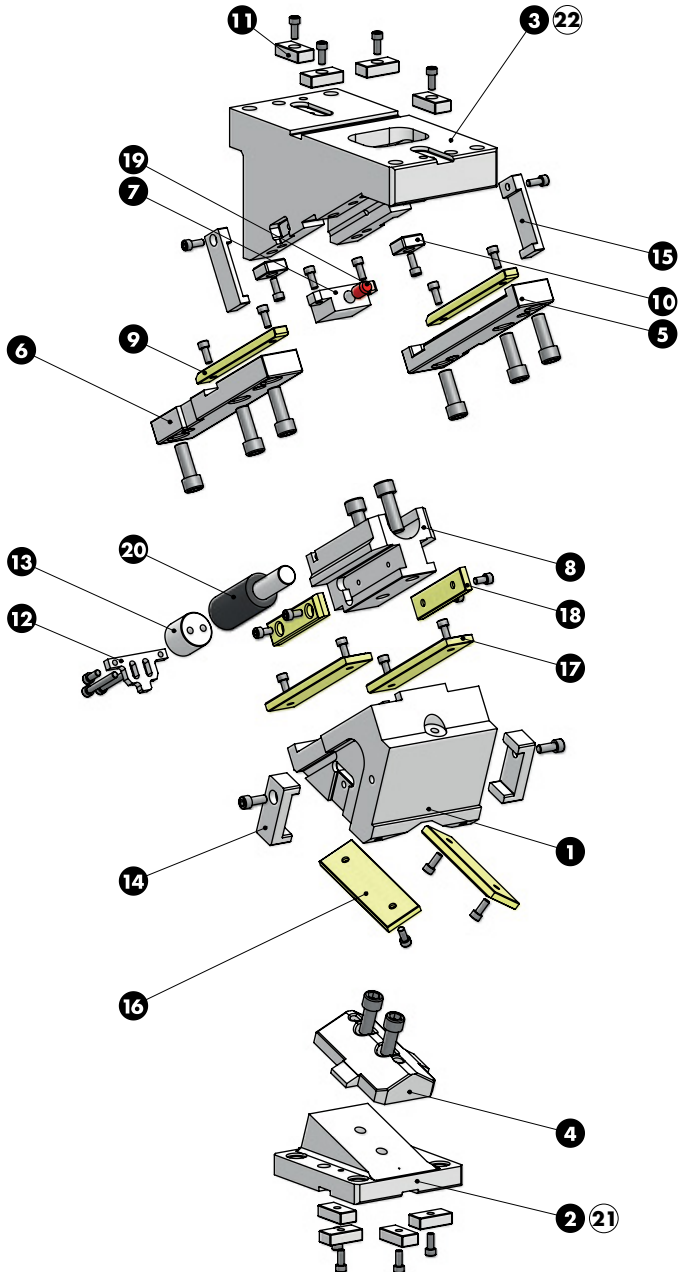
X VIEW



CAM DIAGRAM

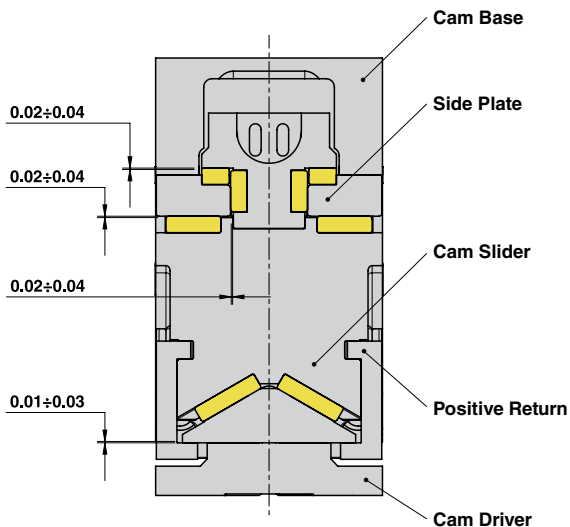


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



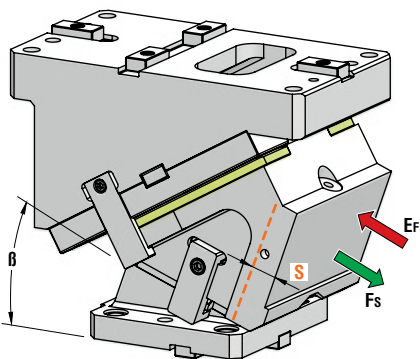
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
10	Key	CK45	2
11	Key	CK45	8
12	Spring Stopper Plate	CK45	1
13	Spring Spacer	CK45	1
14	Positive Return	42CrMo4 Nitrided	2
15	Positive Return	CK45	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
19	Elastomer Cap	Elastomer 92SH	1
20	Gas Spring	-	1
21	Cam Driver Fixing Screws M16x55 DIN 912	-	4
22	Cam Base Fixing Screws M16x80 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	Fs	Ef Gas Spring
CHY200.00	0°	32,14	230	8,06
CHY200.05	5°	35,49	230	8,06
CHY200.10	10°	38,89	230	8,06
CHY200.15	15°	42,40	230	8,06
CHY200.20	20°	46,08	230	8,06
CHY200.25	25°	50	230	8,06
CHY200.30	30°	54,25	230	8,06
CHY200.35	35°	58,96	230	8,06
CHY200.40	40°	64,28	230	8,06
CHY200.45	45°	70,44	230	8,06
CHY200.50	50°	77,79	230	8,06
CHY200.55	55°	82,30	230	6,18
CHY200.60	60°	60	230	5,38
CHY200.65	65°	70,99	230	4,55
CHY200.70	70°	58,48	230	3,47
CHY200.75	75°	77,27	230	2,63

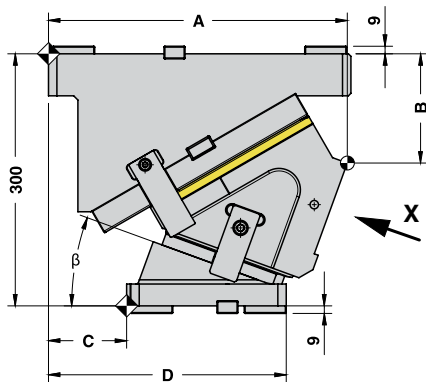
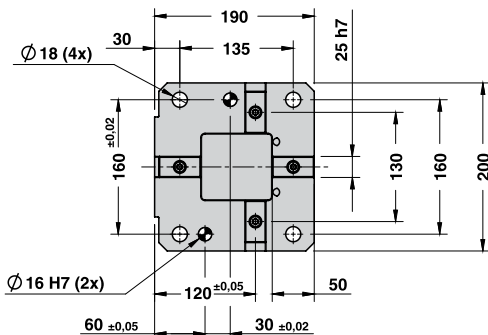
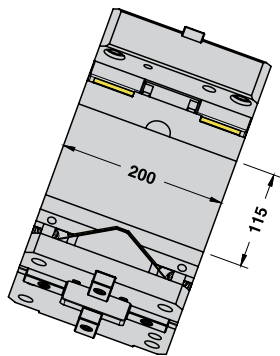


Art.	Work Angle = 5°
CHY200	05

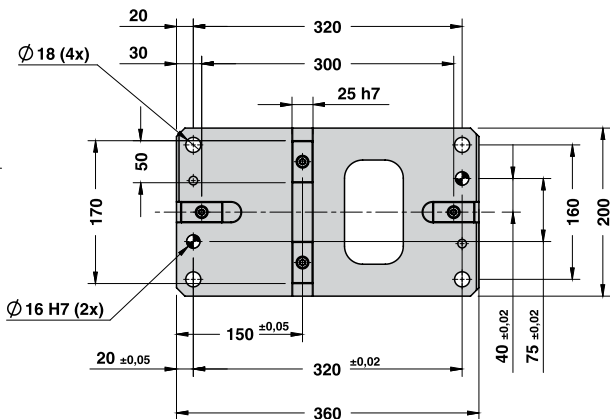
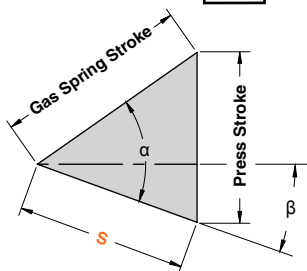
OMCR CODE	Work Angle	Overall Dimensions (mm)			
		A	B	C	D
CHY200.00	0°	360	95	150	340
CHY200.05	5°	356,25	100,91	134	324
CHY200.10	10°	359,27	111,09	118	308
CHY200.15	15°	355,78	122,47	111	301
CHY200.20	20°	355,68	130	93	283
CHY200.25	25°	354,88	138,62	80	270
CHY200.30	30°	357,28	148,28	70	260
CHY200.35	35°	345,80	158,89	64	254
CHY200.40	40°	344,27	170,38	58	248
CHY200.45	45°	344,86	182,66	40	230
CHY200.50	50°	327,27	195,63	10	200
CHY200.55	55°	324,39	210,20	0	190
CHY200.60	60°	317,59	215,63	-7	183
CHY200.65	65°	319,23	231,40	-15	175
CHY200.70	70°	313,07	245,67	-25	165
CHY200.75	75°	306,08	260,24	-35	155

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

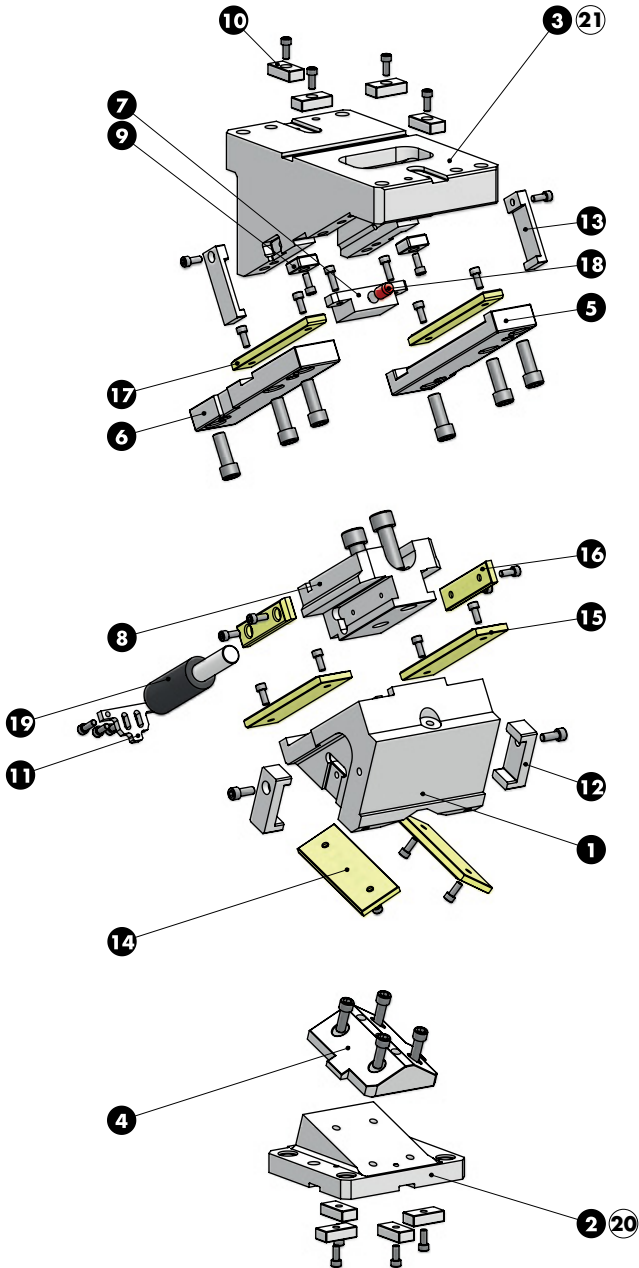


CAM DIAGRAM



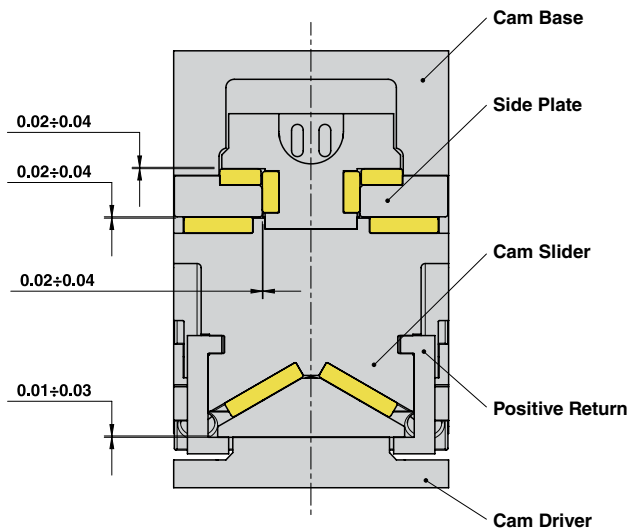
Cam Units CHY

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

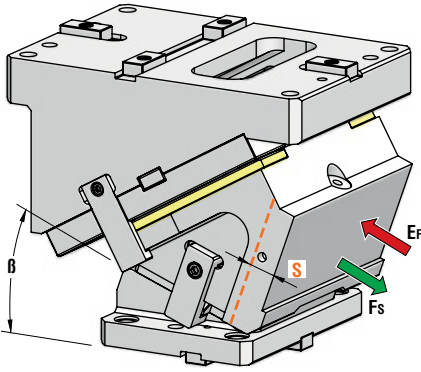
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHY

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Key	CK45	2
10	Key	CK45	8
11	Spring Stopper Plate	CK45	1
12	Positive Return	42CrMo4 Nitrided	2
13	Positive Return	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Elastomer Cap	Elastomer 92SH	1
19	Gas Spring	-	1
20	Cam Driver Fixing Screws M16x55 DIN 912	-	4
21	Cam Base Fixing Screws M16x80 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	β	S	Fs	Gas Spring
CHY250.00	0°	32,14	302	16,12
CHY250.05	5°	35,49	302	16,12
CHY250.10	10°	38,89	302	16,12
CHY250.15	15°	42,40	302	16,12
CHY250.20	20°	46,08	302	16,12
CHY250.25	25°	50	302	16,12
CHY250.30	30°	54,25	302	16,12
CHY250.35	35°	58,96	302	16,12
CHY250.40	40°	64,28	302	16,12
CHY250.45	45°	70,44	302	16,12
CHY250.50	50°	77,79	302	16,12
CHY250.55	55°	82,30	302	12,35
CHY250.60	60°	60	302	10,77
CHY250.65	65°	70,99	302	9,10
CHY250.70	70°	58,48	302	6,94
CHY250.75	75°	77,27	302	5,26

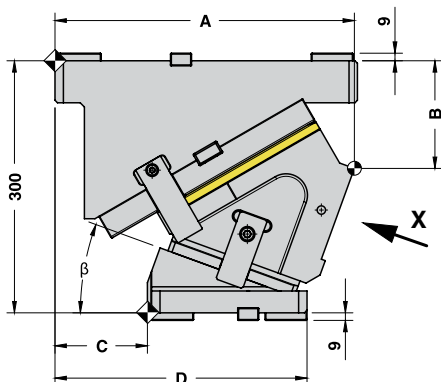
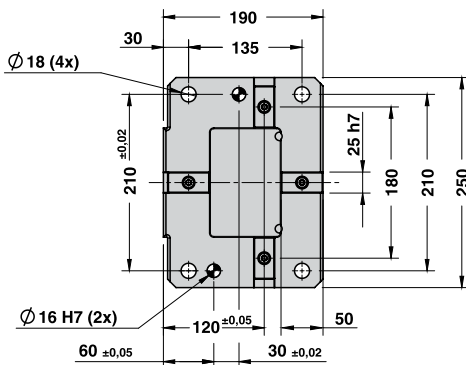
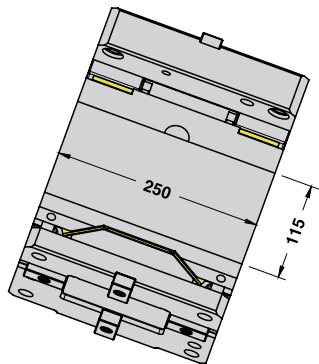


Art.	Work Angle = 5°
CHY250	05

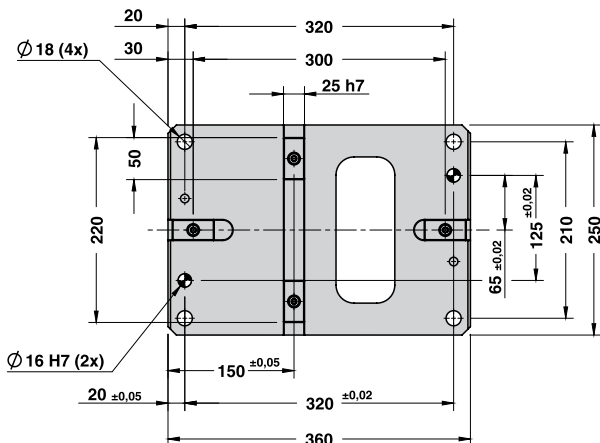
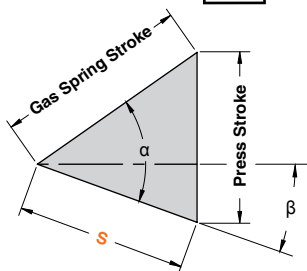
OMCR CODE	Work Angle	Overall Dimensions (mm)			
		A	B	C	D
CHY250.00	0°	360	95	150	340
CHY250.05	5°	356,43	98,92	134	324
CHY250.10	10°	359,62	109,12	118	308
CHY250.15	15°	356,30	120,53	111	301
CHY250.20	20°	356,37	128,12	93	283
CHY250.25	25°	355,73	136,81	80	270
CHY250.30	30°	358,28	146,55	70	260
CHY250.35	35°	346,94	157,25	64	254
CHY250.40	40°	345,56	168,85	58	248
CHY250.45	45°	346,27	181,24	40	230
CHY250.50	50°	328,80	194,34	10	200
CHY250.55	55°	326,84	208,48	0	190
CHY250.60	60°	320,19	214,13	-7	183
CHY250.65	65°	319,23	231,40	-15	175
CHY250.70	70°	313,07	245,67	-25	165
CHY250.75	75°	306,08	260,24	-35	155

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

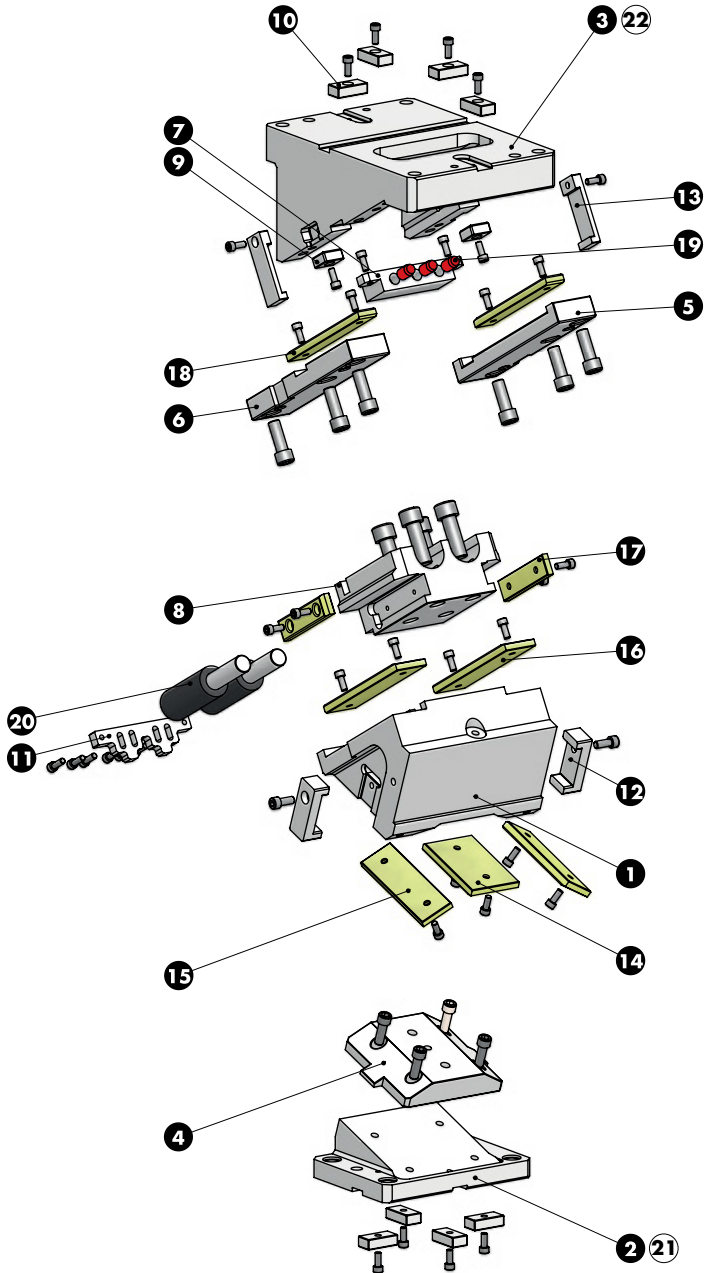
X VIEW



CAM DIAGRAM

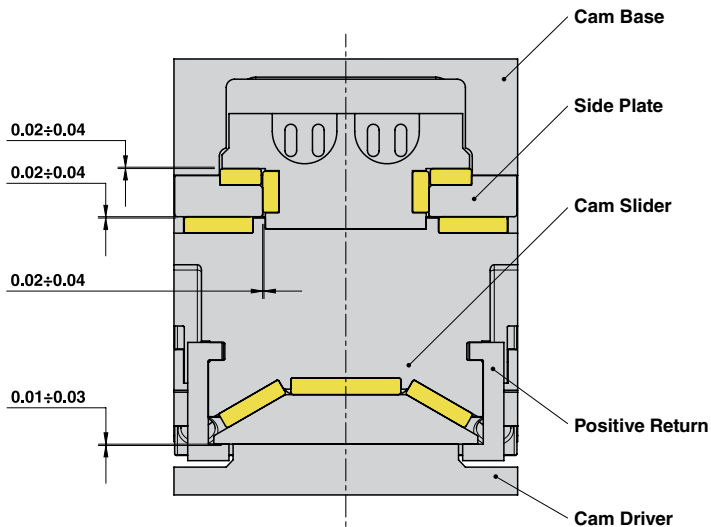


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

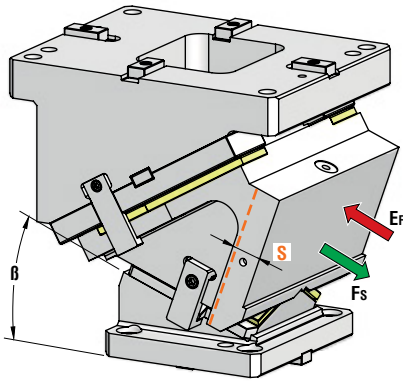
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHY

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Key	CK45	2
10	Key	CK45	8
11	Gas Spring Stopper Plate	CK45	1
12	Positive Return	42CrMo4 Nitrided	2
13	Positive Return	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	1
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
19	Elastomer Cap	Elastomer 92SH	3
20	Gas Spring	-	2
21	Cam Driver Fixing Screws M16x55 DIN 912	-	4
22	Cam Base Fixing Screws M16x80 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Gas Spring
CHY300.00	0°	38,57	389	15,58
CHY300.05	5°	42,59	389	15,58
CHY300.10	10°	46,67	389	15,58
CHY300.15	15°	50,88	389	15,58
CHY300.20	20°	55,30	389	15,58
CHY300.25	25°	60	389	15,58
CHY300.30	30°	65,10	389	15,58
CHY300.35	35°	70,75	389	15,58
CHY300.40	40°	77,13	389	15,58
CHY300.45	45°	84,53	389	15,58
CHY300.50	50°	93,34	389	15,58
CHY300.55	55°	104,61	389	13,90
CHY300.60	60°	120	389	12,12
CHY300.65	65°	94,65	389	9,38
CHY300.70	70°	73,10	389	6,87
CHY300.75	75°	96,59	389	5,20

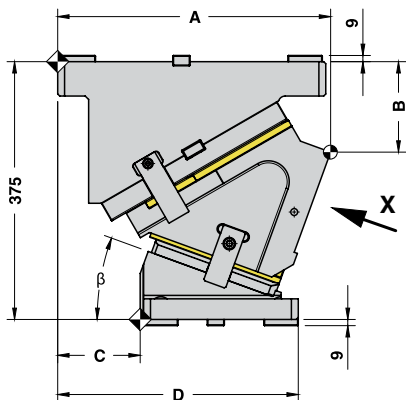
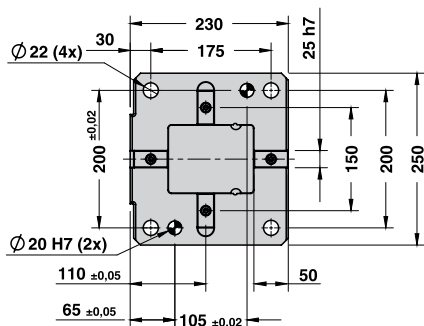
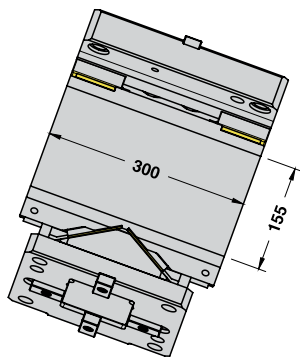


Art.	Work Angle = 5°
CHY300	05

OMCR CODE	Work Angle	Overall Dimensions (mm)						
		B	A	B	C	D	E	F
CHY300.00	0°	395	98	163	393	340	390	330
CHY300.05	5°	387,15	104,19	155	385	340	390	330
CHY300.10	10°	394,13	111,86	145	375	340	390	330
CHY300.15	15°	395,82	121,01	135	365	340	390	330
CHY300.20	20°	397,08	131,59	120	350	340	390	330
CHY300.25	25°	404,71	138,65	110	340	350	400	340
CHY300.30	30°	408,22	146,89	85	315	350	400	340
CHY300.35	35°	404,52	159,17	70	300	350	400	340
CHY300.40	40°	400,46	167,30	55	285	350	400	340
CHY300.45	45°	394,84	179,24	40	270	350	400	340
CHY300.50	50°	393,35	196,04	17	247	360	410	350
CHY300.55	55°	393,35	222,75	0	230	360	410	350
CHY300.60	60°	393,35	249,61	-10	220	360	410	350
CHY300.65	65°	387,48	266,49	-28	202	360	410	350
CHY300.70	70°	378,65	281,99	-45	185	360	410	350
CHY300.75	75°	364,72	296,88	-65	165	360	410	350

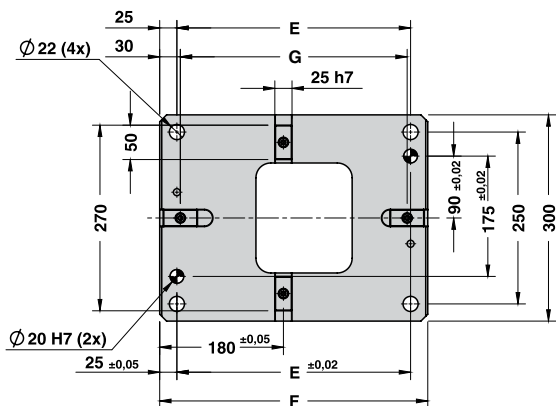
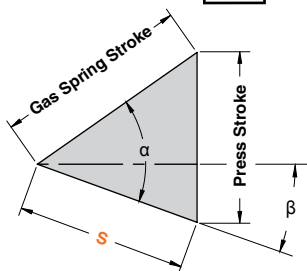
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

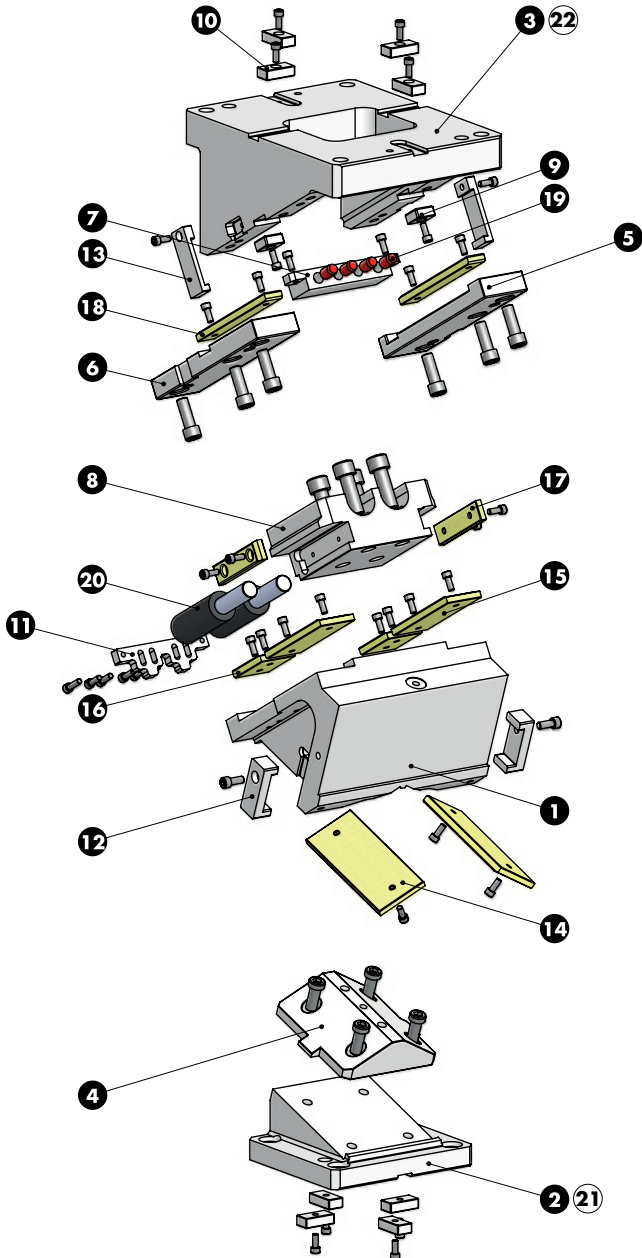


Cam Units CHY

CAM DIAGRAM

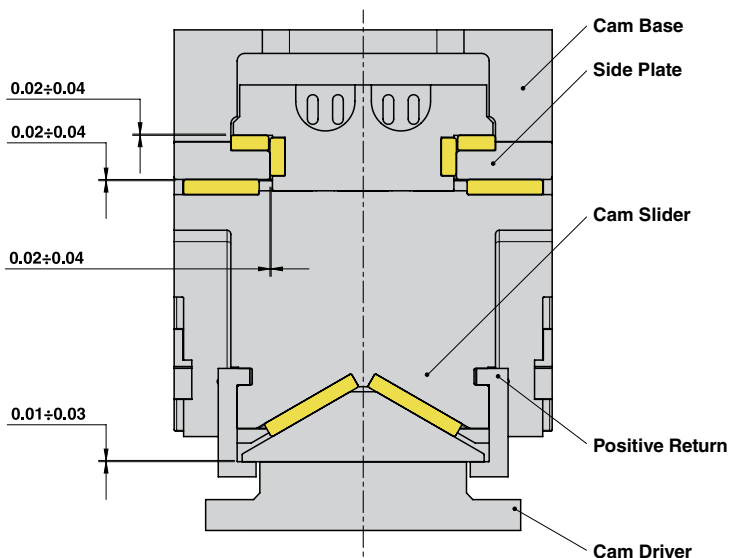


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



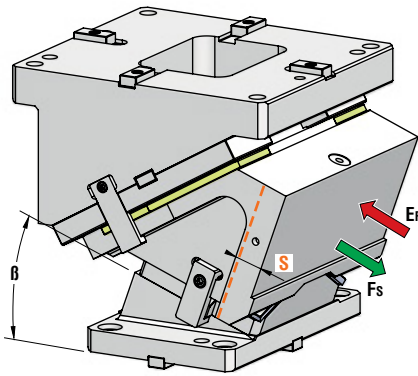
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Key	CK45	2
10	Key	CK45	8
11	Spring Stopper Plate	CK45	1
12	Positive Return	42CrMo4 Nitrided	2
13	Positive Return	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
19	Elastomer Cap	Elastomer 92SH	4
20	Gas Spring	-	2
21	Cam Driver Fixing Screws M20x65 DIN 912	-	4
22	Cam Base Fixing Screws M20x80 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Gas Spring
CHY350.00	0°	38,57	428	29,31
CHY350.05	5°	42,59	428	29,31
CHY350.10	10°	46,67	428	29,31
CHY350.15	15°	50,88	428	29,31
CHY350.20	20°	55,30	428	29,31
CHY350.25	25°	60	428	29,31
CHY350.30	30°	65,10	428	29,31
CHY350.35	35°	70,75	428	29,31
CHY350.40	40°	77,13	428	29,31
CHY350.45	45°	84,53	428	29,31
CHY350.50	50°	93,34	428	29,31
CHY350.55	55°	87,17	428	24,49
CHY350.60	60°	90	428	21,99
CHY350.65	65°	94,65	428	17,53
CHY350.70	70°	87,71	428	13,90
CHY350.75	75°	96,59	428	9,80

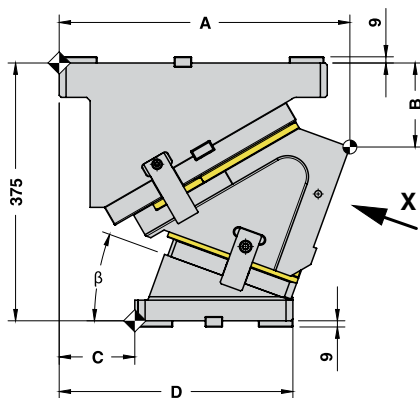
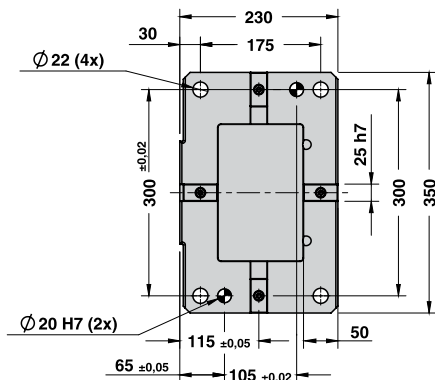
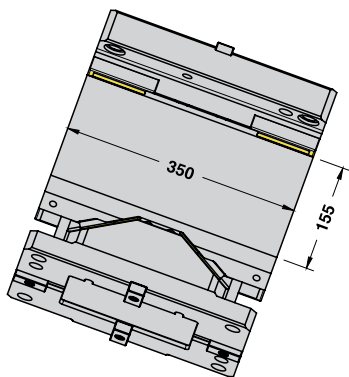


Art.	Work Angle = 5°
CHY350	05

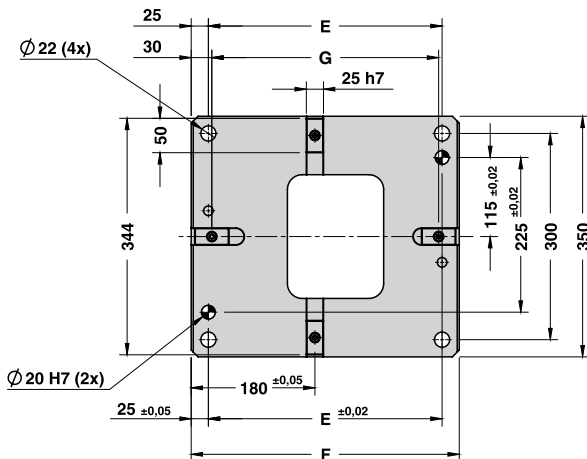
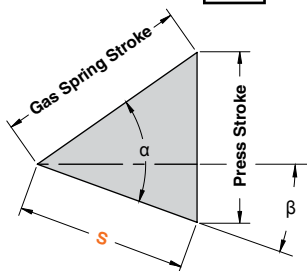
OMCR CODE	Work Angle	Overall Dimensions (mm)						
		B	A	B	C	D	E	F
CHY350.00	0°	395	85	160	390	340	390	330
CHY350.05	5°	409,62	95,02	155	385	340	390	330
CHY350.10	10°	414,52	104,67	140	370	340	390	330
CHY350.15	15°	408,60	113,76	115	345	340	390	330
CHY350.20	20°	422,92	122,21	110	340	360	410	350
CHY350.25	25°	421,53	129,96	90	320	360	410	350
CHY350.30	30°	418,50	136,94	70	300	360	410	350
CHY350.35	35°	415,89	153,12	50	280	360	410	350
CHY350.40	40°	410,78	168,43	30	260	360	410	350
CHY350.45	45°	405,25	182,84	10	240	360	410	350
CHY350.50	50°	397,37	201,32	-10	220	360	410	350
CHY350.55	55°	398,61	214,69	-20	210	360	410	350
CHY350.60	60°	392,76	235,67	-35	195	360	410	350
CHY350.65	65°	398,83	255,31	-40	190	360	410	350
CHY350.70	70°	394,78	274,53	-50	180	360	410	350
CHY350.75	75°	394,55	295,21	-55	175	360	410	350

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

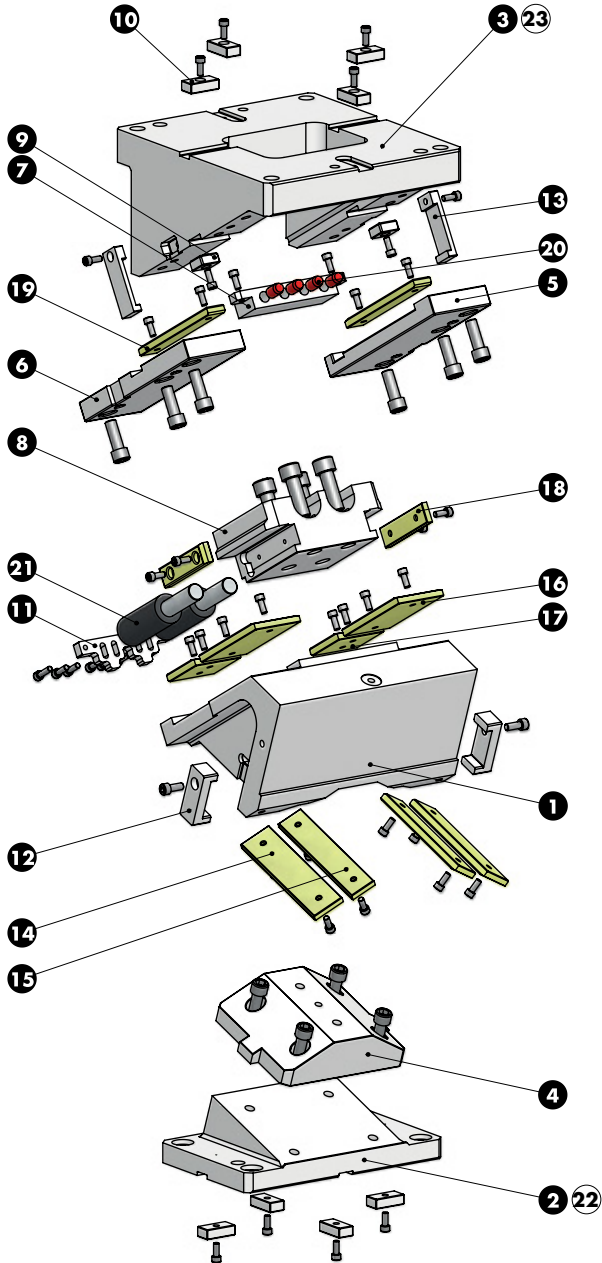
X VIEW



CAM DIAGRAM

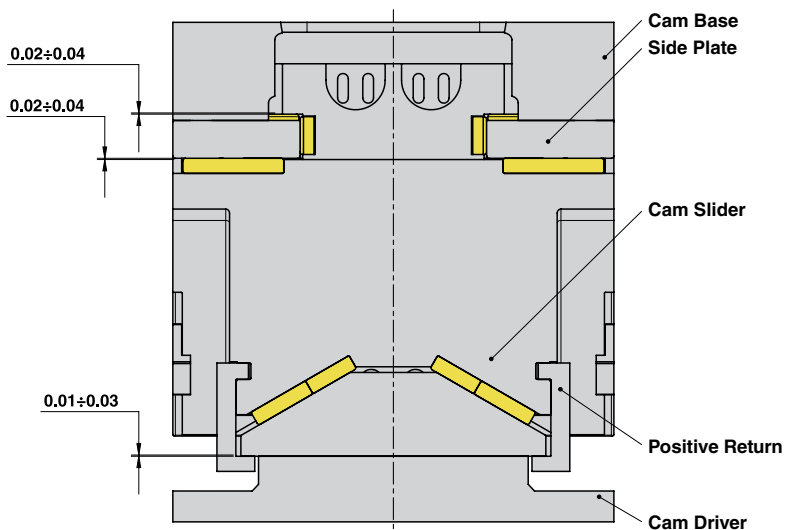


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



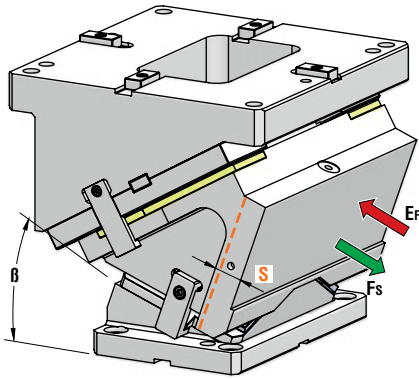
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Key	CK45	2
10	Key	CK45	8
11	Spring Stopper Plate	CK45	1
12	Positive Return	42CrMo4 Nitrided	2
13	Positive Return	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
19	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
20	Elastomer Cap	Elastomer 92SH	4
21	Gas Spring	-	2
22	Cam Driver Fixing Screws M20x65 DIN 912	-	4
23	Cam Base Fixing Screws M20x80 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Gas Spring
	B	S	Fs	Ef
CHY400.00	0°	38,57	473	23,37
CHY400.05	5°	42,59	473	23,37
CHY400.10	10°	46,67	473	23,37
CHY400.15	15°	50,88	473	23,37
CHY400.20	20°	55,30	473	23,37
CHY400.25	25°	60	473	23,37
CHY400.30	30°	65,10	473	23,37
CHY400.35	35°	70,75	473	23,37
CHY400.40	40°	77,13	473	23,37
CHY400.45	45°	84,53	473	23,37
CHY400.50	50°	93,34	473	23,37
CHY400.55	55°	104,61	473	20,86
CHY400.60	60°	120	473	18,18
CHY400.65	65°	94,65	473	14,07
CHY400.70	70°	73,10	473	10,30
CHY400.75	75°	96,59	473	7,79

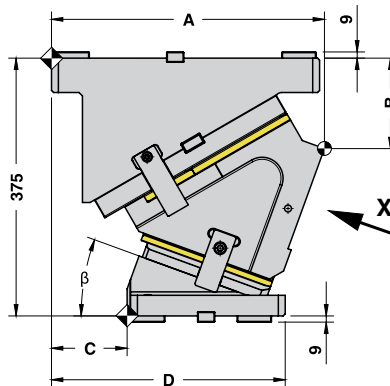
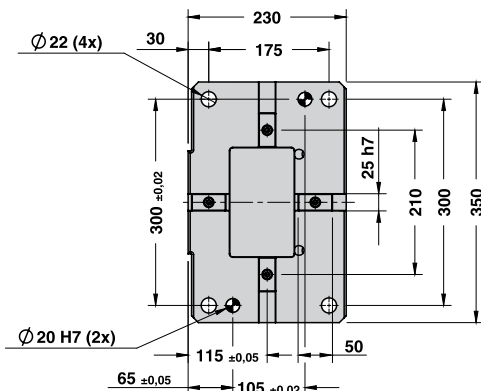
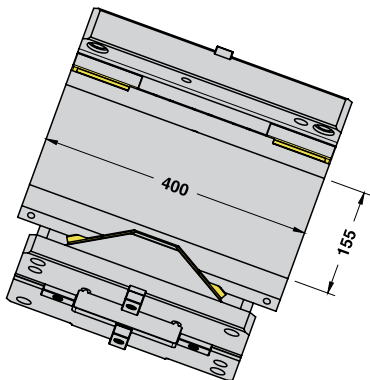


Art.	Work Angle = 5°
CHY400	05

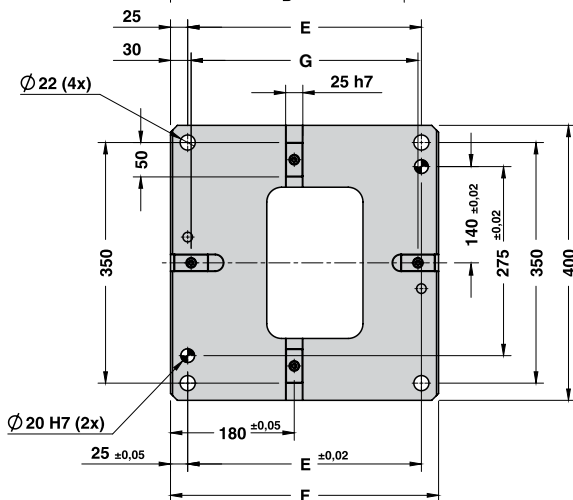
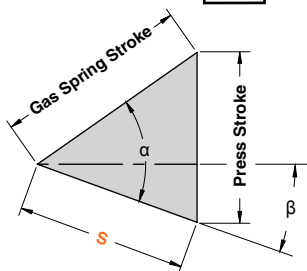
OMCR CODE	Work Angle	Overall Dimensions (mm)						
		B	A	B	C	D	E	F
CHY400.00	0°	395	88	158	388	340	390	330
CHY400.05	5°	387,16	94,19	155	385	340	390	330
CHY400.10	10°	394,13	106,86	145	375	340	390	330
CHY400.15	15°	395,82	118,01	135	365	340	390	330
CHY400.20	20°	397,08	131,59	100	330	350	400	340
CHY400.25	25°	404,71	138,65	85	315	350	400	340
CHY400.30	30°	408,22	146,89	65	295	350	400	340
CHY400.35	35°	404,52	159,17	50	280	350	400	340
CHY400.40	40°	400,46	167,30	40	270	350	400	340
CHY400.45	45°	394,84	179,24	20	250	350	400	340
CHY400.50	50°	393,35	196,04	2	232	360	410	350
CHY400.55	55°	392,76	221,83	-13	217	360	410	350
CHY400.60	60°	393,35	249,61	-30	200	360	410	350
CHY400.65	65°	387,48	266,49	-48	182	360	410	350
CHY400.70	70°	378,65	281,99	-65	165	360	410	350
CHY400.75	75°	364,72	296,88	-85	145	360	410	350

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

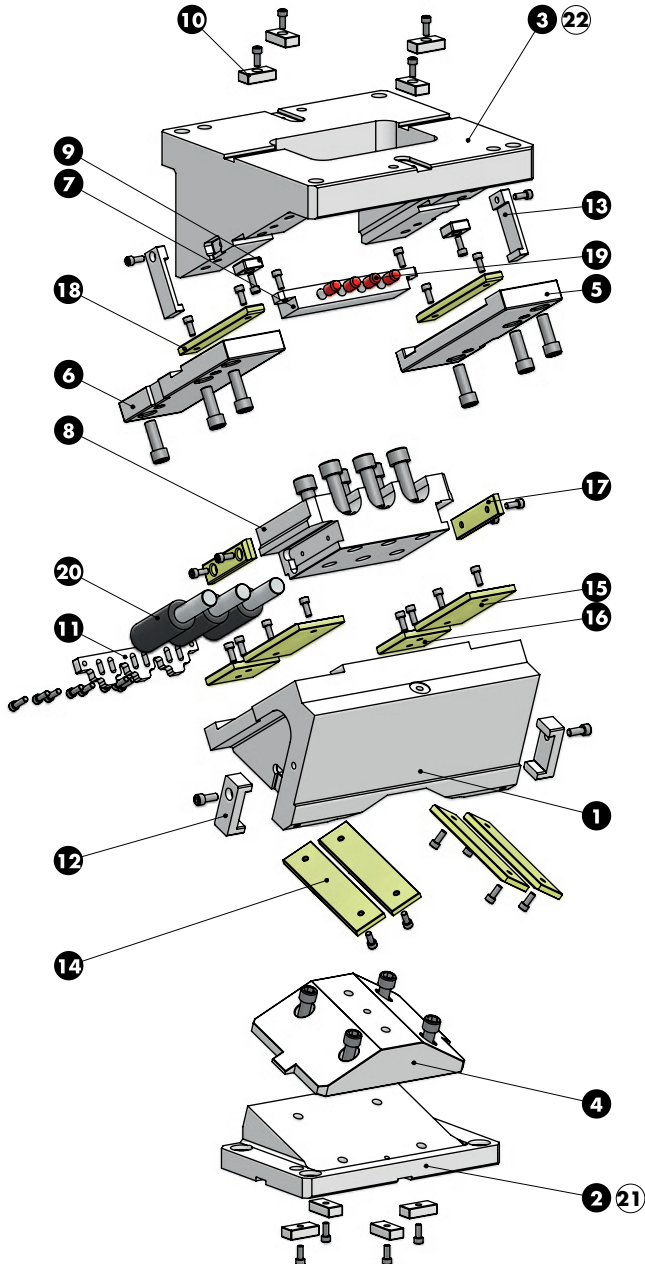
X VIEW



CAM DIAGRAM

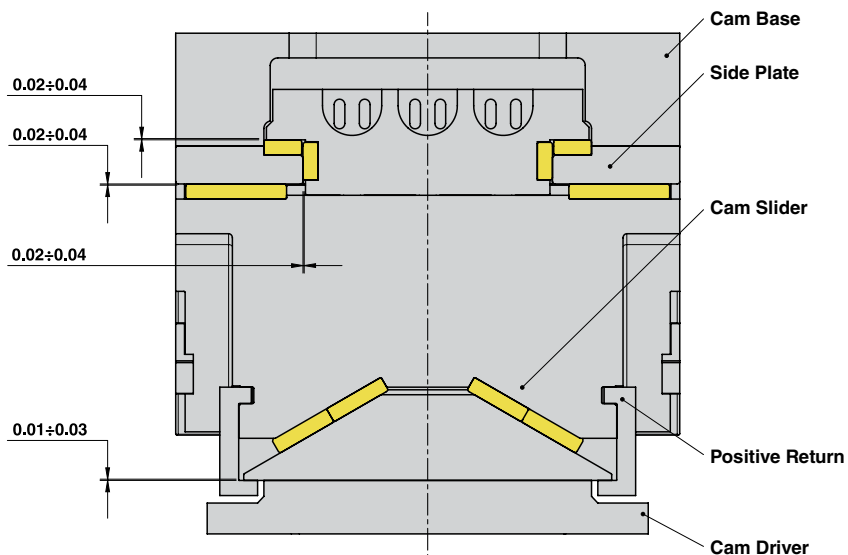


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

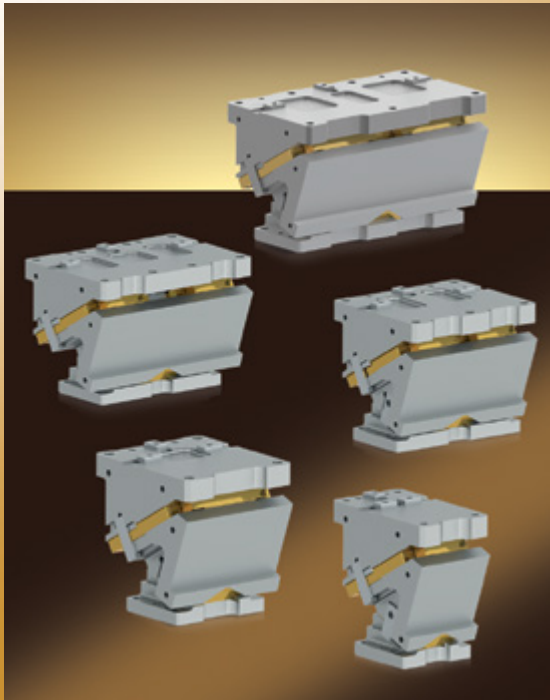


Particular number	Description	Material	Quantity
1	Cam Slider	GGG-60	1
2	Cam Driver	GGG-60	1
3	Cam Base	GGG-60	1
4	Male "V" Driver	CK45	1
5	Side Plate R	CK45	1
6	Side Plate L	CK45	1
7	Stopper Plate	CK45	1
8	Spring Guide Block	CK45	1
9	Key	CK45	2
10	Key	CK45	8
11	Spring Stopper Plate	CK45	1
12	Positive Return	42CrMo4 Nitrided	2
13	Positive Return	CK45	2
14	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	4
15	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
17	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
18	Wear Plate VDI 3357	CuZn25Al5 + Graphite - HB > 190	2
19	Elastomer Cap	Elastomer 92SH	4
20	Gas Spring	-	3
21	Cam Driver Fixing Screws M20x65 DIN 912	-	4
22	Cam Base Fixing Screws M20x80 DIN 912	-	4



OMCR®

STANDARD DIE COMPONENTS

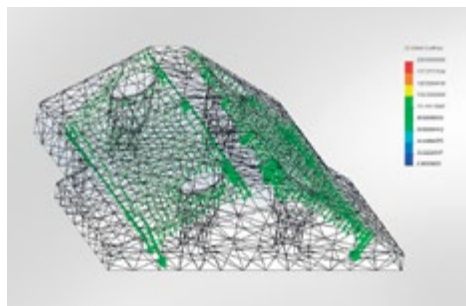


CAM UNITS CLB
SCHIEBER CLB
CAMME CLB





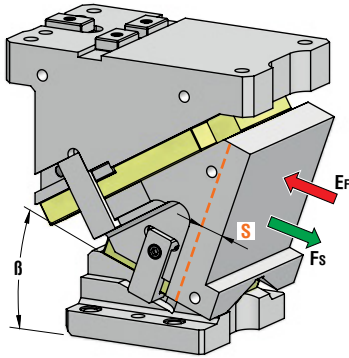
OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)	
						E _F	
	β				F _s	Spring	Gas Spring
CLB200	0°÷60° (5° steps)	200	350	200x180	302	2,12÷2,73	8,88÷11,42
CLB300	0°÷60° (5° steps)	300	350	300x180	411	4,25÷5,46	17,76÷22,83
CLB400	0°÷60° (5° steps)	400	350	400x180	526	4,25÷5,46	17,76÷22,83
CLB500	0°÷60° (5° steps)	500	350	500x180	743	6,37÷8,19	26,64÷34,25
CLB600	0°÷60° (5° steps)	600	350	600x180	865	8,50÷10,92	35,52÷45,67



Research and product development



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) F_s	Extraction Force (kN) E_f	
				Spring	Gas Spring
CLB200.00	0°	38,57	302	2,73	11,42
CLB200.05	5°	42,59	302	2,73	11,42
CLB200.10	10°	46,67	302	2,73	11,42
CLB200.15	15°	50,88	302	2,73	11,42
CLB200.20	20°	55,30	302	2,73	11,42
CLB200.25	25°	60	302	2,73	11,42
CLB200.30	30°	65,10	302	2,73	11,42
CLB200.35	35°	70,75	302	2,73	11,42
CLB200.40	40°	77,13	302	2,73	11,42
CLB200.45	45°	84,53	302	2,73	11,42
CLB200.50	50°	93,34	302	2,73	11,42
CLB200.55	55°	104,61	302	2,12	8,88
CLB200.60	60°	120	302	2,12	8,88

Return Type: **G** = Gas Spring / **S** = Spring



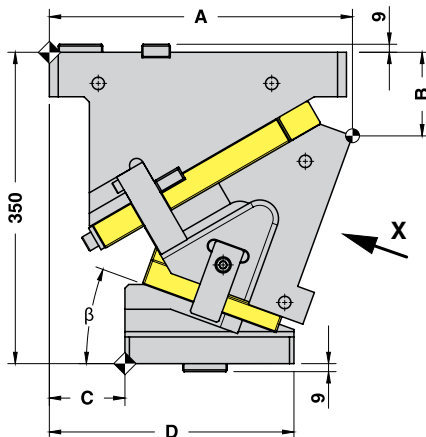
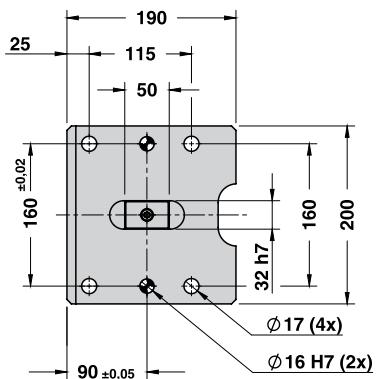
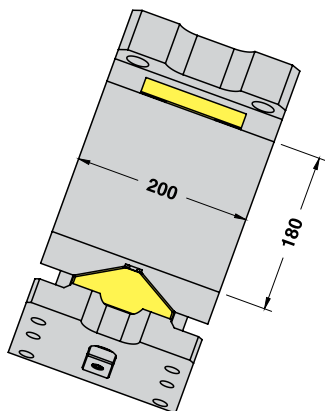
Art.	Work Angle = 5°	Return type
CLB200	05	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		A	B	C	D
CLB200.00	0°	313	58	138	328
CLB200.05	5°	320,64	64,34	125	315
CLB200.10	10°	331,08	72,47	115	305
CLB200.15	15°	336,17	82,37	100	290
CLB200.20	20°	340,76	94	85	275
CLB200.25	25°	344,69	102,32	70	260
CLB200.30	30°	347,83	112,25	55	245
CLB200.35	35°	355,03	123,73	45	235
CLB200.40	40°	351,17	136,66	25	215
CLB200.45	45°	356,12	150,95	15	205
CLB200.50	50°	348,77	161,49	-6	184
CLB200.55	55°	352,01	178,16	-15	175
CLB200.60	60°	332,75	195,83	-45	145

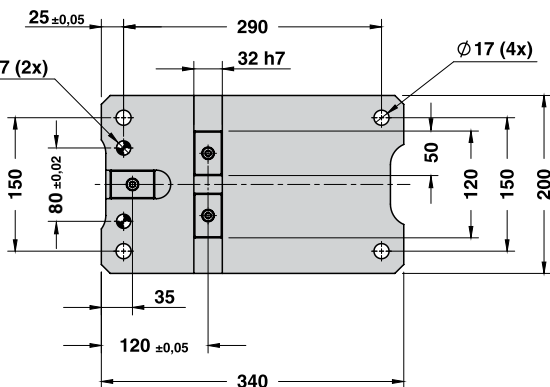
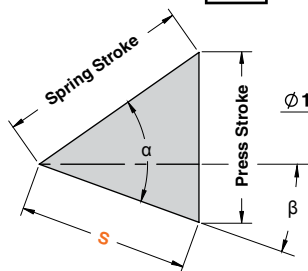


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

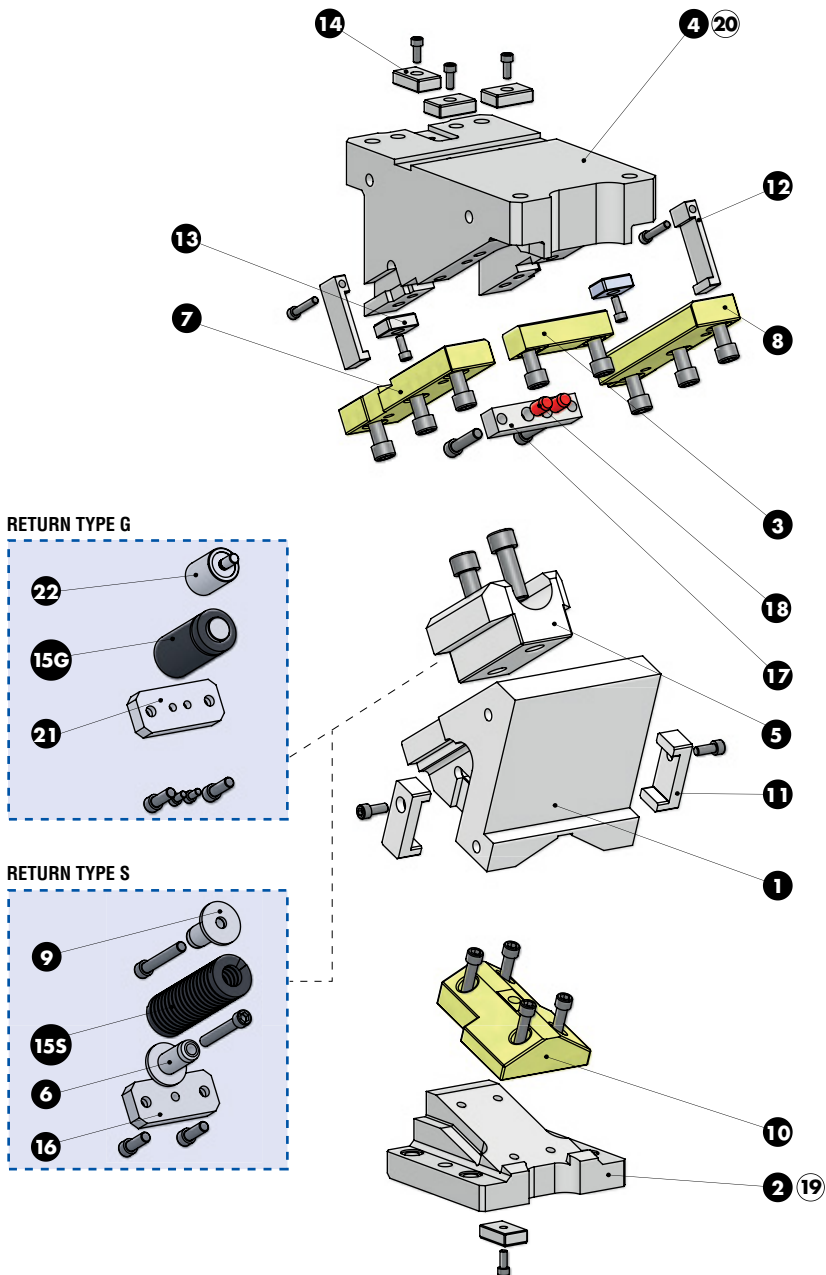


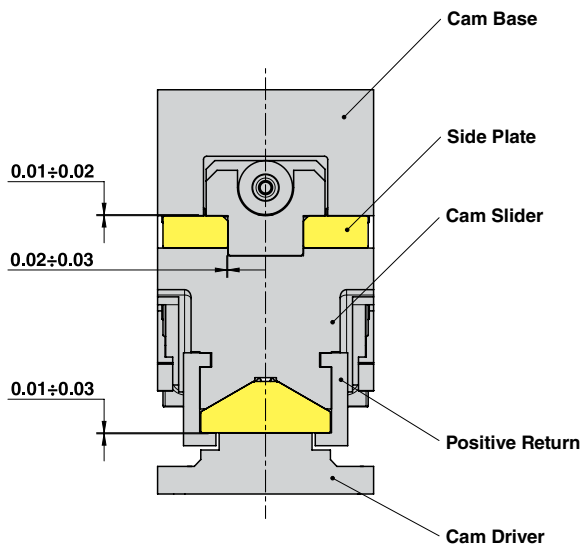
CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

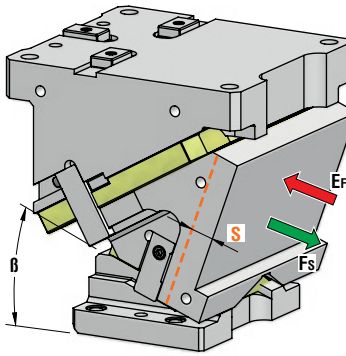



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES


Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	1
6	Spring Guide Pin	CK45	2
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
9	Washer	CK45	2
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Positive Return	42CrMo4 Nitrided	2
12	Positive Return	CK45	2
13	Key	CK45	2
14	Key	CK45	4
15G	Gas Spring - Return Type G	-	1
15S	Spring - Return Type S	-	1
19	Cam Driver Fixing Screws M16x60 DIN 912	-	4
20	Cam Base Fixing Screws M16x65 DIN 912	-	4
21	Gas Spring Stopper Plate	CK45	1
22	Gas Spring Reaction	CK45	1



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
CLB300.00	0°	38,57	411	5,46	22,83
CLB300.05	5°	42,59	411	5,46	22,83
CLB300.10	10°	46,67	411	5,46	22,83
CLB300.15	15°	50,88	411	5,46	22,83
CLB300.20	20°	55,30	411	5,46	22,83
CLB300.25	25°	60	411	5,46	22,83
CLB300.30	30°	65,10	411	5,46	22,83
CLB300.35	35°	70,75	411	5,46	22,83
CLB300.40	40°	77,13	411	5,46	22,83
CLB300.45	45°	84,53	411	5,46	22,83
CLB300.50	50°	93,34	411	5,46	22,83
CLB300.55	55°	104,61	411	4,25	17,76
CLB300.60	60°	120	411	4,25	17,76

Return Type: G = Gas Spring / S = Spring



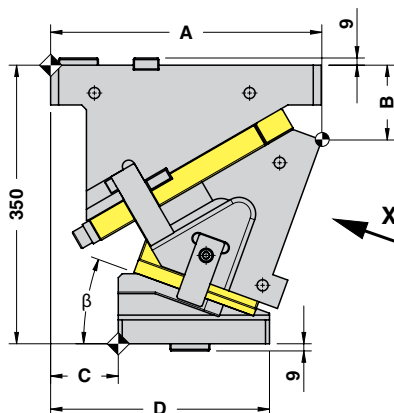
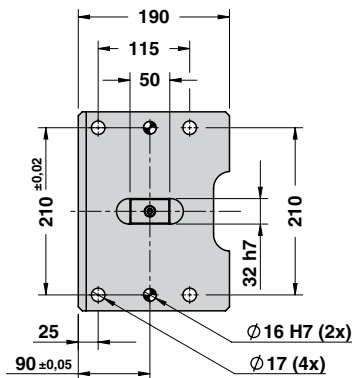
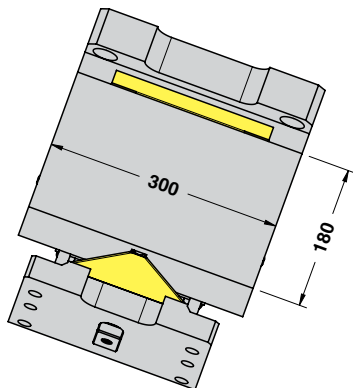
Art.	Work Angle = 5°	Return type
CLB300	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
CLB300.00	0°		313	58	138	328
CLB300.05	5°		320,64	64,34	125	315
CLB300.10	10°		331,08	72,47	115	305
CLB300.15	15°		336,17	82,37	100	290
CLB300.20	20°		340,76	94	85	275
CLB300.25	25°		344,69	102,32	70	260
CLB300.30	30°		347,83	112,25	55	245
CLB300.35	35°		355,03	123,73	45	235
CLB300.40	40°		351,17	136,66	25	215
CLB300.45	45°		356,12	150,95	15	205
CLB300.50	50°		348,77	161,49	-6	184
CLB300.55	55°		352,01	178,16	-15	175
CLB300.60	60°		332,75	195,83	-45	145

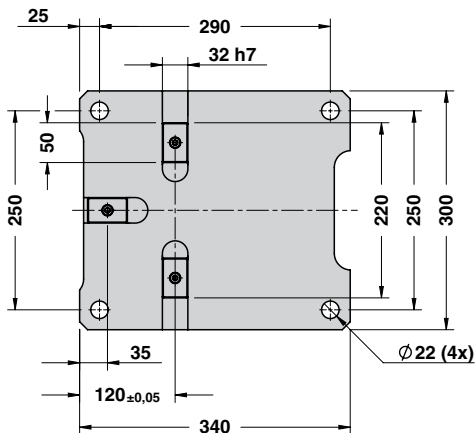
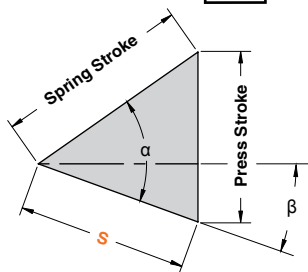


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

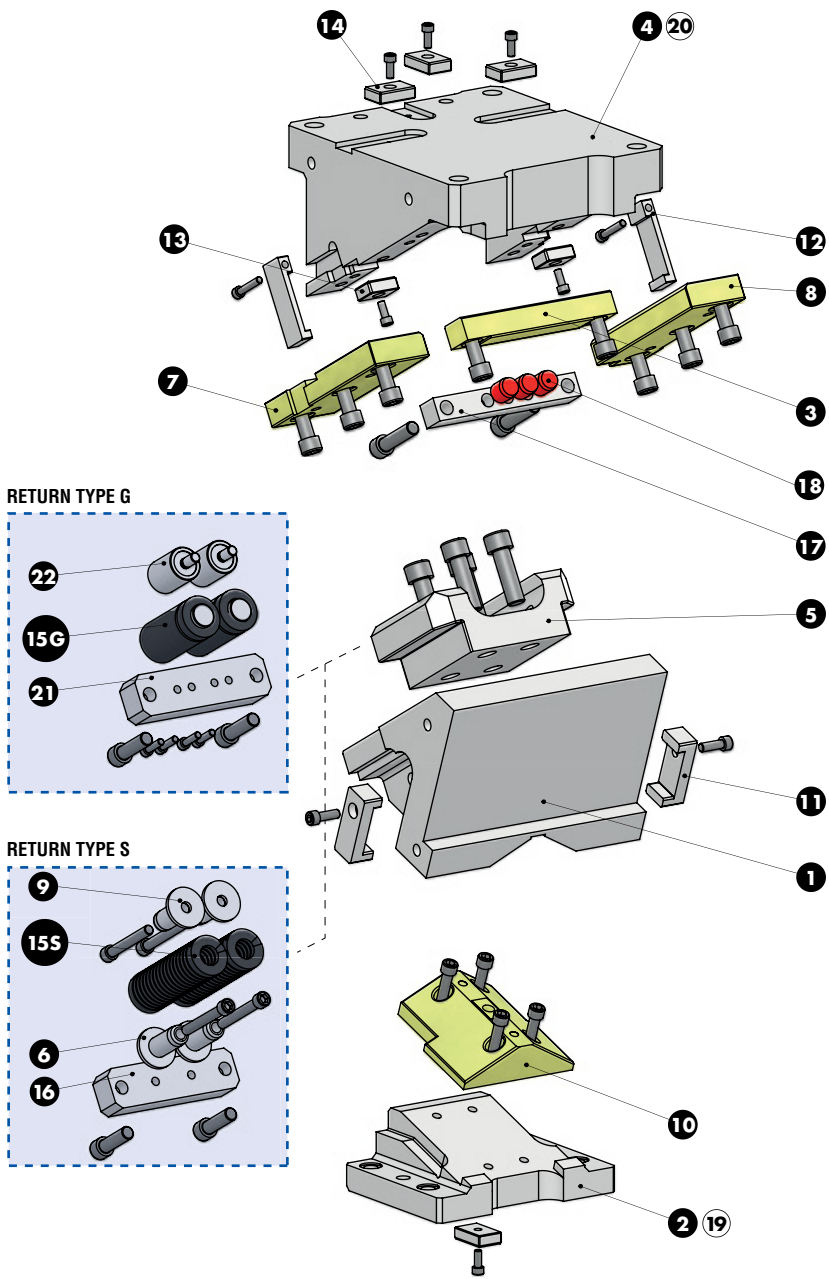


CAM DIAGRAM





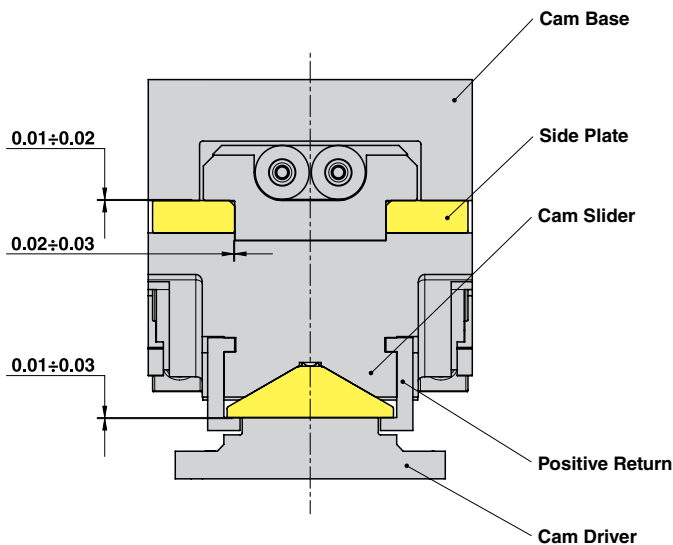
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

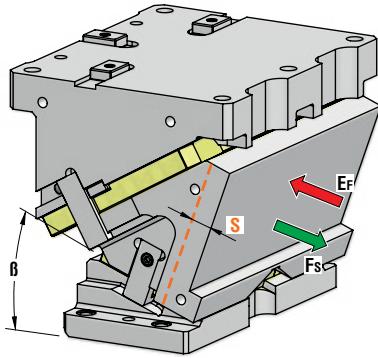
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	1
6	Spring Guide Pin	CK45	4
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
9	Washer	CK45	4
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Positive Return	42CrMo4 Nitrided	2
12	Positive Return	CK45	2
13	Key	CK45	2
14	Key	CK45	4
15G	Gas Spring - Return Type G	-	1
15S	Spring - Return Type S	-	1
16	Spring Stopper Plate	CK45	1
17	Stopper Plate	CK45	1
18	Elastomer Cap	Elastomer 92SH	3
19	Cam Driver Fixing Screws M16x60 DIN 912	-	4
20	Cam Base Fixing Screws M20x75 DIN 912	-	4
21	Gas Spring Stopper Plate	CK45	2
22	Gas Spring Reaction	CK45	2



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN) Ef	
				Spring	Gas Spring
CLB400.00	0°	38,57	526	5,46	22,83
CLB400.05	5°	42,59	526	5,46	22,83
CLB400.10	10°	46,67	526	5,46	22,83
CLB400.15	15°	50,88	526	5,46	22,83
CLB400.20	20°	55,30	526	5,46	22,83
CLB400.25	25°	60	526	5,46	22,83
CLB400.30	30°	65,10	526	5,46	22,83
CLB400.35	35°	70,75	526	5,46	22,83
CLB400.40	40°	77,13	526	5,46	22,83
CLB400.45	45°	84,53	526	5,46	22,83
CLB400.50	50°	93,34	526	5,46	22,83
CLB400.55	55°	104,61	526	4,25	17,76
CLB400.60	60°	120	526	4,25	17,76

Return Type: G = Gas Spring / S = Spring

15



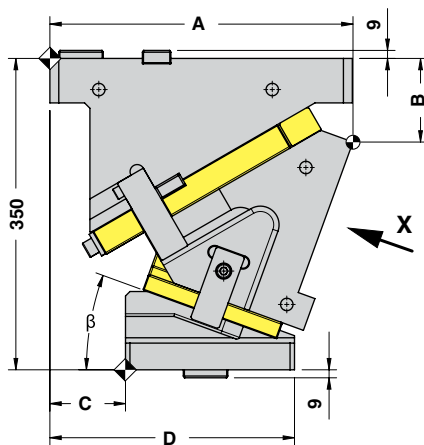
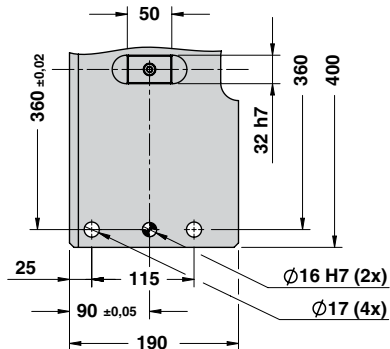
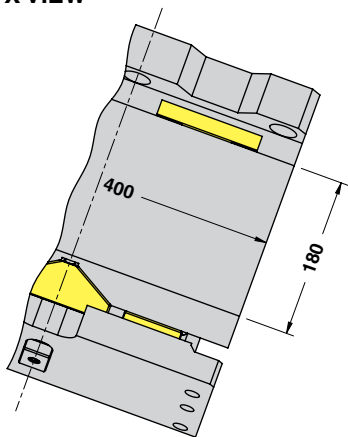
Art.	Work Angle = 5°	Return type
CLB400	05	S

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		A	B	C	D
CLB400.00	0°	313	58	138	328
CLB400.05	5°	320,64	64,34	125	315
CLB400.10	10°	331,08	72,47	115	305
CLB400.15	15°	336,17	82,37	100	290
CLB400.20	20°	340,76	94	85	275
CLB400.25	25°	344,69	102,32	70	260
CLB400.30	30°	347,83	112,25	55	245
CLB400.35	35°	355,03	123,73	45	235
CLB400.40	40°	351,17	136,66	25	215
CLB400.45	45°	356,12	150,95	15	205
CLB400.50	50°	348,77	161,49	-6	184
CLB400.55	55°	352,01	178,16	-15	175
CLB400.60	60°	332,75	195,83	-45	145

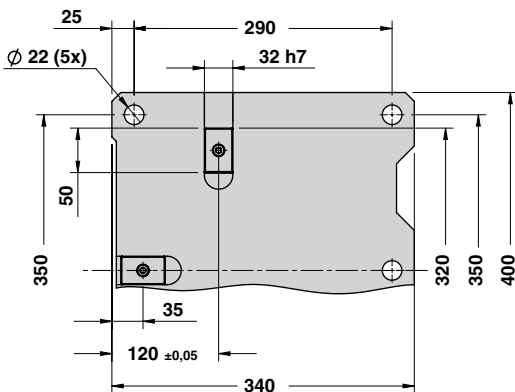
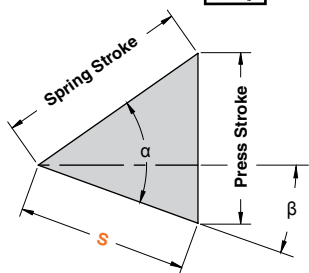


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

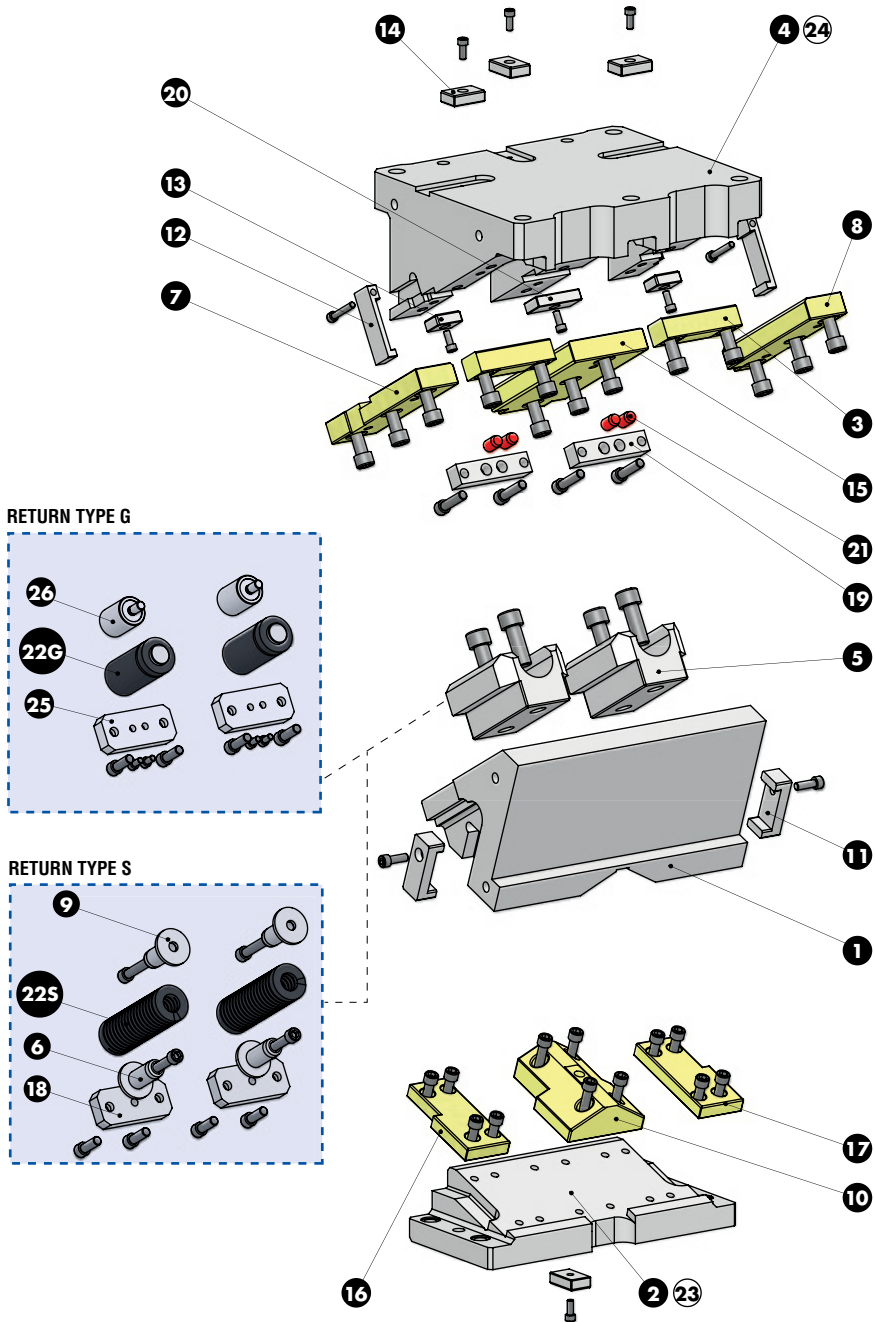


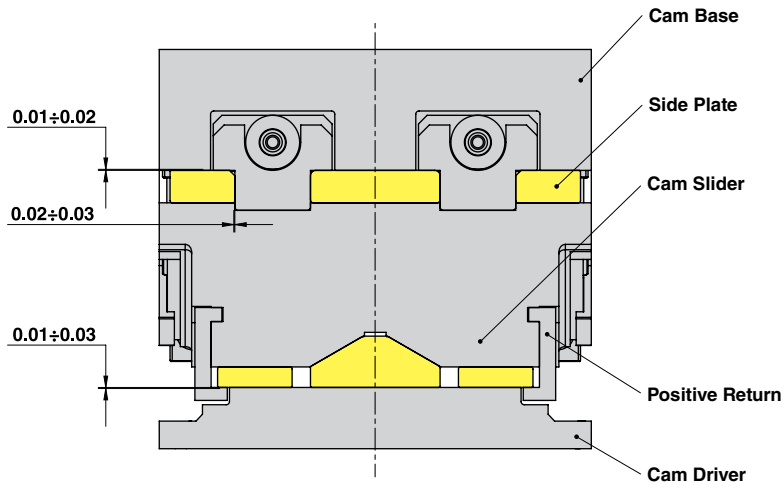
CAM DIAGRAM





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

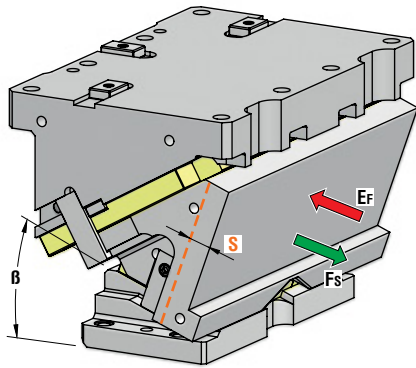



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES


Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	2
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	2
6	Spring Guide Pin	CK45	4
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
9	Washer	CK45	4
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Positive Return	42CrMo4 Nitrided	2
12	Positive Return	CK45	2
13	Key	CK45	2
14	Key	CK45	4
15	Wear Plate	CuZn25Al5 + Graphite - HB > 190	1
16	Wear Plate L	CuZn25Al5 + Graphite - HB > 190	1
17	Wear Plate R	CuZn25Al5 + Graphite - HB > 190	1
18	Spring Stopper Plate	CK45	2
19	Stopper Plate	CK45	2
20	Key	CK45	1
21	Elastomer Cap	Elastomer 92SH	4
22G	Gas Spring - Return Type G	-	2
22S	Spring - Return Type S	-	2
23	Cam Driver Fixing Screws M16x60 DIN 912	-	4
24	Cam Base Fixing Screws M20x75 DIN 912	-	5
25	Gas Spring Stopper Plate	CK45	2
26	Gas Spring Reaction	CK45	2



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				E _f	
	β	S	F _s	Spring	Gas Spring
CLB500.00	0°	38,57	743	8,19	34,25
CLB500.05	5°	42,59	743	8,19	34,25
CLB500.10	10°	46,67	743	8,19	34,25
CLB500.15	15°	50,88	743	8,19	34,25
CLB500.20	20°	55,30	743	8,19	34,25
CLB500.25	25°	60	743	8,19	34,25
CLB500.30	30°	65,10	743	8,19	34,25
CLB500.35	35°	70,75	743	8,19	34,25
CLB500.40	40°	77,13	743	8,19	34,25
CLB500.45	45°	84,53	743	8,19	34,25
CLB500.50	50°	93,34	743	8,19	34,25
CLB500.55	55°	104,61	743	6,37	26,64
CLB500.60	60°	120	743	6,37	26,64

Return Type: G = Gas Spring / S = Spring



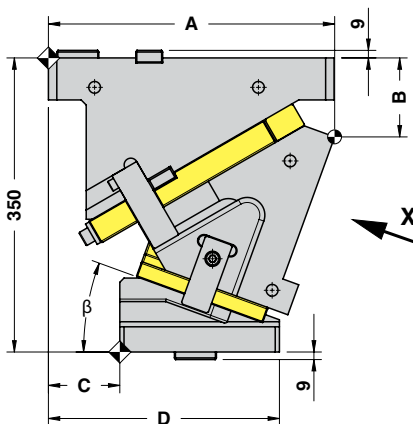
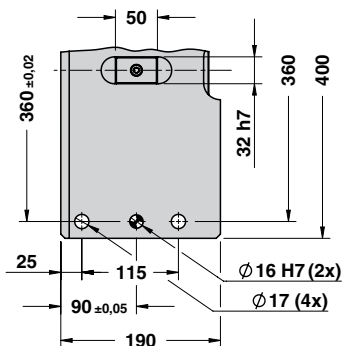
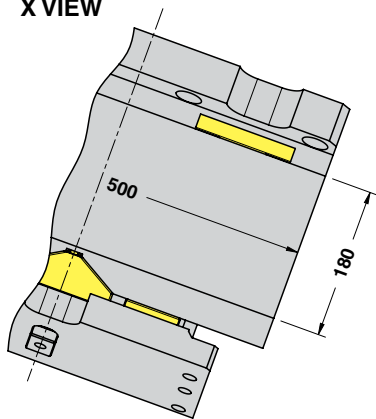
Art.	Work Angle = 5°	Return type
CLB500	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		B	A	C	D
CLB500.00	0°	313	58	138	328
CLB500.05	5°	320,64	64,34	125	315
CLB500.10	10°	331,08	72,47	115	305
CLB500.15	15°	336,17	82,37	100	290
CLB500.20	20°	340,76	94	85	275
CLB500.25	25°	344,69	102,32	70	260
CLB500.30	30°	347,83	112,25	55	245
CLB500.35	35°	355,03	123,73	45	235
CLB500.40	40°	351,17	136,66	25	215
CLB500.45	45°	356,12	150,95	15	205
CLB500.50	50°	348,77	161,49	-6	184
CLB500.55	55°	352,01	178,16	-15	175
CLB500.60	60°	332,75	195,83	-45	145

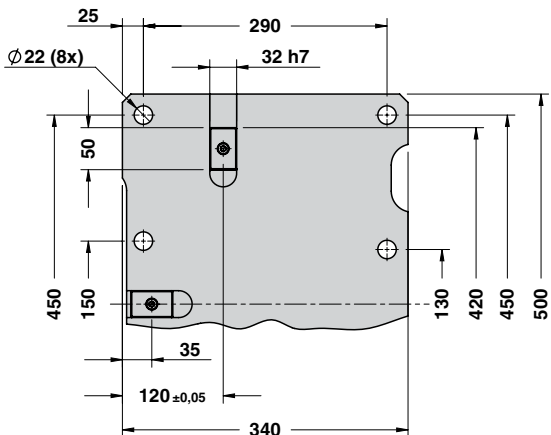
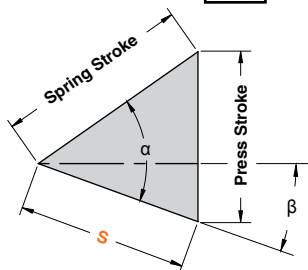


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

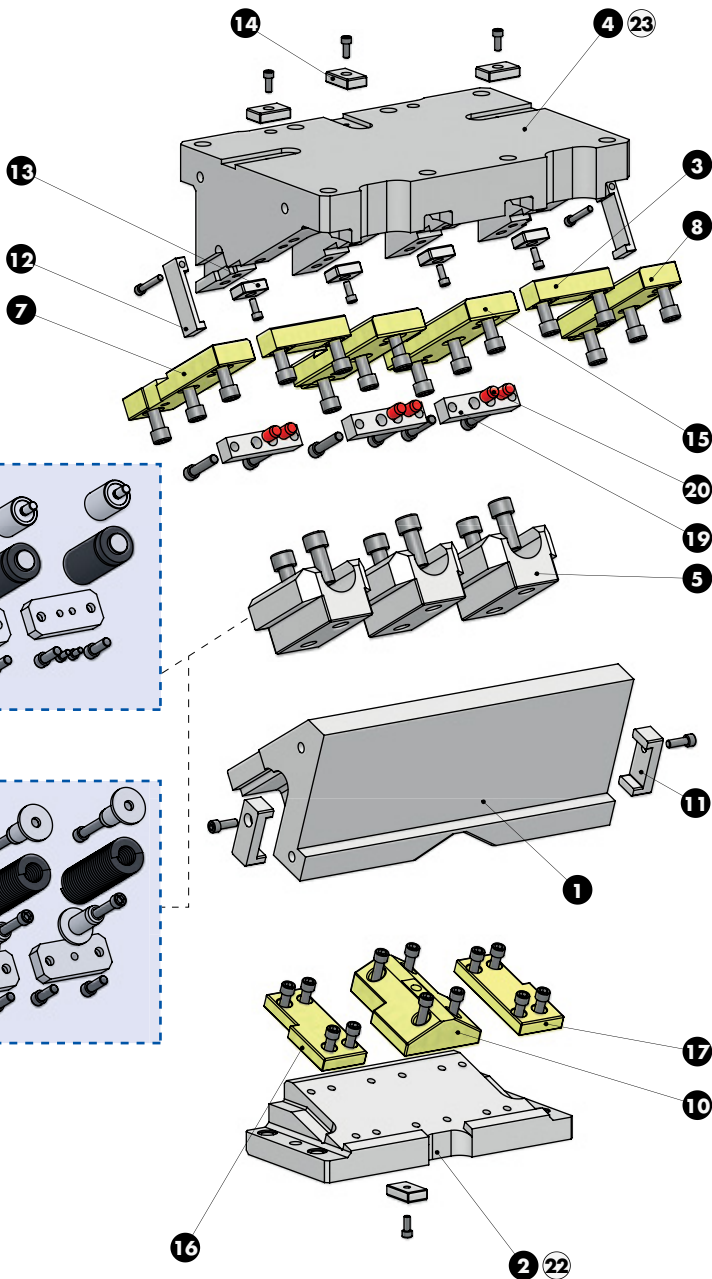


CAM DIAGRAM





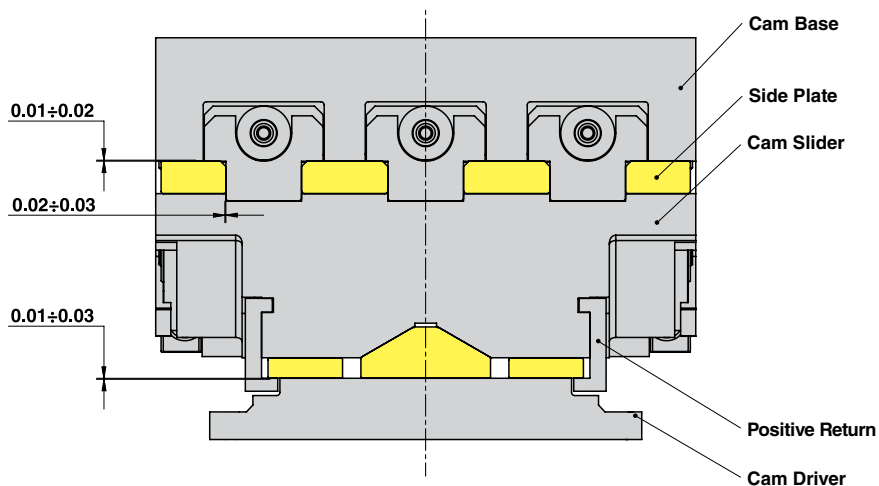
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

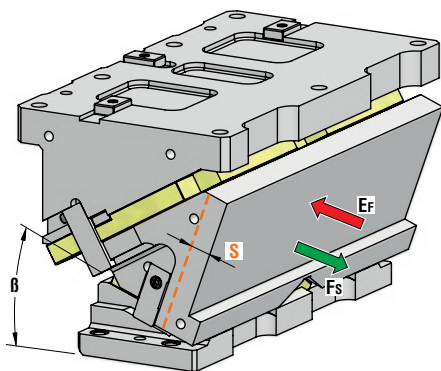
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	2
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	3
6	Spring Guide Pin	CK45	6
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
9	Washer	CK45	6
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Positive Return	42CrMo4 Nitrided	2
12	Positive Return	CK45	2
13	Key	CK45	4
14	Key	CK45	4
15	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
16	Wear Plate L	CuZn25Al5 + Graphite - HB > 190	1
17	Wear Plate R	CuZn25Al5 + Graphite - HB > 190	1
18	Spring Stopper Plate	CK45	3
19	Stopper Plate	CK45	3
20	Elastomer Cap	Elastomer 92SH	6
21G	Gas Spring - Return Type G	-	3
21S	Spring - Return Type S	-	3
22	Cam Driver Fixing Screws M16x60 DIN 912	-	4
23	Cam Base Fixing Screws M20x75 DIN 912	-	8
24	Gas Spring Stopper Plate	CK45	3
25	Gas Spring Reaction	CK45	3



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
CLB600.00	0°	38,57	865	10,92	45,67
CLB600.05	5°	42,59	865	10,92	45,67
CLB600.10	10°	46,67	865	10,92	45,67
CLB600.15	15°	50,88	865	10,92	45,67
CLB600.20	20°	55,30	865	10,92	45,67
CLB600.25	25°	60	865	10,92	45,67
CLB600.30	30°	65,10	865	10,92	45,67
CLB600.35	35°	70,75	865	10,92	45,67
CLB600.40	40°	77,13	865	10,92	45,67
CLB600.45	45°	84,53	865	10,92	45,67
CLB600.50	50°	93,34	865	10,92	45,67
CLB600.55	55°	104,61	865	8,50	35,52
CLB600.60	60°	120	865	8,50	35,52

Return Type: G = Gas Spring / S = Spring



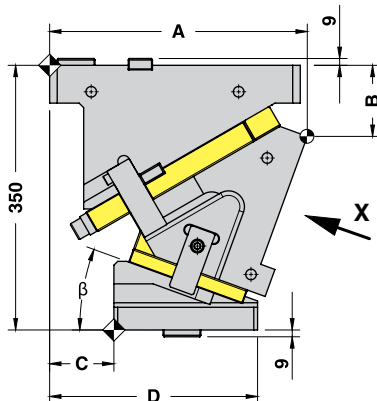
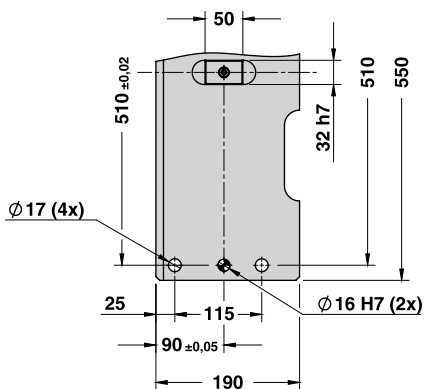
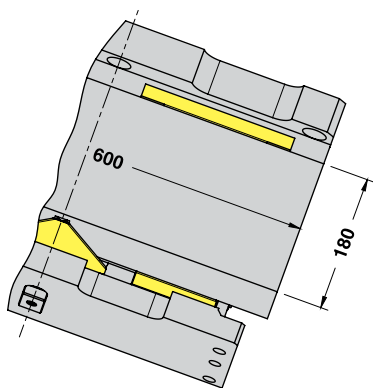
Art.	Work Angle = 5°	Return type
CLB600	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		B	A	B	C
CLB600.00	0°	313	58	138	328
CLB600.05	5°	320,64	64,34	125	315
CLB600.10	10°	331,08	72,47	115	305
CLB600.15	15°	336,17	82,37	100	290
CLB600.20	20°	340,76	94	85	275
CLB600.25	25°	344,69	102,32	70	260
CLB600.30	30°	347,83	112,25	55	245
CLB600.35	35°	355,03	123,73	45	235
CLB600.40	40°	351,17	136,66	25	215
CLB600.45	45°	356,12	150,95	15	205
CLB600.50	50°	348,77	161,49	-6	184
CLB600.55	55°	352,01	178,16	-15	175
CLB600.60	60°	332,75	195,83	-45	145

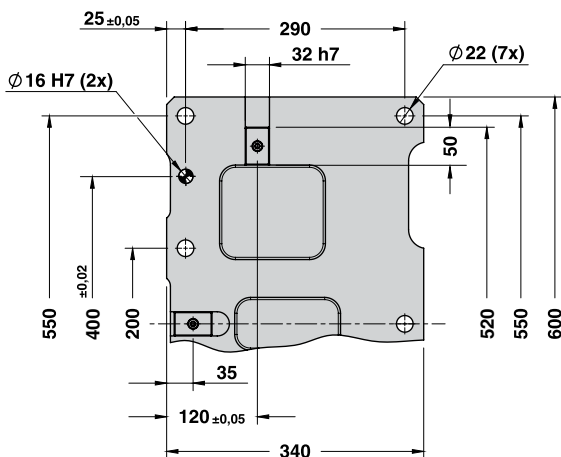
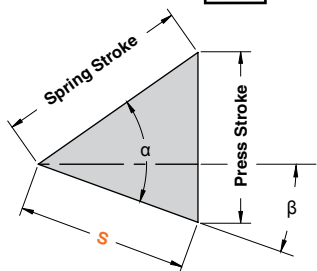


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

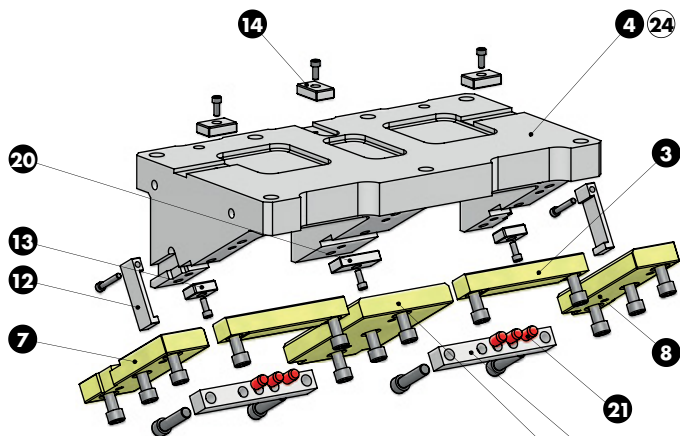


CAM DIAGRAM

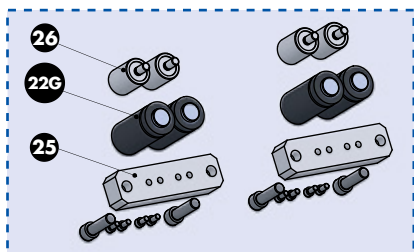




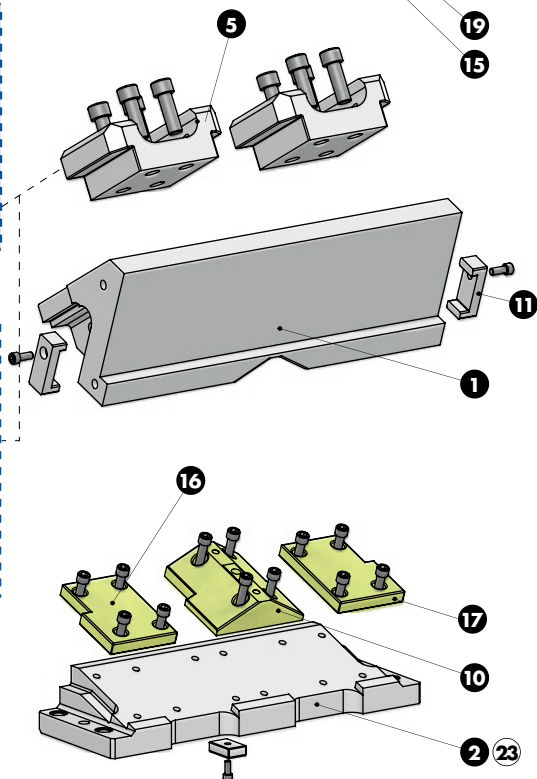
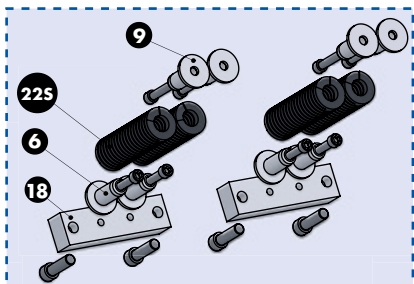
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



RETURN TYPE G



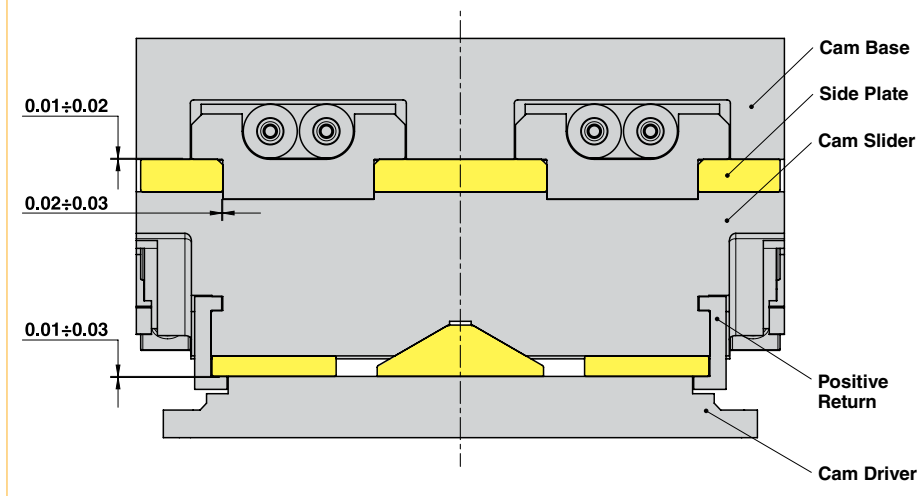
RETURN TYPE S



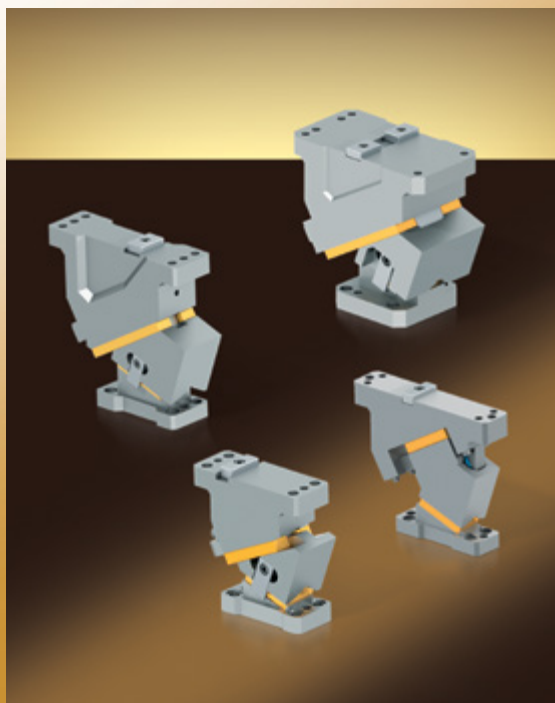


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	2
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	2
6	Spring Guide Pin	CK45	8
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
9	Washer	CK45	8
10	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
11	Positive Return	42CrMo4 Nitrided	2
12	Positive Return	CK45	2
13	Key	CK45	2
14	Key	CK45	4
15	Wear Plate	CuZn25Al5 + Graphite - HB > 190	1
16	Wear Plate L	CuZn25Al5 + Graphite - HB > 190	1
17	Wear Plate R	CuZn25Al5 + Graphite - HB > 190	1
18	Spring Stopper Plate	CK45	2
19	Stopper Plate	CK45	2
20	Key	CK45	1
21	Elastomer Cap	Elastomer 92SH	6
22G	Gas Spring - Return Type G	-	4
22S	Spring - Return Type S	-	4
23	Cam Driver Fixing Screws M16x60 DIN 912	-	4
24	Cam Base Fixing Screws M20x75 DIN 912	-	7
25	Gas Spring Stopper Plate	CK45	2
26	Gas Spring Reaction	CK45	4



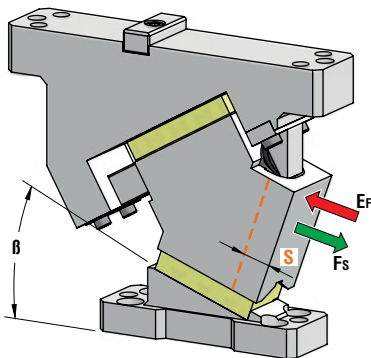
**CAM UNITS CLC
SCHIEBER CLC
CAMME CLC**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	B				F _s	F _f
CLC050	0÷70°	50	200	50x75	41	0,35÷0,71
CLC065	0÷70°	65	180 (0÷45°) 190 (50÷55°) 210 (60÷70°)	65x65	42	0,44÷0,94
CLC080	0÷70°	80	270	80x86	83	0,58÷1,20
CLC150	0÷70°	150	270	150x85	140	1,66÷4,18



Highly skilled workers

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Spring
CLC050.00	0°	30,21	41	0,66
CLC050.05	5°	30,52	41	0,61
CLC050.10	10°	30,34	41	0,56
CLC050.15	15°	30,53	41	0,71
CLC050.20	20°	30,41	41	0,66
CLC050.25	25°	30	41	0,66
CLC050.30	30°	32,55	41	0,66
CLC050.35	35°	35,38	41	0,66
CLC050.40	40°	38,57	41	0,66
CLC050.45	45°	42,26	41	0,66
CLC050.50	50°	46,67	41	0,66
CLC050.55	55°	52,10	41	0,59
CLC050.60	60°	59,09	41	0,52
CLC050.65	65°	58,26	41	0,38
CLC050.70	70°	57,59	41	0,35

OPTION CODE

SL	1 ÷ 60 (1mm steps)
SW	65 mm
N	∅12H7

OPTION CODE

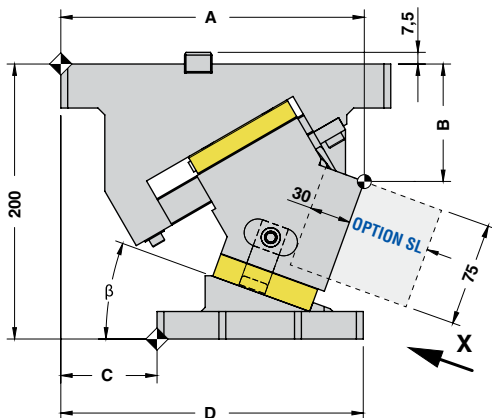
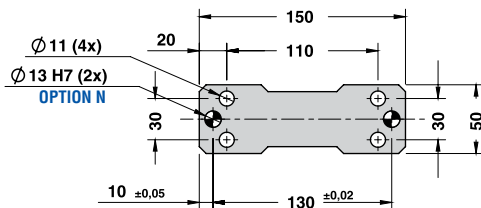
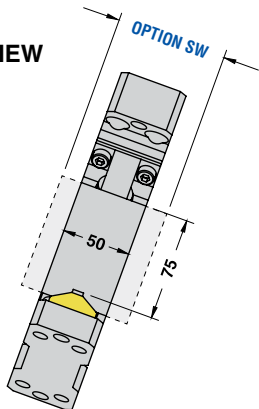


Art.	Work Angle = 5°	SL	SW	N
CLC050	05	SL55	SW65	N12

OMCR CODE	Work Angle	Overall Dimensions (mm)			
	β	A	B	C	D
CLC050.00	0°	225	77,50	107	257
CLC050.05	5°	226,91	78,33	100	250
CLC050.10	10°	223,72	79,93	90	240
CLC050.15	15°	224,36	82,29	85	235
CLC050.20	20°	220,76	85,39	70	220
CLC050.25	25°	215,85	89,22	58	208
CLC050.30	30°	213,58	94,73	55	205
CLC050.35	35°	204,89	96,90	35	185
CLC050.40	40°	206,72	102,69	30	180
CLC050.45	45°	202,01	103,06	20	170
CLC050.50	50°	195,73	105,94	10	160
CLC050.55	55°	189,83	116,30	0	150
CLC050.60	60°	179,27	125,08	-15	135
CLC050.65	65°	176,60	126,87	-32	118
CLC050.70	70°	177	135,83	-38	112

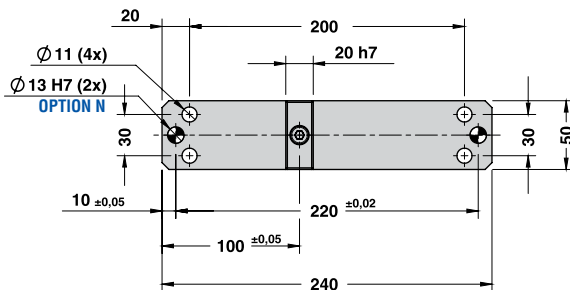
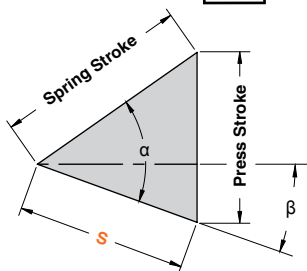
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

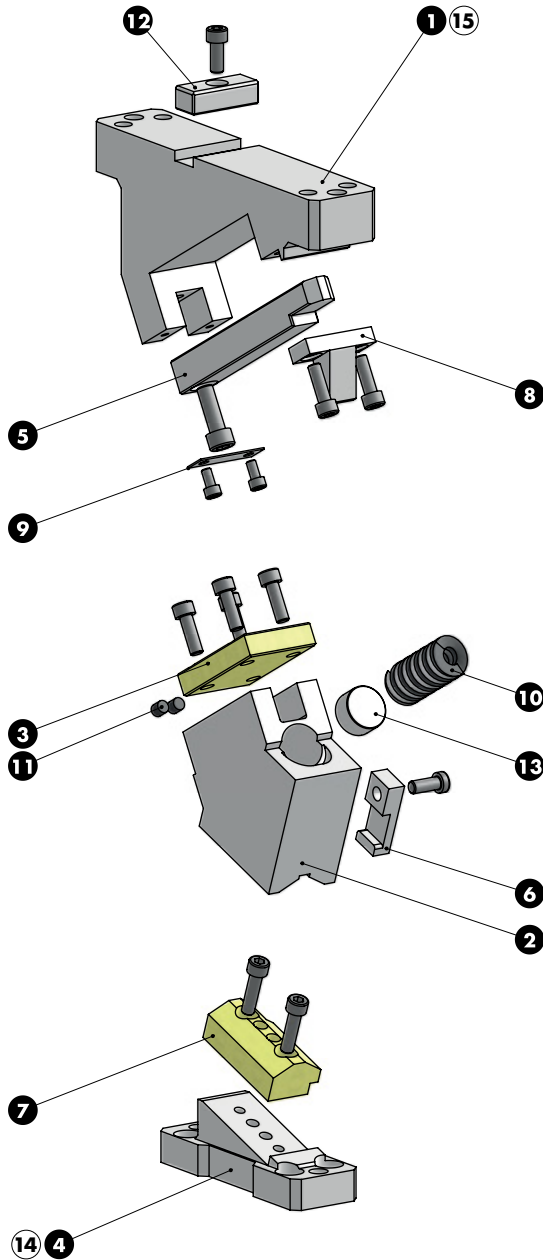


Cam Units CLC

CAM DIAGRAM

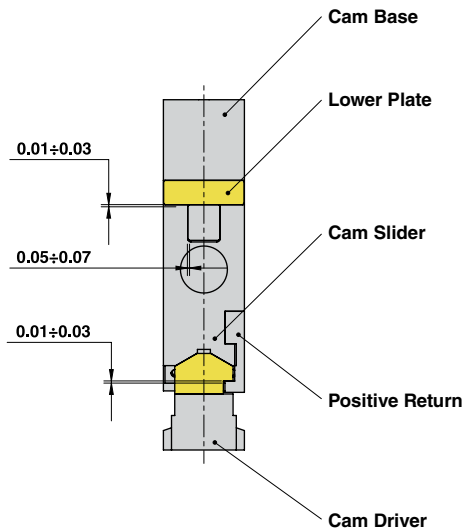


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



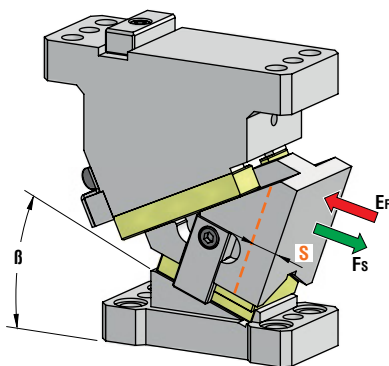
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	GGG-50	1
2	Cam Slider	GGG-50	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Driver	GG-25	1
5	Guide Bar	42CrMo4 + Graphite	1
6	Positive Return	CK45	1
7	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
8	Spring Block	St44	1
9	Safety Plate	St44	1
10	Spring	-	1
11	Elastomer Cap	Elastomer 92SH	2
12	Key	CK45	1
13	Spring Spacer	CK45	1
14	Cam Driver Fixing Screws M10x35 DIN 912	-	4
15	Cam Base Fixing Screws M10x40 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f
CLC065.00	0°	14,99	42	0,94
CLC065.05	5°	15,07	42	0,89
CLC065.10	10°	15,22	42	0,91
CLC065.15	15°	15,51	42	0,87
CLC065.20	20°	16,49	42	0,87
CLC065.25	25°	17,10	42	0,79
CLC065.30	30°	18,51	42	0,85
CLC065.35	35°	19,57	42	0,77
CLC065.40	40°	21,46	42	0,85
CLC065.45	45°	23,25	42	0,77
CLC065.50	50°	26,50	42	0,79
CLC065.55	55°	29,70	42	0,70
CLC065.60	60°	34,97	42	0,64
CLC065.65	65°	41,37	42	0,54
CLC065.70	70°	51,12	42	0,44

OPTION CODE

SL	1 ÷ 60 (1mm steps)
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OPTION CODE

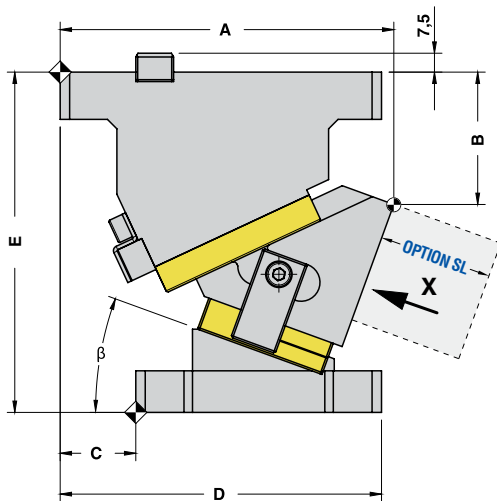
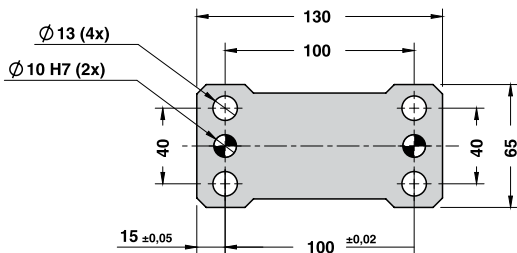
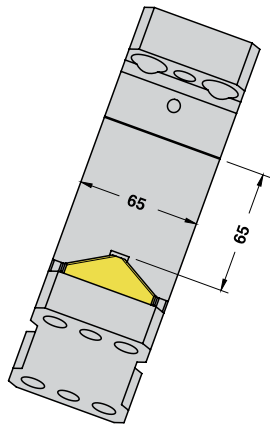


Art.	Work Angle = 5°	OPTION CODE
CLC065	05	SL55

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		B	A	B	C	D
CLC065.00	0°	170	53	60	190	180
CLC065.05	5°	171,41	60,27	55	185	180
CLC065.10	10°	177,16	63,06	55	185	180
CLC065.15	15°	177,20	66,33	50	180	180
CLC065.20	20°	176,51	70,01	40	170	180
CLC065.25	25°	172,94	75,64	35	165	180
CLC065.30	30°	177,78	78,32	30	160	180
CLC065.35	35°	173,29	83,25	20	150	180
CLC065.40	40°	170,78	82,44	10	140	180
CLC065.45	45°	165,50	86,51	2,5	132,5	180
CLC065.50	50°	165,41	96,79	-5	125	190
CLC065.55	55°	159,51	99,89	-10	120	190
CLC065.60	60°	156,68	120,78	-20	110	210
CLC065.65	65°	150,33	122,80	-25	105	210
CLC065.70	70°	146,45	131,68	-32	98	210

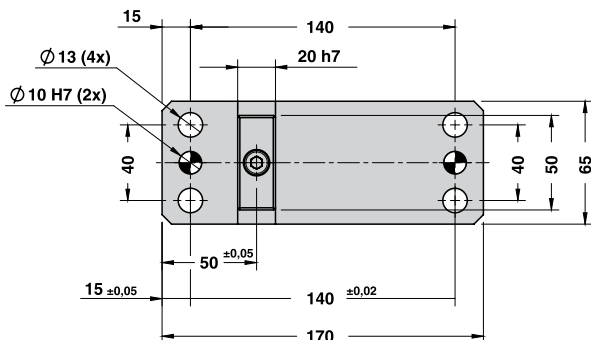
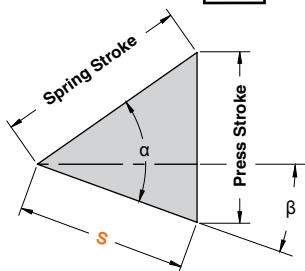
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

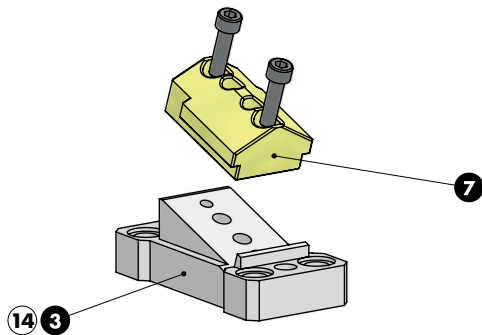
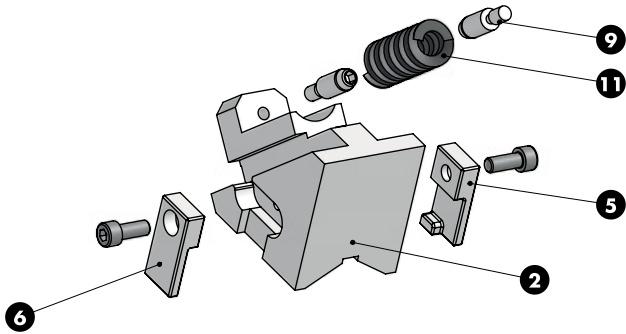
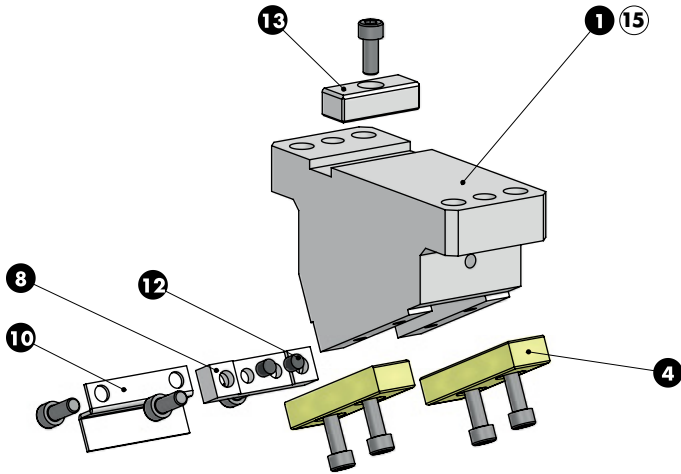


Cam Units CLC

CAM DIAGRAM

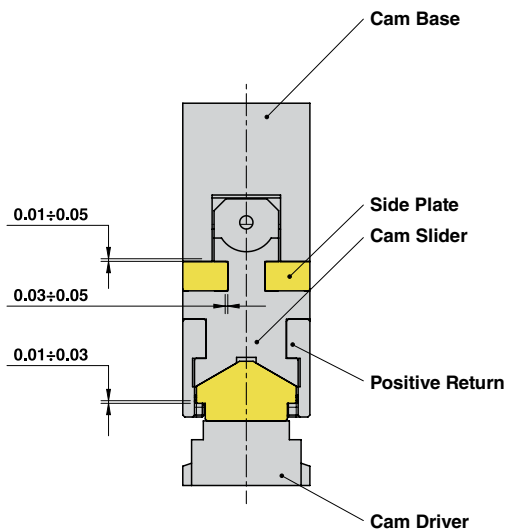


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



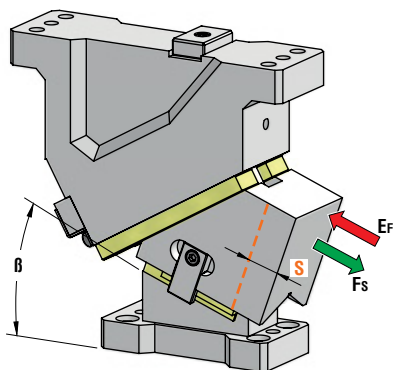
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	GGG-45	1
2	Cam Slider	GG-25	1
3	Cam Driver	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return R	CK45	1
6	Positive Return L	CK45	1
7	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
8	Stopper Plate	St44	1
9	Spring Guide Pin	34CrMo4	2
10	Safety Plate	St44	1
11	Spring	-	1
12	Elastomer Cap	Elastomer 92SH	2
13	Key	CK45	1
14	Cam Driver Fixing Screws M12x35 DIN 912	-	4
15	Cam Base Fixing Screws M12x35 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Spring
CLC080.00	0°	32,14	83	1,09
CLC080.05	5°	38,45	83	1,20
CLC080.10	10°	38,89	83	1,09
CLC080.15	15°	39,65	83	0,97
CLC080.20	20°	46,08	83	1,09
CLC080.25	25°	47,78	83	0,97
CLC080.30	30°	54,25	83	1,09
CLC080.35	35°	57,36	83	0,97
CLC080.40	40°	64,28	83	1,09
CLC080.45	45°	69,64	83	0,97
CLC080.50	50°	77,79	83	1,09
CLC080.55	55°	87,17	83	0,97
CLC080.60	60°	98,48	83	0,85
CLC080.65	65°	81,56	83	0,65
CLC080.70	70°	86,38	83	0,58

OPTION CODE

SL	1 ÷ 60 (1mm steps)
SW	100 or 120 mm
N	Ø 16 H7

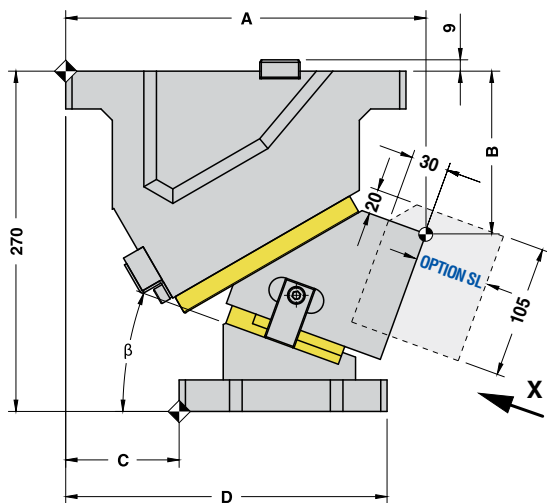
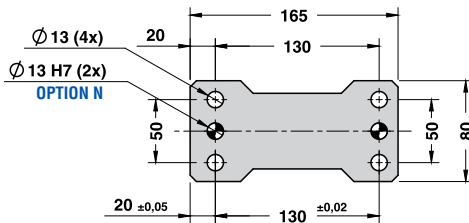
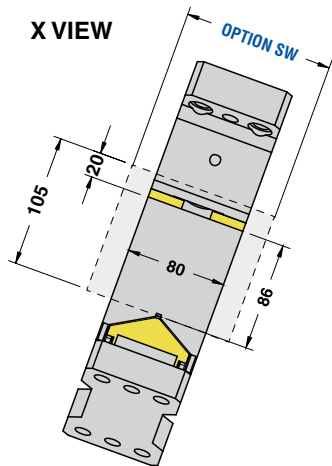
OPTION CODE



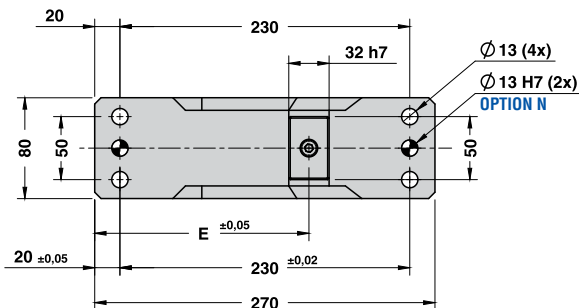
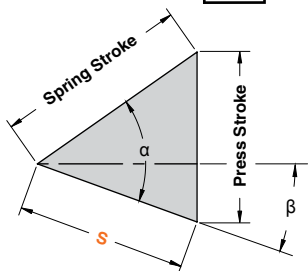
Art.	Work Angle = 5°	SL	SW	N
CLC080	05	SL55	SW120	N16

OMCR CODE	Work Angle	Overall Dimensions (mm)				
	β	A	B	C	D	E
CLC080.00	0°	260	99	100	265	130
CLC080.05	5°	272,93	109,39	100	265	150
CLC080.10	10°	279,92	120,43	100	265	150
CLC080.15	15°	285,93	132,04	100	265	150
CLC080.20	20°	285,90	129,12	90	255	170
CLC080.25	25°	289,80	141,60	90	255	170
CLC080.30	30°	282,59	134,36	75	240	170
CLC080.35	35°	284,27	147,32	75	240	170
CLC080.40	40°	274,80	140,38	60	225	170
CLC080.45	45°	274,20	153,44	60	225	170
CLC080.50	50°	262,46	151,39	35	200	170
CLC080.55	55°	259,60	164,14	35	200	170
CLC080.60	60°	240,64	176,59	0	165	170
CLC080.65	65°	235,61	188,65	-5	160	170
CLC080.70	70°	227,83	195,53	-10	155	170

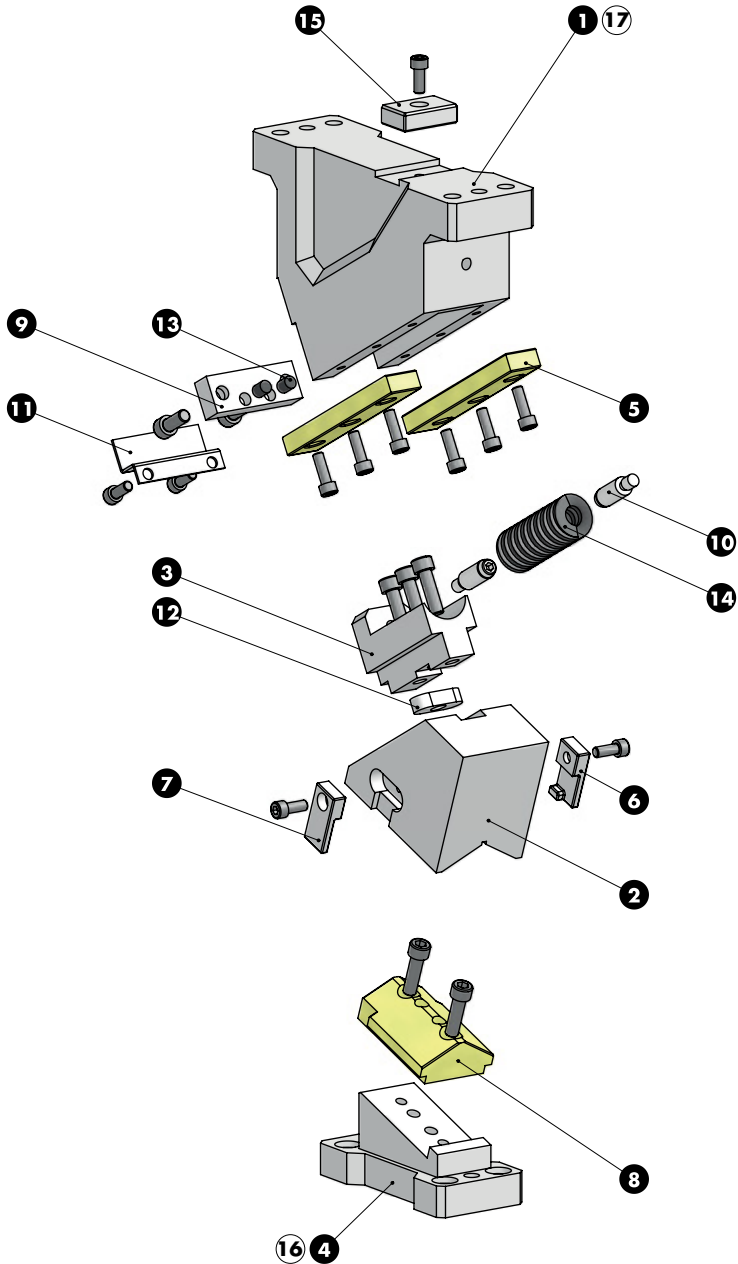
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



CAM DIAGRAM

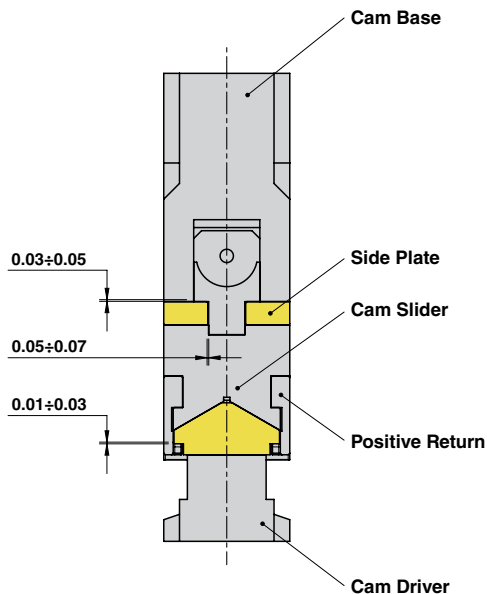


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



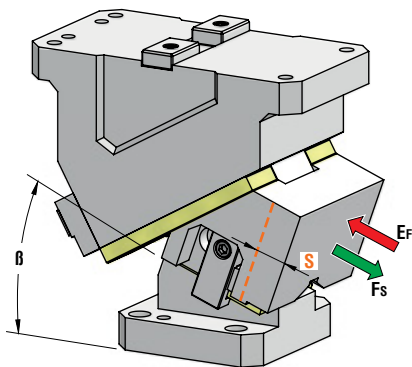
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	GGG-45	1
2	Cam Slider	GG-25	1
3	Spring Guide Block	GGG-45 + Graphite	1
4	Cam Driver	GG-25	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Positive Return R	CK45	1
7	Positive Return L	CK45	1
8	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
9	Stopper Plate	St44	1
10	Spring Guide Pin	34CrMo4	2
11	Safety Plate	St44	1
12	Key	CK45	1
13	Elastomer Cap	Elastomer 92SH	2
14	Spring	-	1
15	Key	CK45	1
16	Cam Driver Fixing Screws M12x40 DIN 912	-	4
17	Cam Base Fixing Screws M12x45 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle β	Max Stroke (mm) S	Max Work Force with shoulder (kN) F_s	Extraction Force (kN)
				E_f Spring
CLC150.00	0°	32,14	140	4,18
CLC150.05	5°	32,26	140	3,73
CLC150.10	10°	38,89	140	4,18
CLC150.15	15°	39,65	140	3,73
CLC150.20	20°	46,08	140	4,18
CLC150.25	25°	47,78	140	3,73
CLC150.30	30°	54,25	140	4,18
CLC150.35	35°	57,36	140	3,73
CLC150.40	40°	64,28	140	4,18
CLC150.45	45°	69,64	140	3,73
CLC150.50	50°	77,79	140	4,18
CLC150.55	55°	87,17	140	3,73
CLC150.60	60°	98,48	140	3,25
CLC150.65	65°	93,21	140	2,40
CLC150.70	70°	86,38	140	1,66

OPTION CODE

N	Ø16 H7
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OPTION CODE

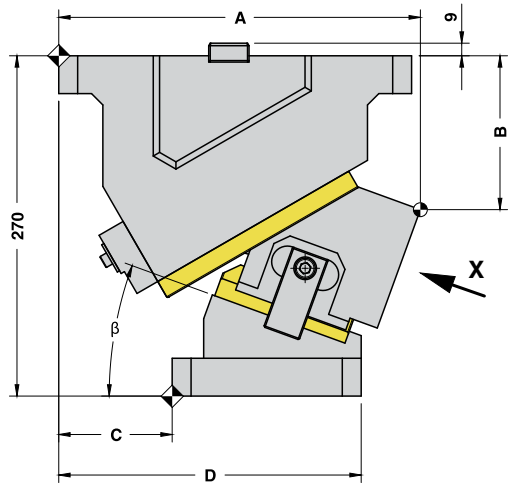
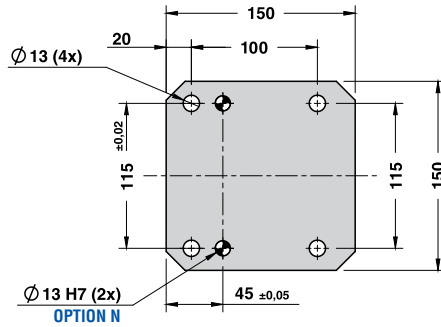
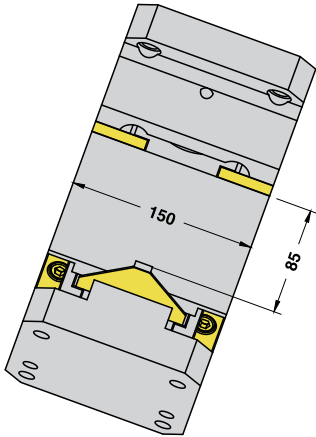


Art.	Work Angle = 5°	N
CLC150	05	N16

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		B	A	B	C	D
CLC150.00	0°	280	85	120	270	100
CLC150.05	5°	288,26	95,84	115	265	100
CLC150.10	10°	285,54	102,36	105	255	100
CLC150.15	15°	291,79	114,47	105	255	100
CLC150.20	20°	286,97	122,07	90	240	135
CLC150.25	25°	291,02	135,08	90	240	135
CLC150.30	30°	283,92	138,40	70	220	135
CLC150.35	35°	285,66	151,91	70	220	135
CLC150.40	40°	276,20	155,53	45	195	170
CLC150.45	45°	275,56	169,14	45	195	170
CLC150.50	50°	263,74	167,65	25	175	170
CLC150.55	55°	260,74	180,94	25	175	170
CLC150.60	60°	246,60	193,92	0	150	170
CLC150.65	65°	241,35	206,49	0	150	170
CLC150.70	70°	240,01	218,56	-5	145	170

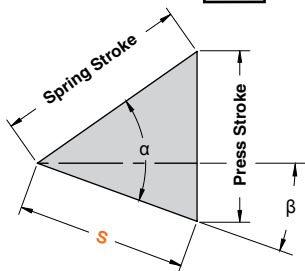
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

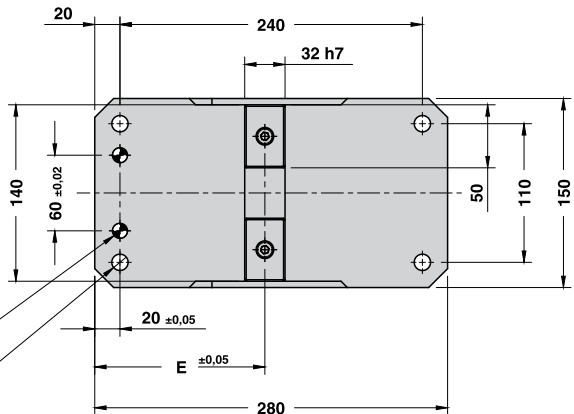


Cam Units CLC

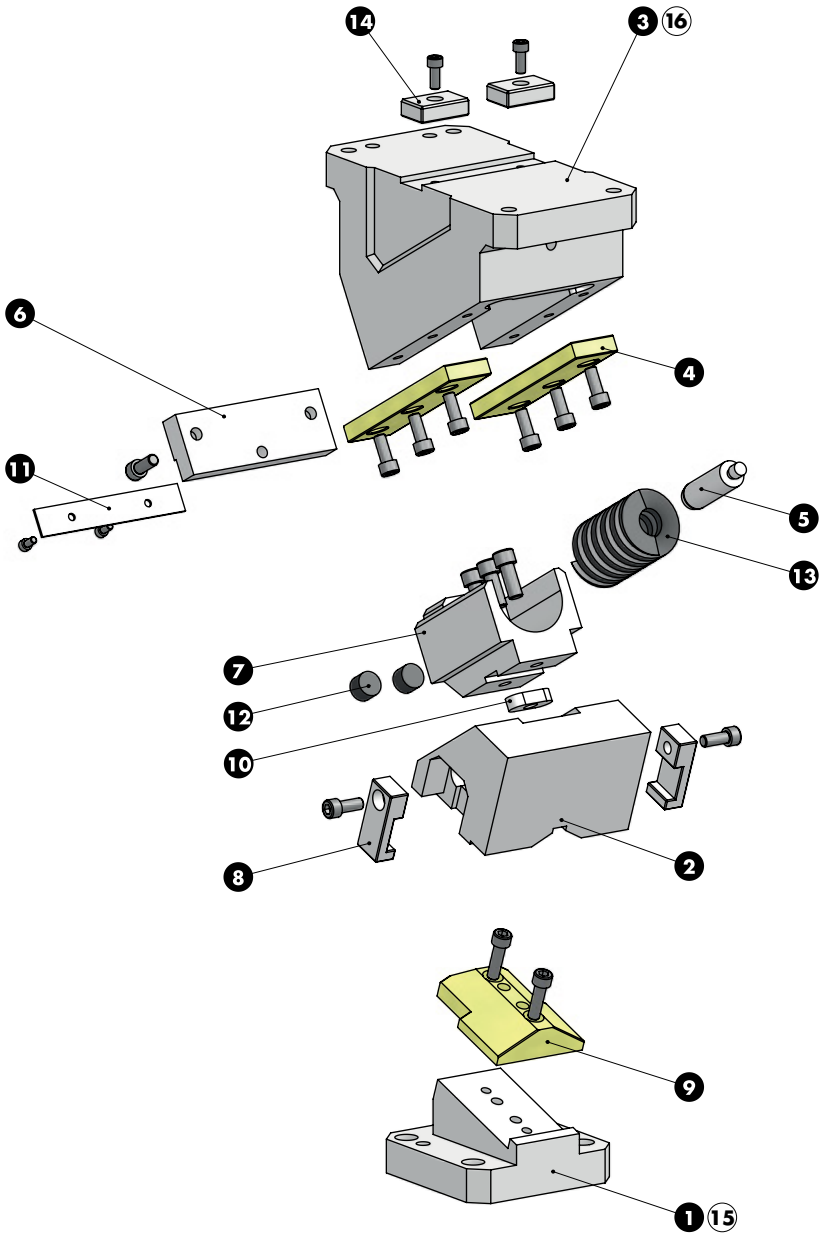
CAM DIAGRAM



$\varnothing 13$ H7 (2x)
OPTION N
 $\varnothing 13$ (4x)

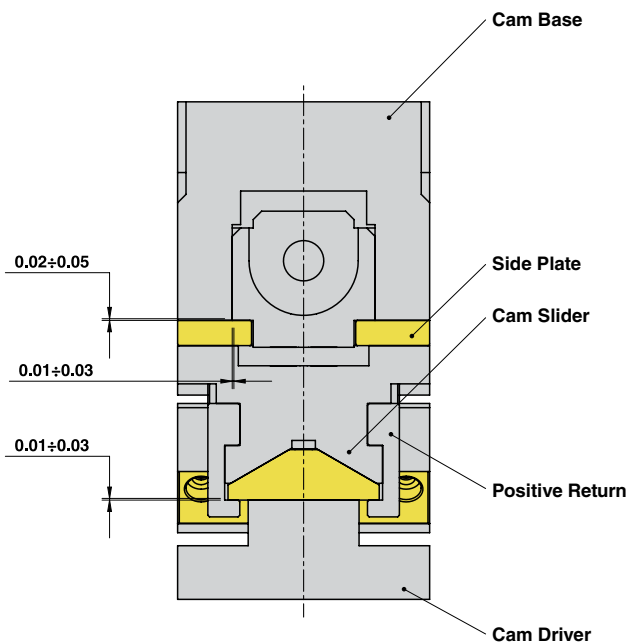


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Driver	GG-25	1
2	Cam Slider	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Spring Guide Pin	34CrMo4	1
6	Stopper Plate	St44	1
7	Spring Guide Block	GGG-45 + Graphite	1
8	Positive Return	CK45	2
9	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
10	Key	CK45	1
11	Safety Plate	St44	1
12	Elastomer Cap	Elastomer 92SH	2
13	Spring	-	1
14	Key	CK45	2
15	Cam Driver Fixing Screws M12x45 DIN 912	-	4
16	Cam Base Fixing Screws M12x45 DIN 912	-	4



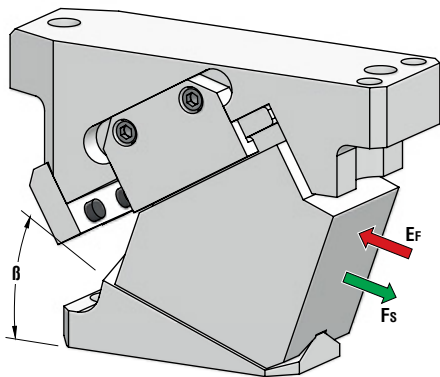
**CAM UNITS CLD
SCHIEBER CLD
CAMME CLD**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
CLD052	0÷80°	52	125 (0°÷70°) 150 (75°÷80°)	52 x 11"	31	0,18÷0,66



Employees competence

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	F _s	E _f
CLD052.00	0°	19,28	31	0,66
CLD052.05	5°	21,29	31	0,66
CLD052.10	10°	23,34	31	0,66
CLD052.15	15°	25,44	31	0,66
CLD052.20	20°	27,65	31	0,66
CLD052.25	25°	30	31	0,66
CLD052.30	30°	32,55	31	0,66
CLD052.35	35°	35,38	31	0,66
CLD052.40	40°	38,57	31	0,66
CLD052.45	45°	42,26	31	0,66
CLD052.50	50°	46,67	31	0,66
CLD052.55	55°	52,30	31	0,59
CLD052.60	60°	60	31	0,52
CLD052.65	65°	47,32	31	0,43
CLD052.70	70°	58,48	31	0,35
CLD052.75	75°	46,36	31	0,27
CLD052.80	80°	57,59	31	0,18

OPTION CODE

SL 0 ÷ 60 (1mm steps)

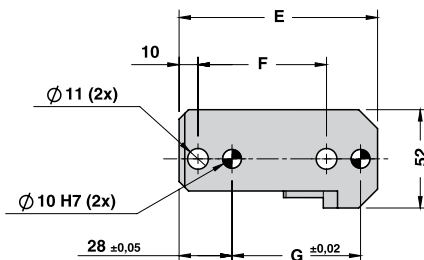
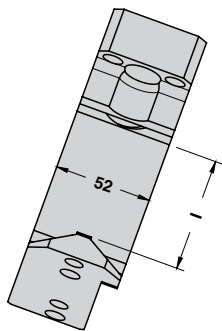


		OPTION CODE	
Art.	Work Angle = 5°	SL	
CLD052	05	SL55	

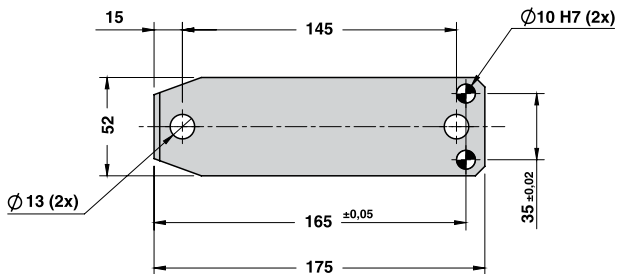
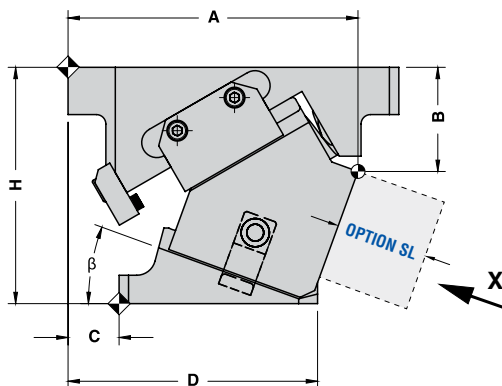
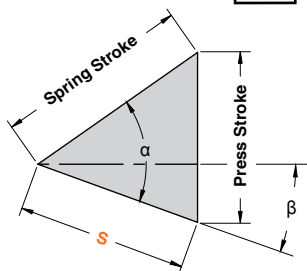
OMCR CODE	Work Angle	Overall Dimensions (mm)								
		B	A	B	C	D	E	F	G	H
CLD052.00	0°	150	43	45	150	105	68	68	125	60
CLD052.05	5°	153,10	45,21	42	147	105	68	68	125	60
CLD052.10	10°	153,55	47,83	37	142	105	68	68	125	60
CLD052.15	15°	153,32	50,82	32	137	105	68	68	125	60
CLD052.20	20°	153,38	55,10	27	132	105	68	68	125	60
CLD052.25	25°	154,71	58,62	20	125	105	68	68	125	60
CLD052.30	30°	153,28	63,31	17	122	105	68	68	125	60
CLD052.35	35°	152,09	67,10	10	115	105	68	68	125	60
CLD052.40	40°	149,14	71,93	4	109	105	68	68	125	60
CLD052.45	45°	145,41	75,73	-4	101	105	68	68	125	60
CLD052.50	50°	143,92	79,43	-9	96	105	68	68	125	60
CLD052.55	55°	144,67	82,97	-10	95	105	68	68	125	60
CLD052.60	60°	150,69	90,28	-9	96	105	68	68	125	60
CLD052.65	65°	130,16	99,54	-45	60	105	68	68	125	60
CLD052.70	70°	133,62	106,97	-40	65	105	68	68	125	60
CLD052.75	75°	148,74	124,59	-30	81	111	55	55	150	70
CLD052.80	80°	148,74	124,59	-30	80	110	55	55	150	70

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

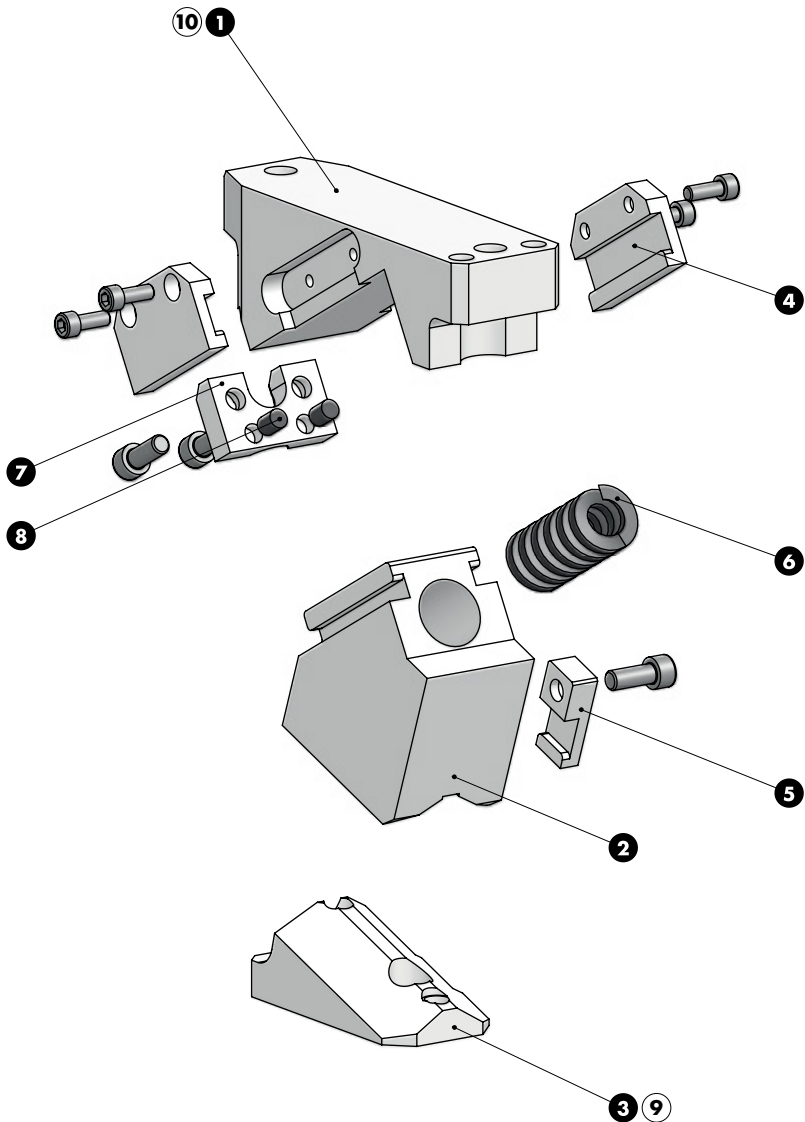
X VIEW



CAM DIAGRAM

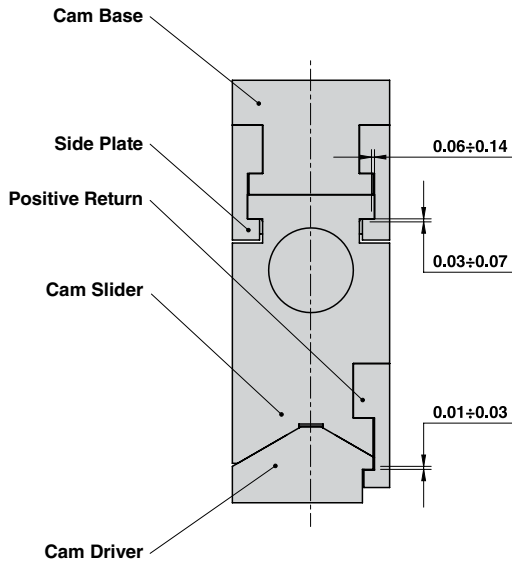


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

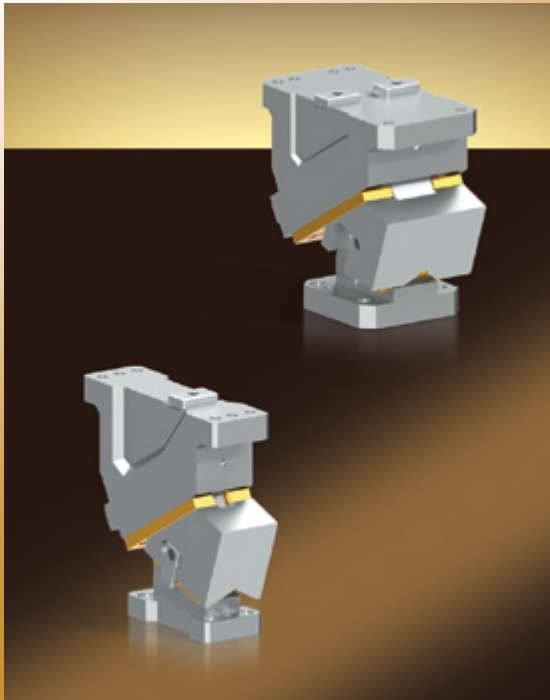


Particular number	Description	Material	Quantity
1	Cam Base	GG-25	1
2	Cam Slider	GG-25 + Graphite	1
3	Cam Driver	GG-25	1
4	Side Plate	CK45 + Graphite	2
5	Positive Return	CK45	1
6	Spring	-	1
7	Stopper Plate	St44	1
8	Elastomer Cap	Elastomer 92SH	2
9	Cam Driver Fixing Screws M10x30 DIN 912	-	2
10	Cam Base Fixing Screws M12x40 DIN 912	-	2



OMCR®

STANDARD DIE COMPONENTS



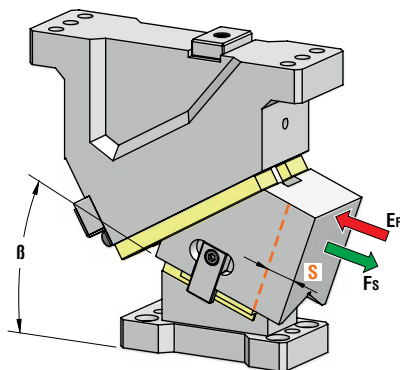
**CAM UNITS CLF
SCHIEBER CLF
CAMME CLF**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
CLF080	0÷70°	80	270	80x86	116	1,26÷2,72
CLF150	0÷70°	150	270	150x85	192	3,66÷7,25



Reliability in supplying

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Spring
CLF080.00	0°	32,14	116	2,47
CLF080.05	5°	38,45	116	2,72
CLF080.10	10°	38,89	116	2,47
CLF080.15	15°	39,65	116	2,21
CLF080.20	20°	46,08	116	2,47
CLF080.25	25°	47,78	116	2,21
CLF080.30	30°	54,25	116	2,47
CLF080.35	35°	57,36	116	2,21
CLF080.40	40°	64,28	116	2,47
CLF080.45	45°	69,64	116	2,21
CLF080.50	50°	77,79	116	2,47
CLF080.55	55°	87,17	116	2,21
CLF080.60	60°	98,48	116	1,92
CLF080.65	65°	81,56	116	1,59
CLF080.70	70°	86,38	116	1,26

OPTION CODE

SL	1 ÷ 60 (1mm steps)
SW	100 or 120 mm
N	Ø 16 H7

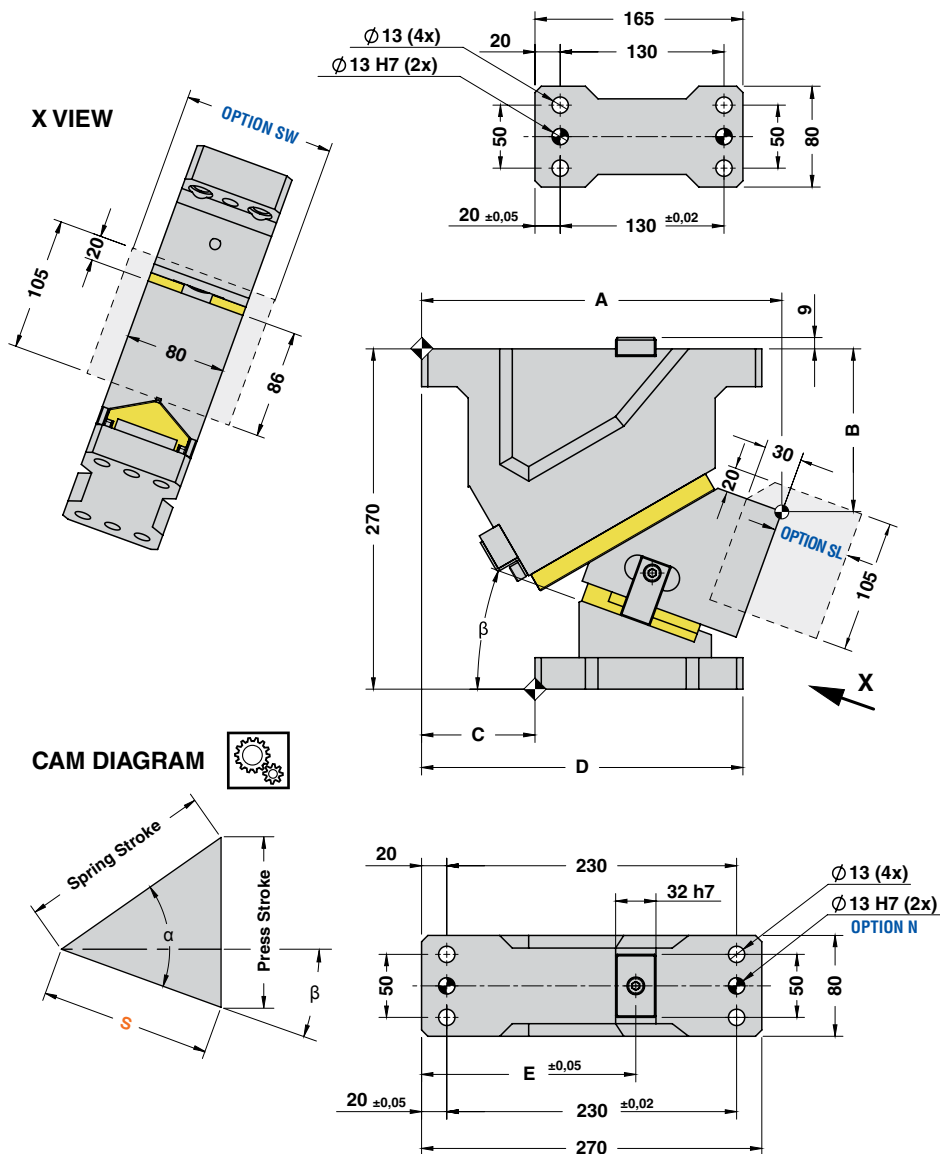
OPTION CODE



Art.	Work Angle = 5°	SL	SW	N
CLF080	05	SL55	SW120	N16

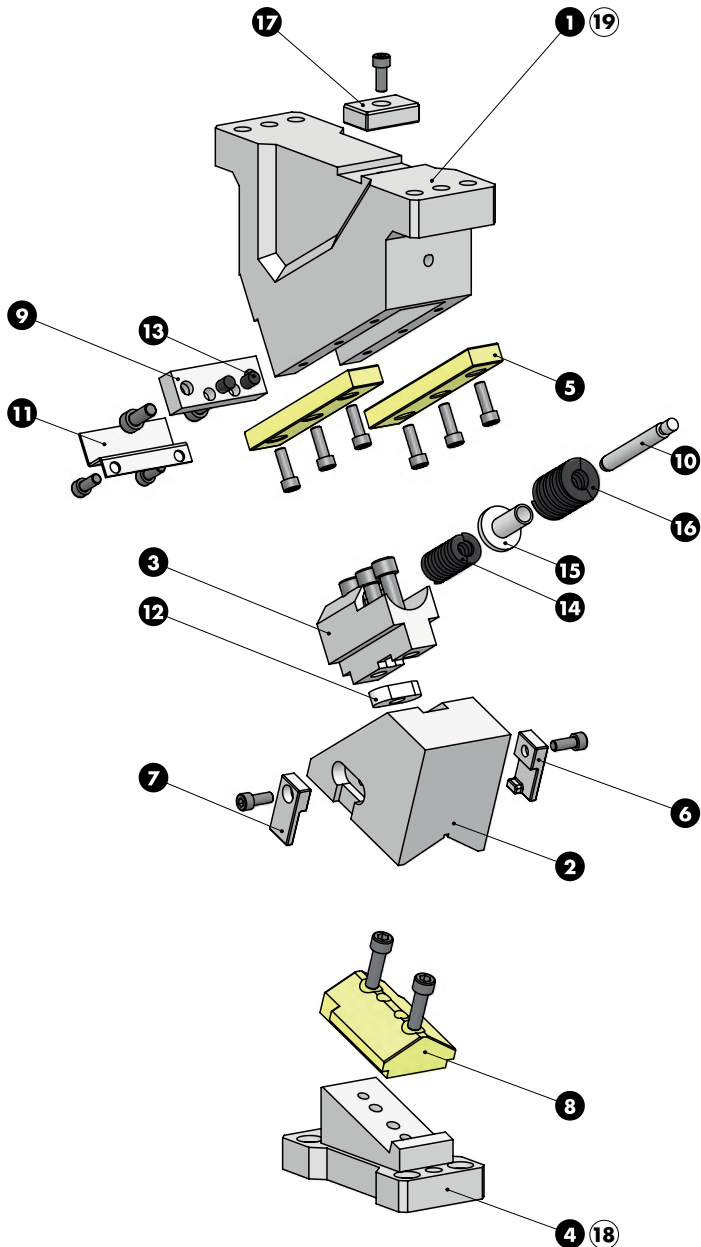
OMCR CODE	Work Angle	Overall Dimensions (mm)				
	β	A	B	C	D	E
CLF080.00	0°	260	99	100	265	130
CLF080.05	5°	272,93	109,39	100	265	150
CLF080.10	10°	279,92	120,43	100	265	150
CLF080.15	15°	285,93	132,04	100	265	150
CLF080.20	20°	285,90	129,12	90	255	170
CLF080.25	25°	289,80	141,60	90	255	170
CLF080.30	30°	282,59	134,36	75	240	170
CLF080.35	35°	284,27	147,32	75	240	170
CLF080.40	40°	274,80	140,38	60	225	170
CLF080.45	45°	274,20	153,44	60	225	170
CLF080.50	50°	262,46	151,39	35	200	170
CLF080.55	55°	259,60	164,14	35	200	170
CLF080.60	60°	240,64	176,59	0	165	170
CLF080.65	65°	235,61	188,65	-5	160	170
CLF080.70	70°	227,83	195,53	-10	155	170

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



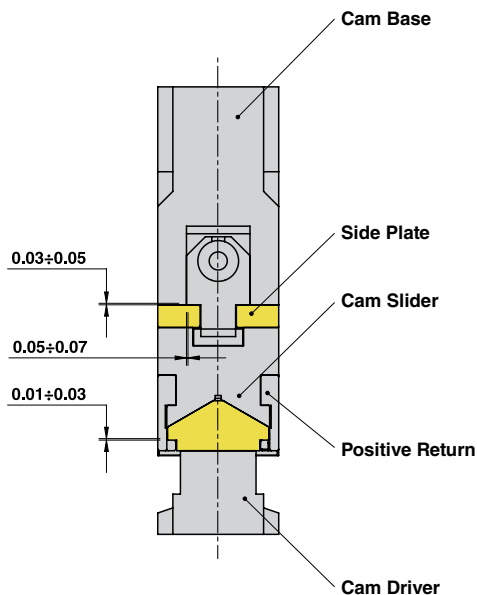
Cam Units CLF

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



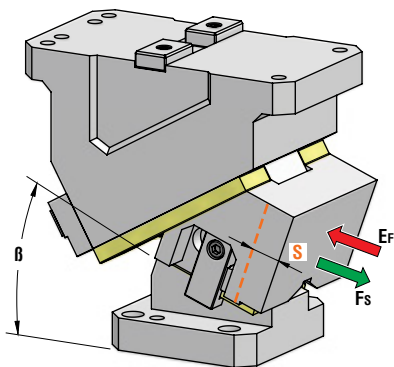
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	GGG-45	1
2	Cam Slider	GG-25	1
3	Spring Guide Block	GGG-45 + Graphite	1
4	Cam Driver	GG-25	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Positive Return R	CK45	1
7	Positive Return L	CK45	1
8	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
9	Stopper Plate	St44	1
10	Spring Guide Pin	34CrMo4	1
11	Safety Plate	St44	1
12	Key	CK45	1
13	Elastomer Cap	Elastomer 92SH	2
14	Spring	-	1
15	Spring Spacer	CK45	1
16	Spring	-	1
17	Key	CK45	1
18	Cam Driver Fixing Screws M12x40 DIN 912	-	4
19	Cam Base Fixing Screws M12x45 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef
				Spring
CLF150.00	0°	32,14	192	7,25
CLF150.05	5°	32,26	192	6,47
CLF150.10	10°	38,89	192	7,25
CLF150.15	15°	39,65	192	6,47
CLF150.20	20°	46,08	192	7,25
CLF150.25	25°	47,78	192	6,47
CLF150.30	30°	54,25	192	7,25
CLF150.35	35°	57,36	192	6,47
CLF150.40	40°	64,28	192	7,25
CLF150.45	45°	69,64	192	6,47
CLF150.50	50°	77,79	192	7,25
CLF150.55	55°	87,17	192	6,47
CLF150.60	60°	98,48	192	5,64
CLF150.65	65°	93,21	192	4,64
CLF150.70	70°	86,38	192	3,66

OPTION CODE

N	∅ 16 H7
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OPTION CODE

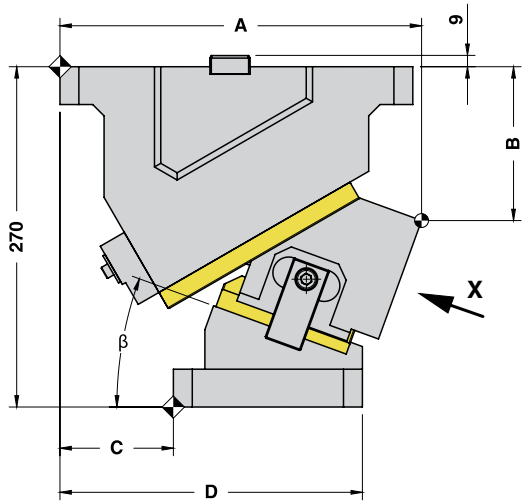
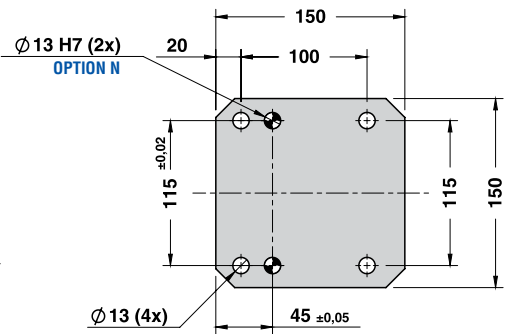
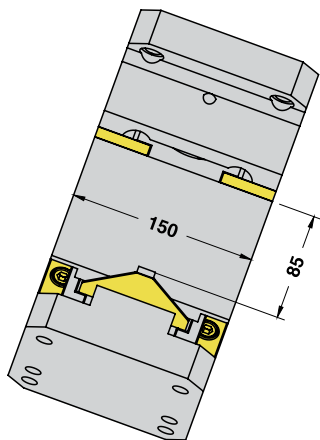


Art.	Work Angle = 5°	N
CLF150	05	N16

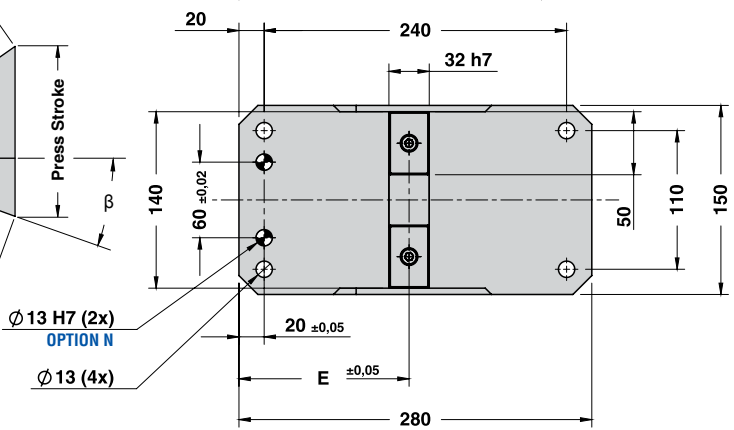
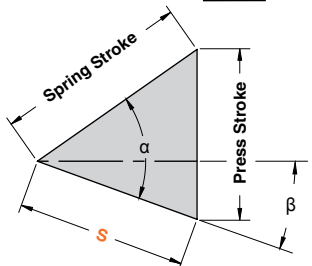
OMCR CODE	Work Angle	Overall Dimensions (mm)				
		B	A	B	C	D
CLF150.00	0°	280	85	120	270	100
CLF150.05	5°	288,26	95,84	115	265	100
CLF150.10	10°	285,54	102,36	105	255	100
CLF150.15	15°	291,79	114,47	105	255	100
CLF150.20	20°	286,97	122,07	90	240	135
CLF150.25	25°	291,02	135,08	90	240	135
CLF150.30	30°	283,92	138,40	70	220	135
CLF150.35	35°	285,66	151,91	70	220	135
CLF150.40	40°	276,20	155,53	45	195	170
CLF150.45	45°	275,56	169,14	45	195	170
CLF150.50	50°	263,74	167,65	25	175	170
CLF150.55	55°	260,74	180,94	25	175	170
CLF150.60	60°	246,60	193,92	0	150	170
CLF150.65	65°	241,35	206,49	0	150	170
CLF150.70	70°	240,01	218,56	-5	145	170

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

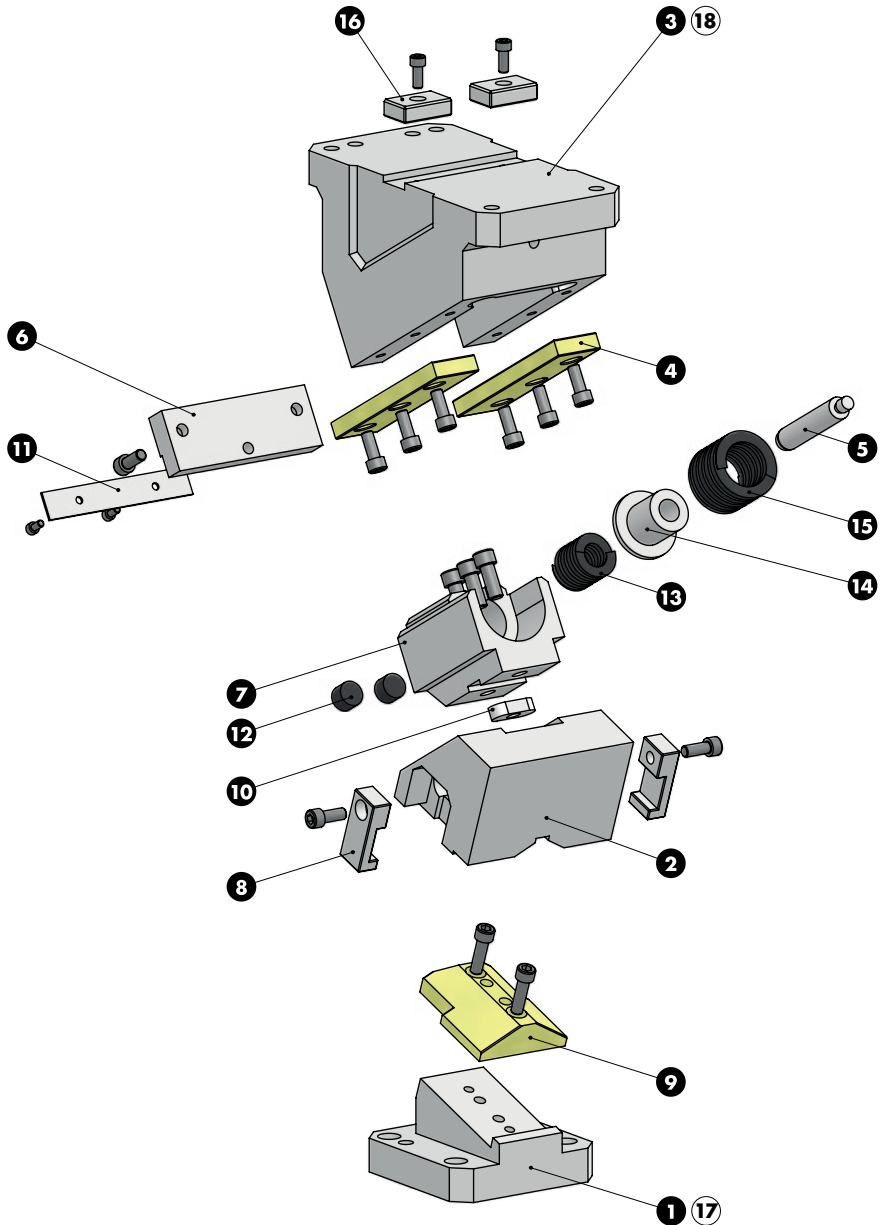


CAM DIAGRAM



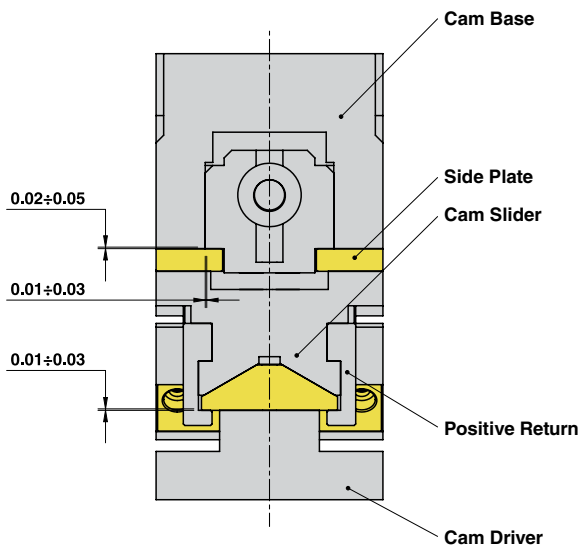
Cam Units CLF

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

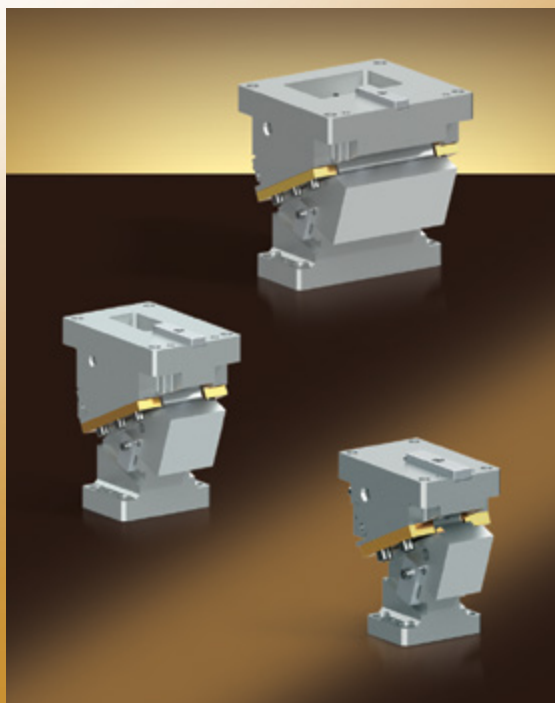


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Driver	GG-25	1
2	Cam Slider	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Spring Guide Pin	34CrMo4	1
6	Stopper Plate	St44	1
7	Spring Guide Block	GGG-45 + Graphite	1
8	Positive Return	CK45	2
9	Male "V" Driver	CuZn25Al5 + Graphite - HB > 190	1
10	Key	CK45	1
11	Safety Plate	St44	1
12	Elastomer Cap	Elastomer 92SH	2
13	Spring	-	1
14	Spring Spacer	CK45	1
15	Spring	-	1
16	Key	CK45	2
17	Cam Driver Fixing Screws M12x45 DIN 912	-	4
18	Cam Base Fixing Screws M12x45 DIN 912	-	4



**CAM UNITS CLK
SCHIEBER CLK
CAMME CLK**

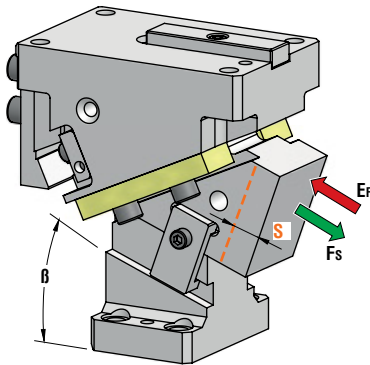
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
CLK065	0÷70°	65	210	65 x "F"	39÷58	0,32÷0,85
CLK100	0÷70°	100	280	100 x "F"	87÷96	1÷2,29
CLK200	0÷70°	200	280	200 x "F"	193÷231	1,98÷4,59



Dynamic technical staff and advanced design methods

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Spring
CLK065.00	0°	26,87	39	0,79
CLK065.05	5°	26,97	39	0,77
CLK065.10	10°	31,61	39	0,85
CLK065.15	15°	32,23	39	0,77
CLK065.20	20°	33,76	39	0,85
CLK065.25	25°	35	39	0,77
CLK065.30	30°	33,46	46	0,85
CLK065.35	35°	35,38	46	0,77
CLK065.40	40°	42,91	46	0,85
CLK065.45	45°	46,49	46	0,77
CLK065.50	50°	54,45	58	0,77
CLK065.55	55°	43,59	58	0,62
CLK065.60	60°	50	58	0,54
CLK065.65	65°	47,32	58	0,39
CLK065.70	70°	58,48	58	0,32

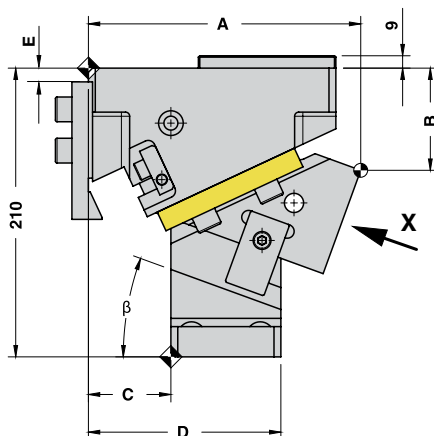
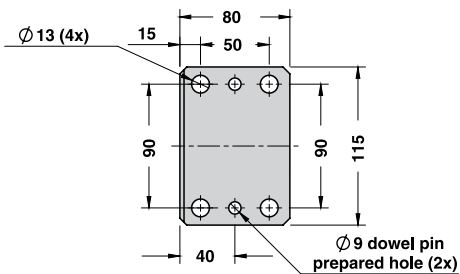
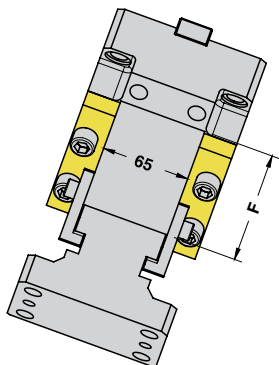


Art.	Work Angle = 5°
CLK065	05

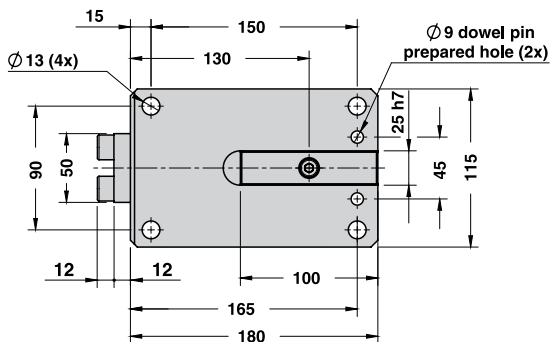
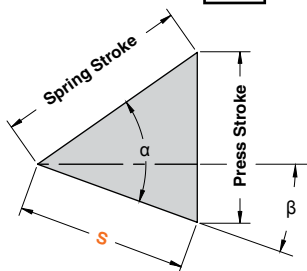
OMCR CODE	Work Angle	Overall Dimensions (mm)					
		B	A	B	C	D	E
CLK065.00	0°	185,94	56,57	75	155	55	80
CLK065.05	5°	193,01	56,57	70	150	55	90
CLK065.10	10°	196,80	67,58	70	150	40	80
CLK065.15	15°	203,77	68,81	67	147	40	90
CLK065.20	20°	198,10	74,31	60	140	10	80
CLK065.25	25°	204,75	76,73	55	135	10	90
CLK065.30	30°	193,63	89,52	50	130	10	80
CLK065.35	35°	199,76	93,06	45	125	10	90
CLK065.40	40°	188,72	99,62	40	120	15	80
CLK065.45	45°	194,13	104,16	34	114	15	90
CLK065.50	50°	190	110	30	110	10	90
CLK065.55	55°	190	115	20	100	10	100
CLK065.60	60°	190	115	20	100	10	100
CLK065.65	65°	190	130	0	80	10	110
CLK065.70	70°	190	130	0	80	10	110

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

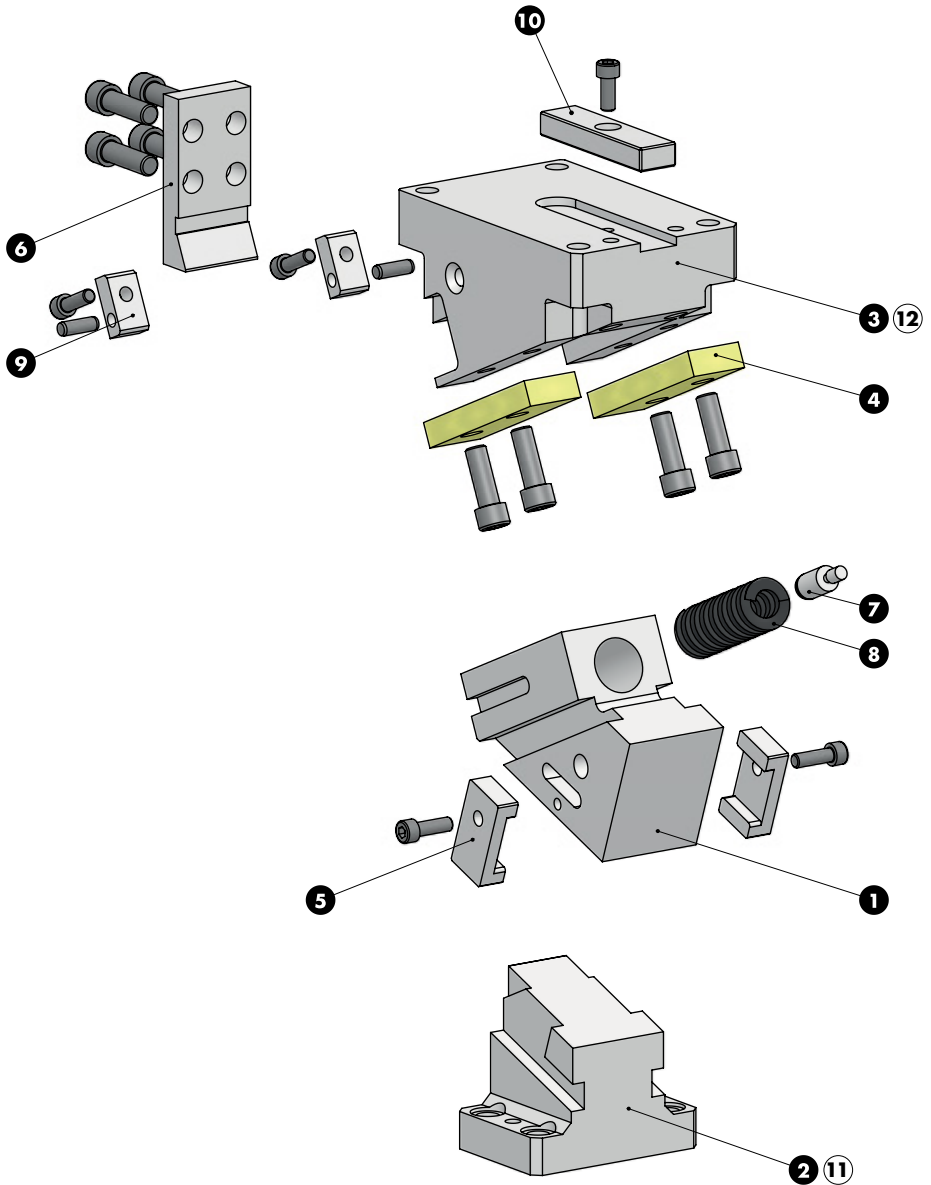
X VIEW



CAM DIAGRAM

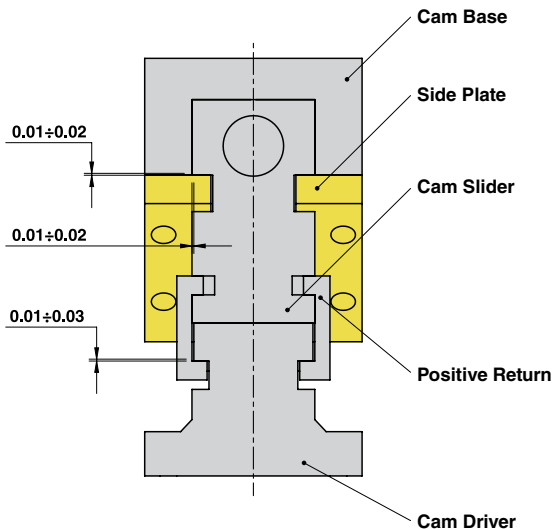


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

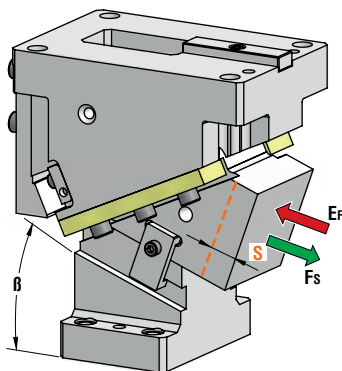
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLK

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	1
8	Spring	-	1
9	Plate	CK45	2
10	Key	CK45	1
11	Cam Driver Fixing Screws M12x45 DIN 912	-	4
12	Cam Base Fixing Screws M12x55 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Spring
CLK100.00	0°	28,28	87	2,10
CLK100.05	5°	28,39	87	2,09
CLK100.10	10°	33,27	87	2,29
CLK100.15	15°	33,92	87	2,09
CLK100.20	20°	30,86	87	2,23
CLK100.25	25°	32	87	2,03
CLK100.30	30°	33,46	87	2,10
CLK100.35	35°	35,38	87	1,91
CLK100.40	40°	39,01	87	2,10
CLK100.45	45°	42,26	87	1,91
CLK100.50	50°	46,67	96	1,91
CLK100.55	55°	52,30	96	1,70
CLK100.60	60°	60	96	1,48
CLK100.65	65°	47,32	96	1,22
CLK100.70	70°	58,48	96	1

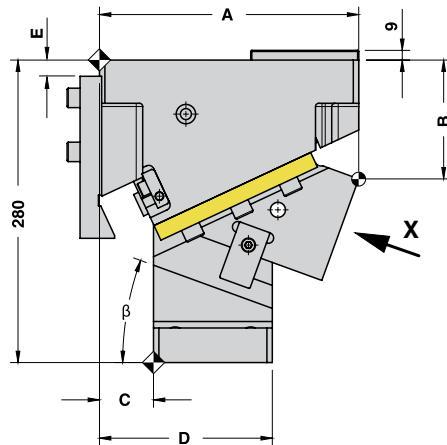
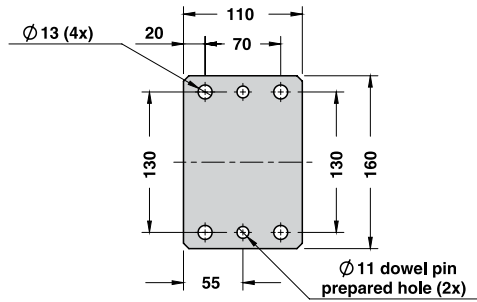
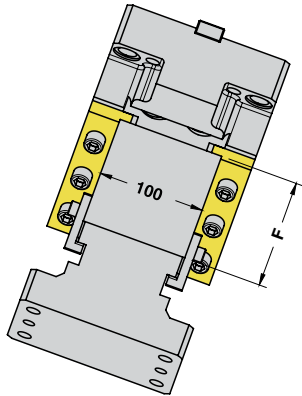


Art.	Work Angle = 5°
CLK100	05

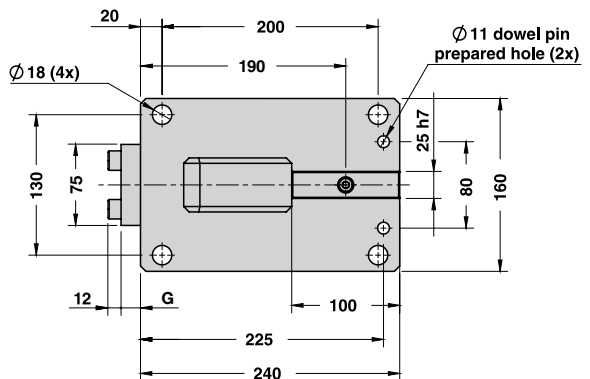
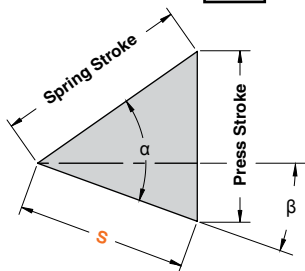
OMCR CODE	Work Angle	Overall Dimensions (mm)						
		B	A	B	C	D	E	F
CLK100.00	0°	240	85	60	170	55	100	17
CLK100.05	5°	236,89	73,82	60	170	55	140	17
CLK100.10	10°	240	90	60	170	35	100	17
CLK100.15	15°	254,35	81,51	60	170	35	140	17
CLK100.20	20°	240	110	50	160	15	100	18
CLK100.25	25°	253,26	102,6	50	160	15	140	18
CLK100.30	30°	240	110	30	140	10	120	17
CLK100.35	35°	252,34	109,69	30	140	10	140	17
CLK100.40	40°	240	115	30	140	10	120	17
CLK100.45	45°	247,41	114,68	30	140	10	140	17
CLK100.50	50°	240	120	10	120	10	140	16
CLK100.55	55°	240	145	0	110	10	140	16
CLK100.60	60°	240	145	0	110	10	140	16
CLK100.65	65°	240	145	0	110	10	140	16
CLK100.70	70°	240	145	0	110	10	140	16

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

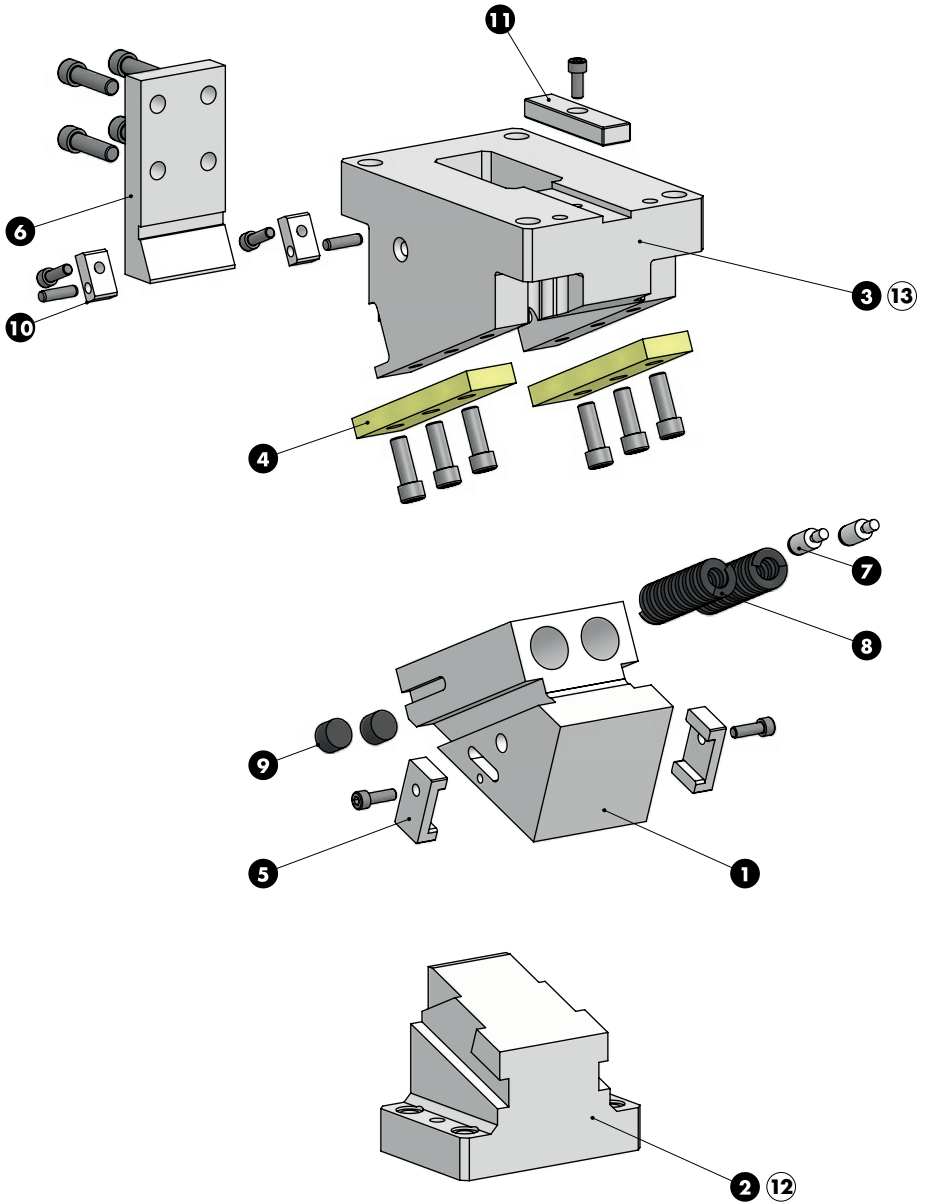
X VIEW



CAM DIAGRAM

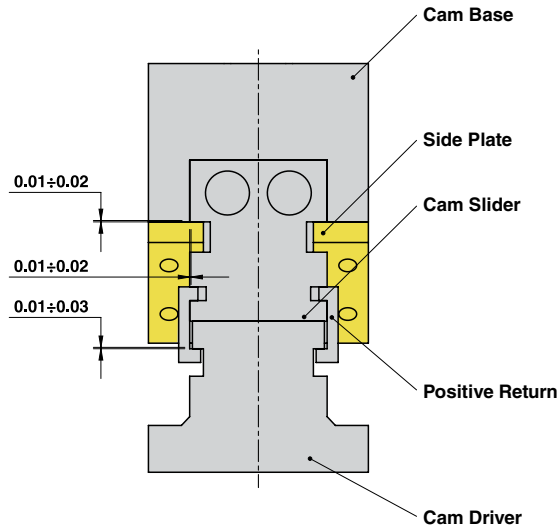


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

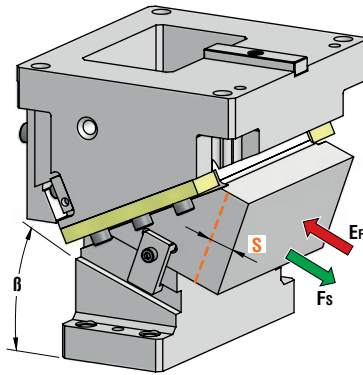
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLK

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	2
8	Spring	-	2
9	Elastomer Cap	Elastomer 92SH	2
10	Plate	CK45	2
11	Key	CK45	1
12	Cam Driver Fixing Screws M12x55 DIN 912	-	4
13	Cam Base Fixing Screws M16x70 DIN 912	-	4

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				Ef
	B	S	Fs	Spring
CLK200.00	0°	28,28	193	4,21
CLK200.05	5°	28,39	193	4,17
CLK200.10	10°	33,27	193	4,59
CLK200.15	15°	33,92	193	4,17
CLK200.20	20°	30,86	193	4,46
CLK200.25	25°	32	193	4,05
CLK200.30	30°	33,46	193	4,20
CLK200.35	35°	35,38	193	3,81
CLK200.40	40°	39,01	193	4,20
CLK200.45	45°	42,26	193	3,81
CLK200.50	50°	46,67	231	3,81
CLK200.55	55°	52,30	231	3,40
CLK200.60	60°	60	231	2,97
CLK200.65	65°	47,32	231	2,45
CLK200.70	70°	58,48	231	1,98

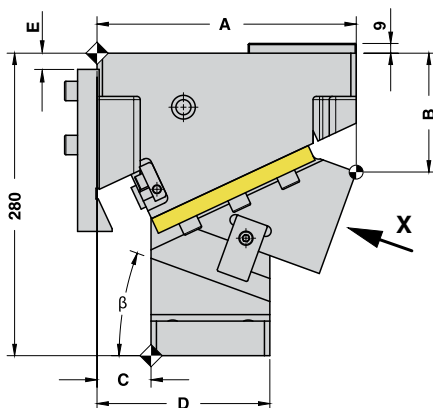
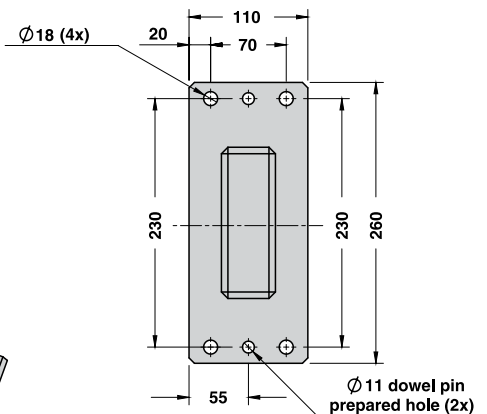
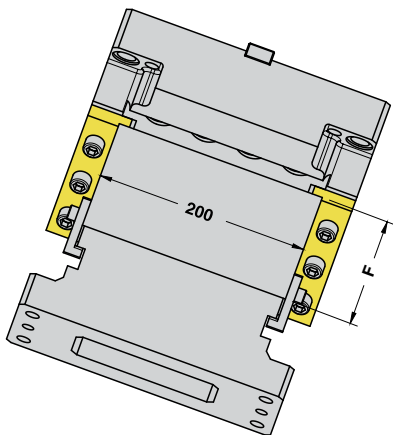


Art.	Work Angle = 5°
CLK200	05

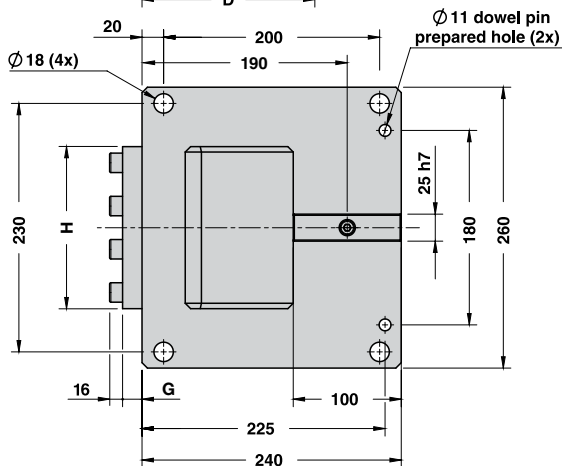
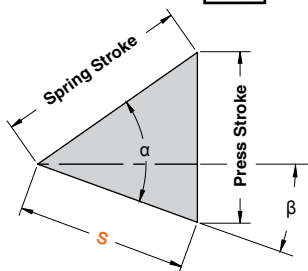
OMCR CODE	Work Angle	Overall Dimensions (mm)							
		B	A	B	C	D	E	F	G
CLK200.00	0°	240	90	60	170	60	100	17	190
CLK200.05	5°	236,82	78,84	60	170	60	130	17	190
CLK200.10	10°	240	90	60	170	35	100	17	150
CLK200.15	15°	254,35	81,51	60	170	35	130	17	150
CLK200.20	20°	240	110	50	160	15	100	18	150
CLK200.25	25°	253,27	102,6	50	160	15	130	18	150
CLK200.30	30°	240	110	30	140	10	120	17	150
CLK200.35	35°	252,34	109,69	30	140	10	140	17	150
CLK200.40	40°	240	115	30	140	10	120	17	150
CLK200.45	45°	247,41	114,68	30	140	10	140	17	150
CLK200.50	50°	240	120	10	120	10	140	16	150
CLK200.55	55°	240	145	0	110	10	140	16	150
CLK200.60	60°	240	145	0	110	10	140	16	150
CLK200.65	65°	240	145	0	110	10	140	16	150
CLK200.70	70°	240	145	0	110	10	140	16	150

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

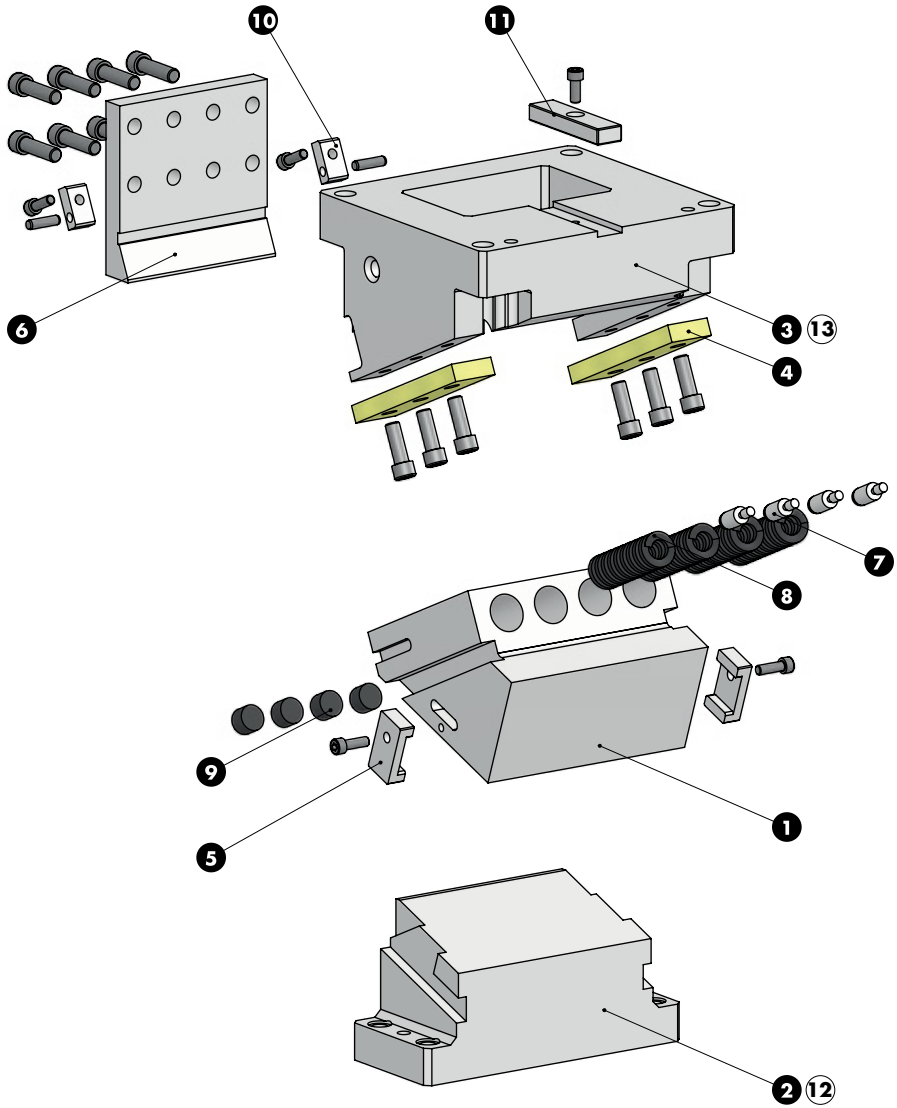
X VIEW



CAM DIAGRAM

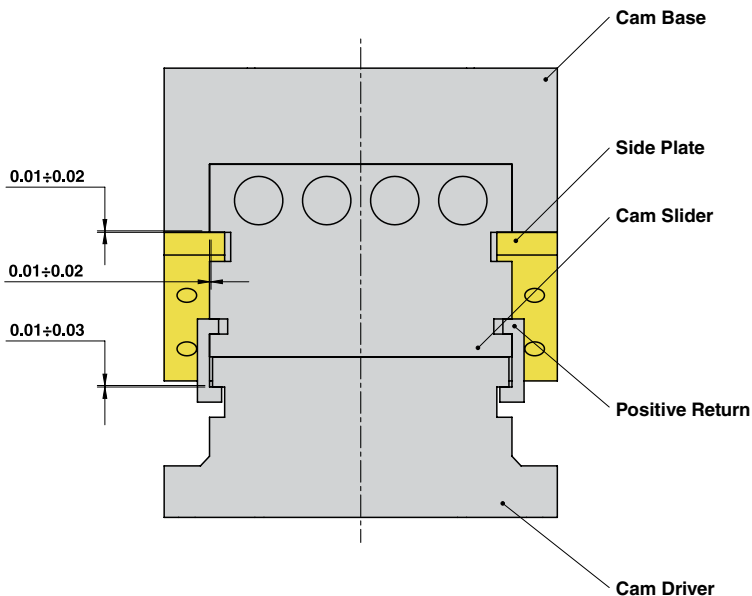


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLK

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	4
8	Spring	-	4
9	Elastomer Cap	Elastomer 92SH	4
10	Plate	CK45	2
11	Key	CK45	1
12	Cam Driver Fixing Screws M16x60 DIN 912	-	4
13	Cam Base Fixing Screws M16x70 DIN 912	-	4



**CAM UNITS CRX
SCHIEBER CRX
CAMME CRX**



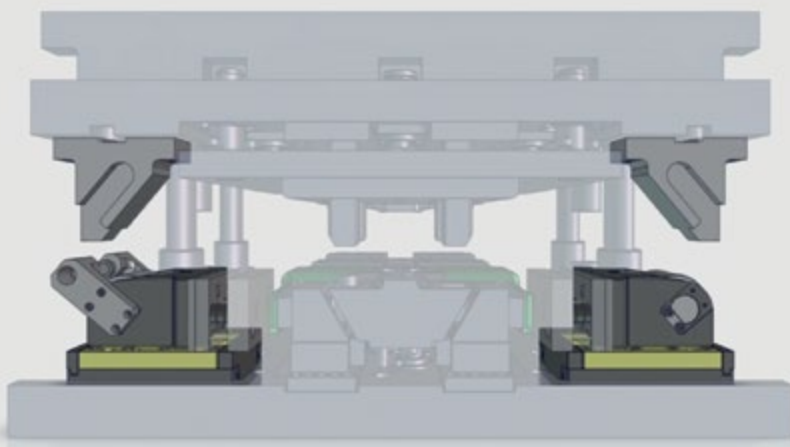


OMCR CODE	Work Angle	Slider Width (mm)	Work Area W x H (mm)	Max Work Force 10 ⁶ cycles (kN)	Extraction Force (kN)
	β			F _s	E _F
CRX03	-15°÷50°	98	98x63	76	2,86÷3,09
CRX05	-15°÷50°	118	118x74	162	6,5÷7,26
CRX15	-15°÷50°	170	170x94	166	6,36÷6,46
CRX20	-15°÷50°	240	240x110	258	9,29÷9,38

ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

OMCR CODE	Roller Cam Model	Work Angle β
DCRX0305	CRX03 - CRX05	-15°÷50° (5° steps)
DCRX1520	CRX15 - CRX20	-15°÷50° (5° steps)

**100% SAFETY WITH POSITIVE RETURN - 100 % SICHERHEIT MIT DER ZWANGSRÜCKHOLUNG
100% SICURA CON IL GANCIO DI RITORNO**

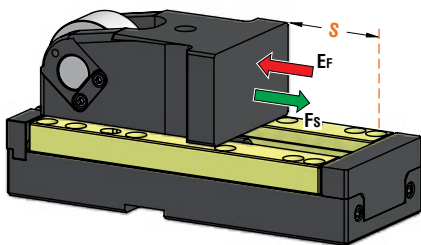


Cam Units CRX

CRX: how does it work?
CRX: wie funktioniert es?
CRX: come funziona?



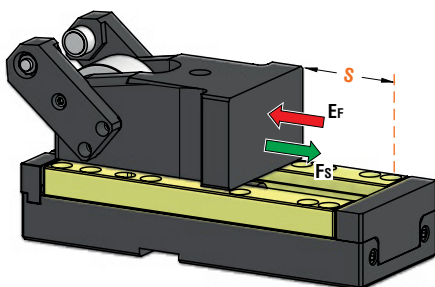
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
			Gas Spring
CRX03.050	50	76	2,86
CRX03.080	80	76	2,89
CRX03.100	100	76	3,09



Without Positive Return - **OPTION K**



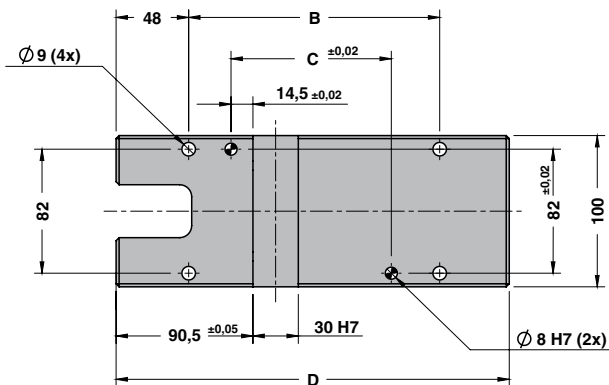
With Positive Return - **OPTION P**

STOCK	ORDER EXAMPLE	Art.	Stroke = 80	OPTION
		CRX03	080	K

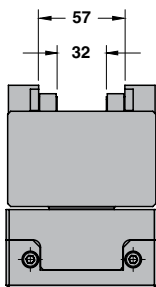
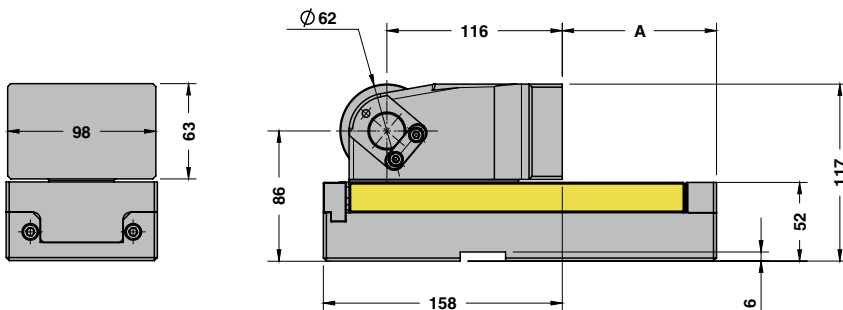
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)				
		S	A	B	C	D
CRX03.050	50	42	116	56	200	212
CRX03.080	80	72	146	86	230	242
CRX03.100	100	102	166	106	260	272



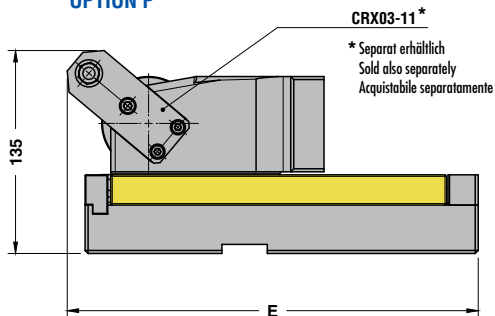
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OPTION K



OPTION P

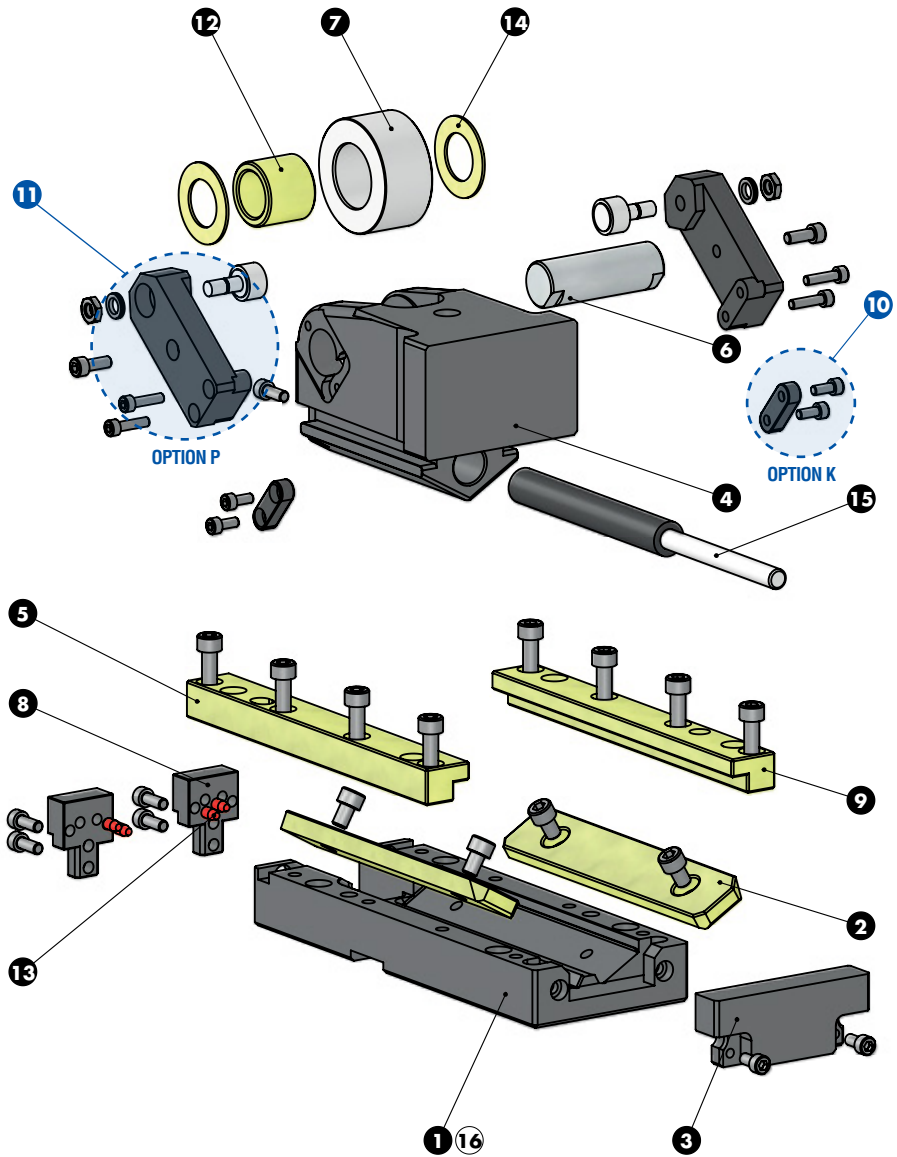


CRX03-11*

* Separat erhältlich
Sold also separately
Acquistabile separatamente



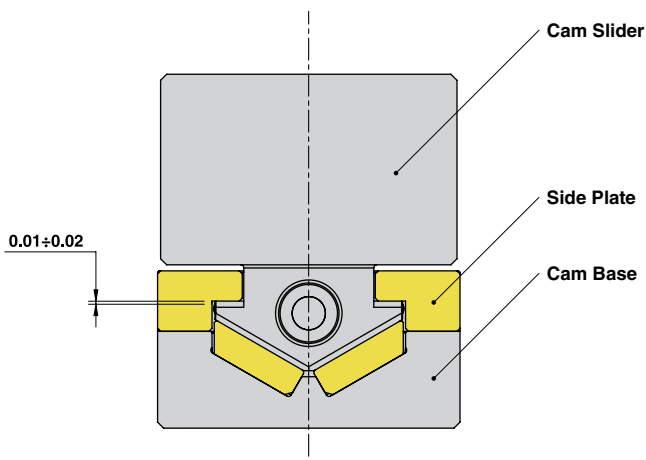
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

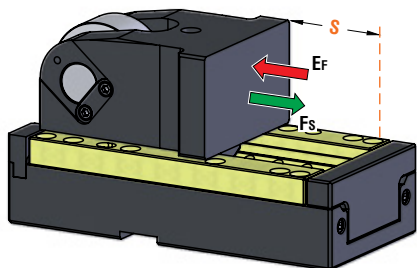
SLIDER STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
3	Spring Stopper Plate	CK45	1
4	Cam Slider	CK45	1
5	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
6	Pin	16NiCrMo4	1
7	Roller	100Cr6	1
8	Stopper Plate	CK45	2
9	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
10	Key - OPTION K	CK45	2
11	Positive Return + Roller SKF KRV19PPA - OPTION P	CK45	2
12	Self-Lubricating Bush	CuZn25Al5 + Graphite - HB > 190	1
13	Elastomer Cap	Elastomer 92SH	4
14	Washer PCMW 264401.5M	-	2
15	Gas Spring	-	1
16	Cam Base Fixing Screws M8x30 DIN 912	-	4



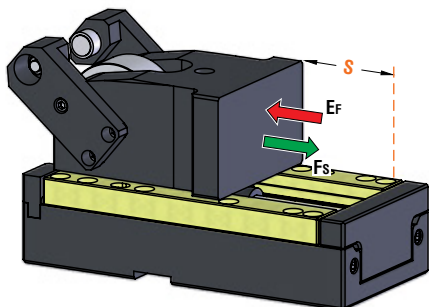
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
			Gas Spring
CRX05.050	50	162	6,5
CRX05.080	80	162	6,62
CRX05.100	100	162	7,26



Without Positive Return - **OPTION K**



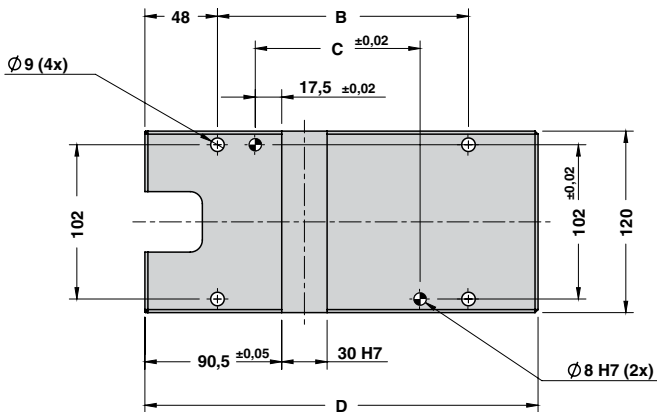
With Positive Return - **OPTION P**

STOCK	ORDER EXAMPLE	Art.	Stroke = 80	OPTION
		CRX05	080	K

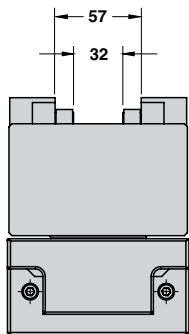
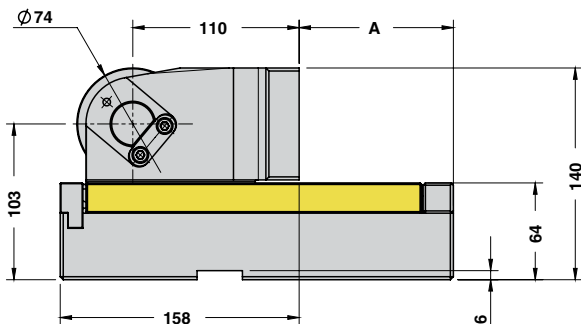
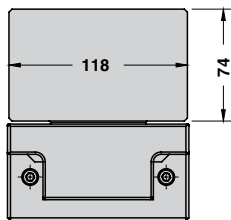
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)				
		S	A	B	C	D
CRX05.050	50	42	116	59	200	213
CRX05.080	80	72	146	89	230	243
CRX05.100	100	102	166	109	260	273



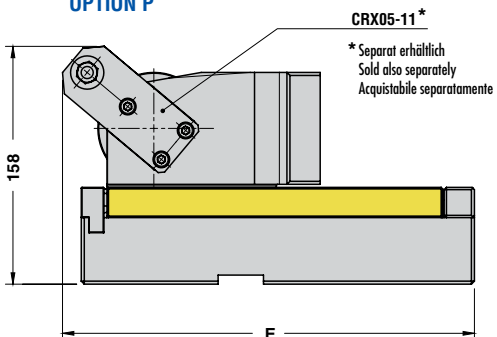
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OPTION K

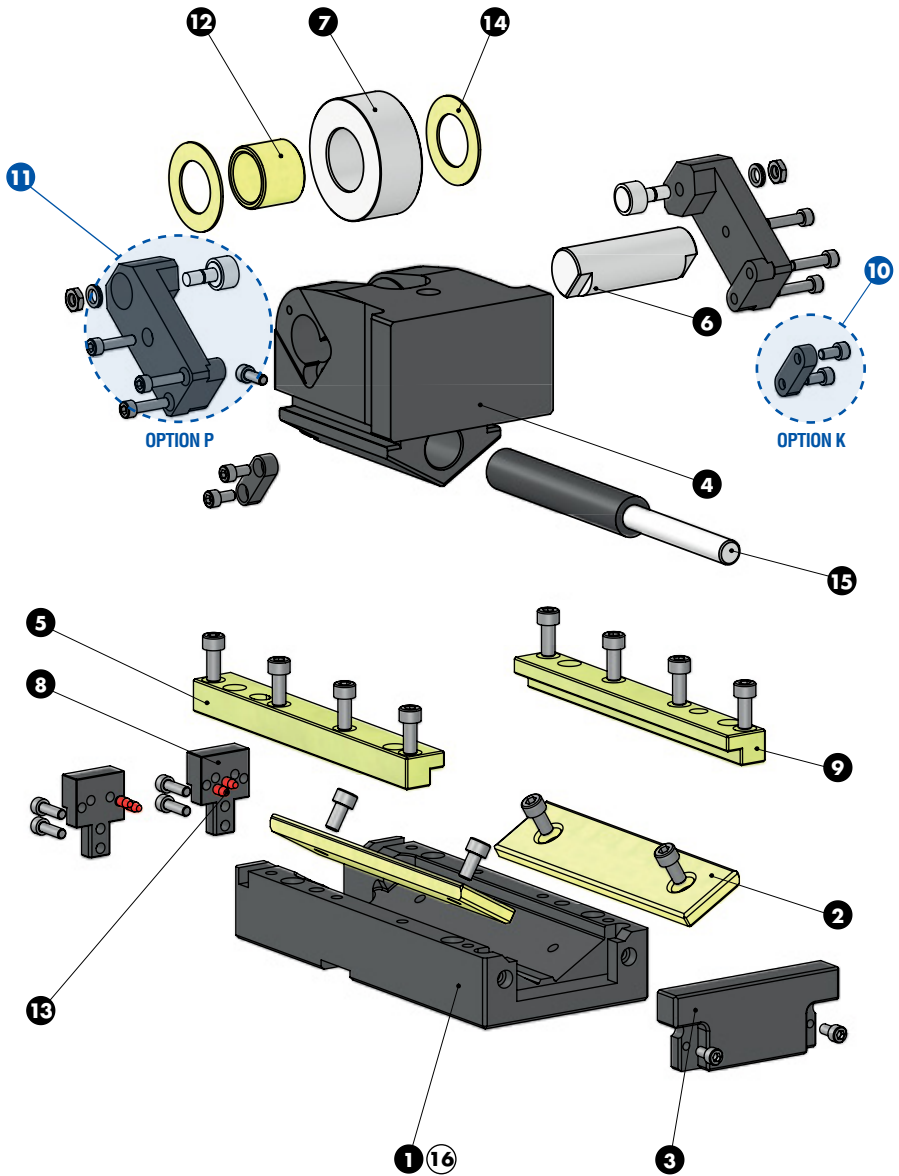


OPTION P





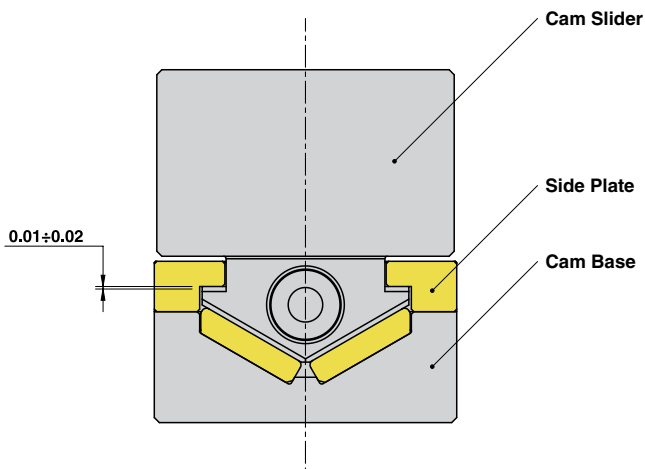
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

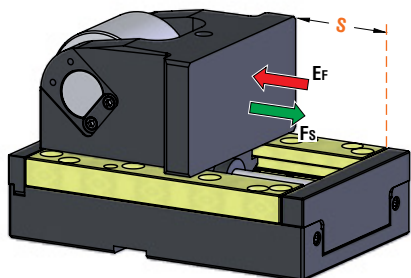
SLIDER STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
3	Spring Stopper Plate	CK45	1
4	Cam Slider	CK45	1
5	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
6	Pin	16NiCrMo4	1
7	Roller	100Cr6	1
8	Stopper Plate	CK45	2
9	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
10	Key - OPTION K	CK45	2
11	Positive Return + Roller SKF KRV19PPA - OPTION P	CK45	2
12	Self-Lubricating Bush	CuZn25Al5 + Graphite - HB > 190	1
13	Elastomer Cap	Elastomer 92SH	4
14	Washer PCMW 325401.5M	-	2
15	Gas Spring	-	1
16	Cam Base Fixing Screws M8x30 DIN 912	-	4



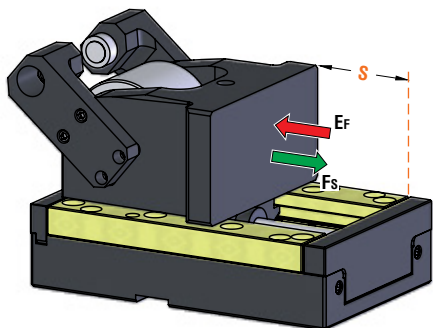
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
			Gas Spring
CRX15.050	50	166	6,36
CRX15.080	80	166	6,43
CRX15.100	100	166	6,46



Without Positive Return - **OPTION K**



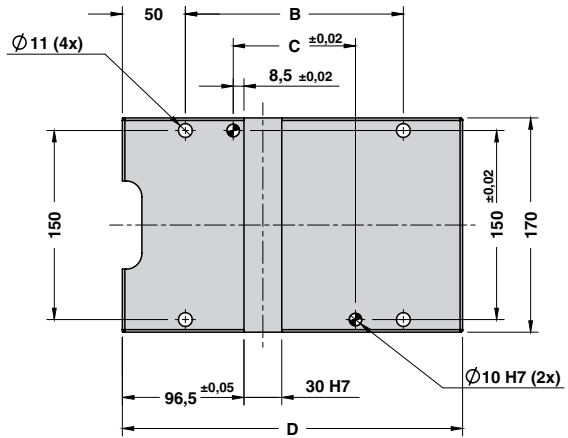
With Positive Return - **OPTION P**

STOCK	ORDER EXAMPLE	Art.	Stroke = 80	OPTION
		CRX15	080	K

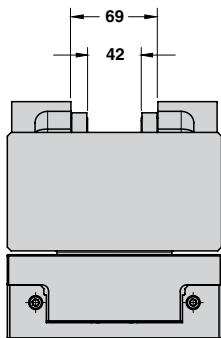
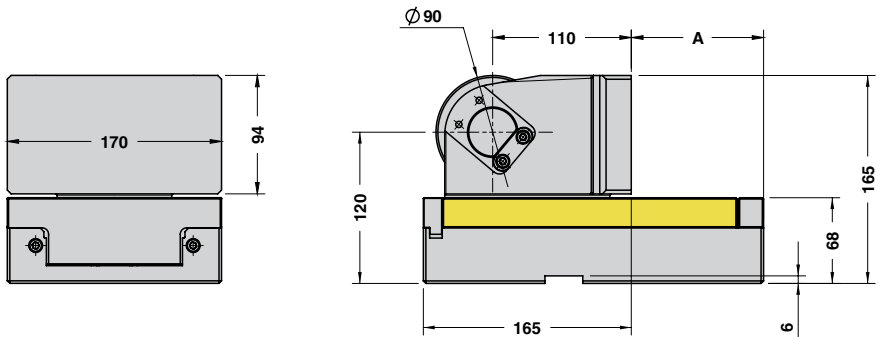
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)				
		S	A	B	C	D
CRX15.050	50	55	123	47	220	243
CRX15.080	80	85	153	77	250	273
CRX15.100	100	105	173	97	270	293



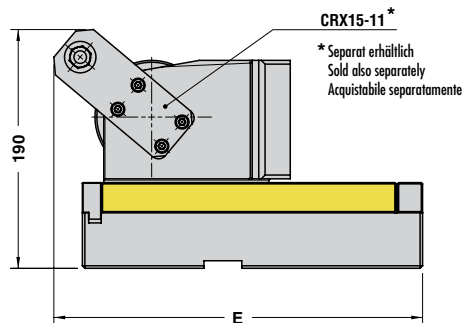
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OPTION K

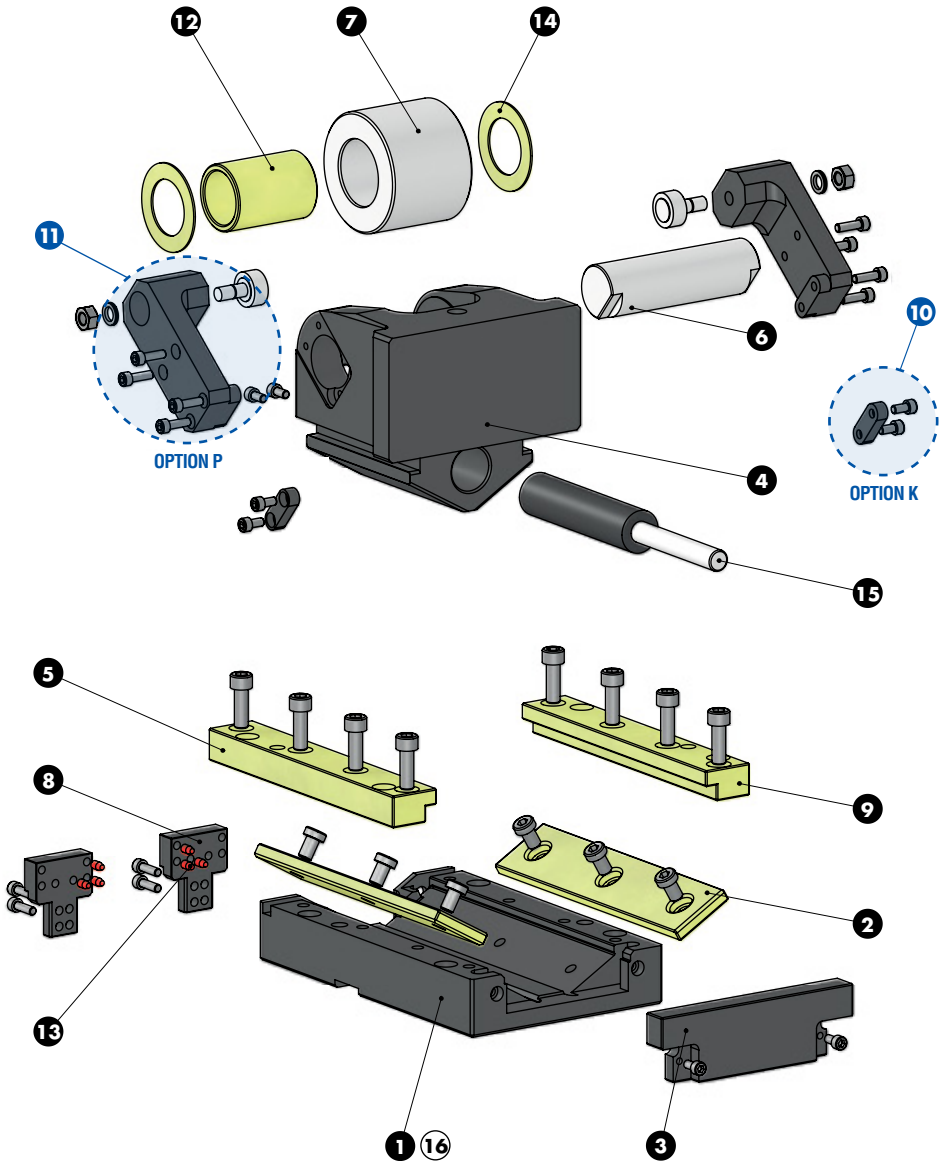


OPTION P





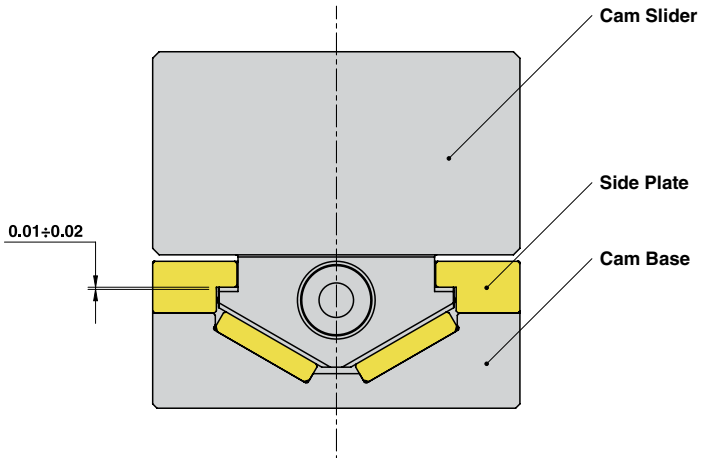
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

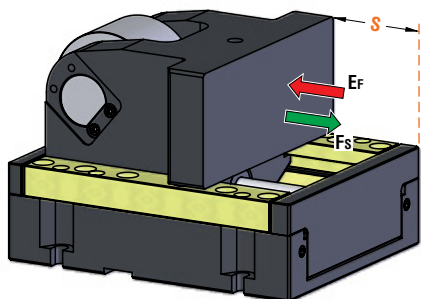
SLIDER STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
3	Gas Spring Stopper Plate	CK45	1
4	Cam Slider	CK45	1
5	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
6	Pin	16NiCrMo4	1
7	Roller	100Cr6	1
8	Stopper Plate	CK45	2
9	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
10	Key - OPTION K	CK45	2
11	Positive Return + Roller SKF KRV26PPA - OPTION P	CK45	2
12	Self-Lubricating Bush	CuZn25Al5 + Graphite - HB > 190	1
13	Elastomer Cap	Elastomer 92SH	6
14	Washer PCMW 426601.5M	-	2
15	Gas Spring	-	1
16	Cam Base Fixing Screws M10x35 DIN 912	-	4



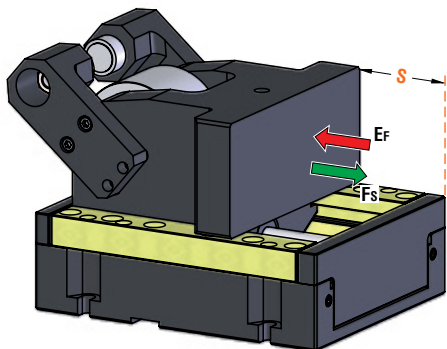
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
			E_f Gas Spring
CRX20.050	50	258	9,29
CRX20.080	80	258	9,36
CRX20.100	100	258	9,38



Without Positive Return - **OPTION K**



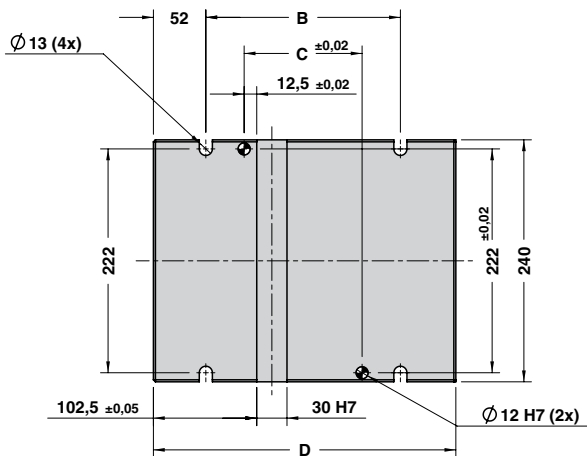
With Positive Return - **OPTION P**

STOCK	ORDER EXAMPLE	Art.	Stroke = 80	OPTION
		CRX20	080	K

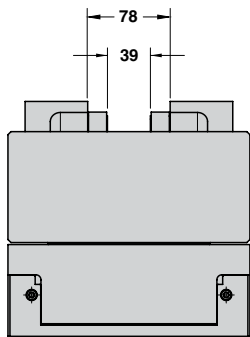
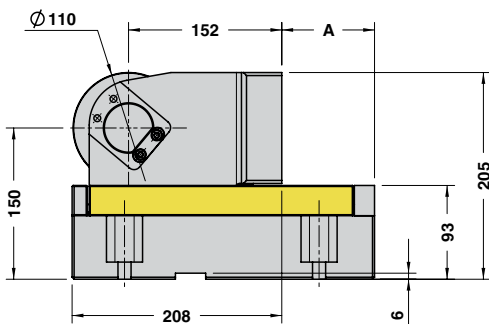
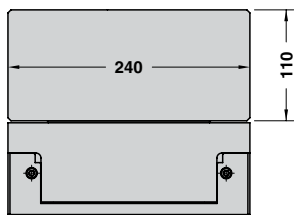
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)				
		S	A	B	C	D
CRX20.050	50	42	143	67	250	290
CRX20.080	80	72	173	97	280	320
CRX20.100	100	92	193	117	300	340



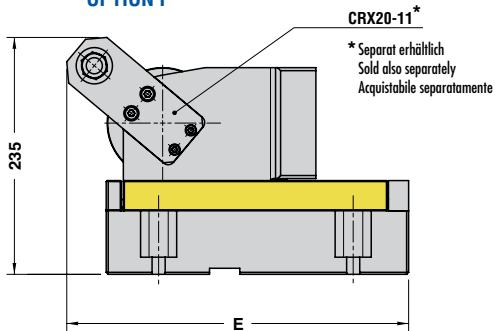
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OPTION K

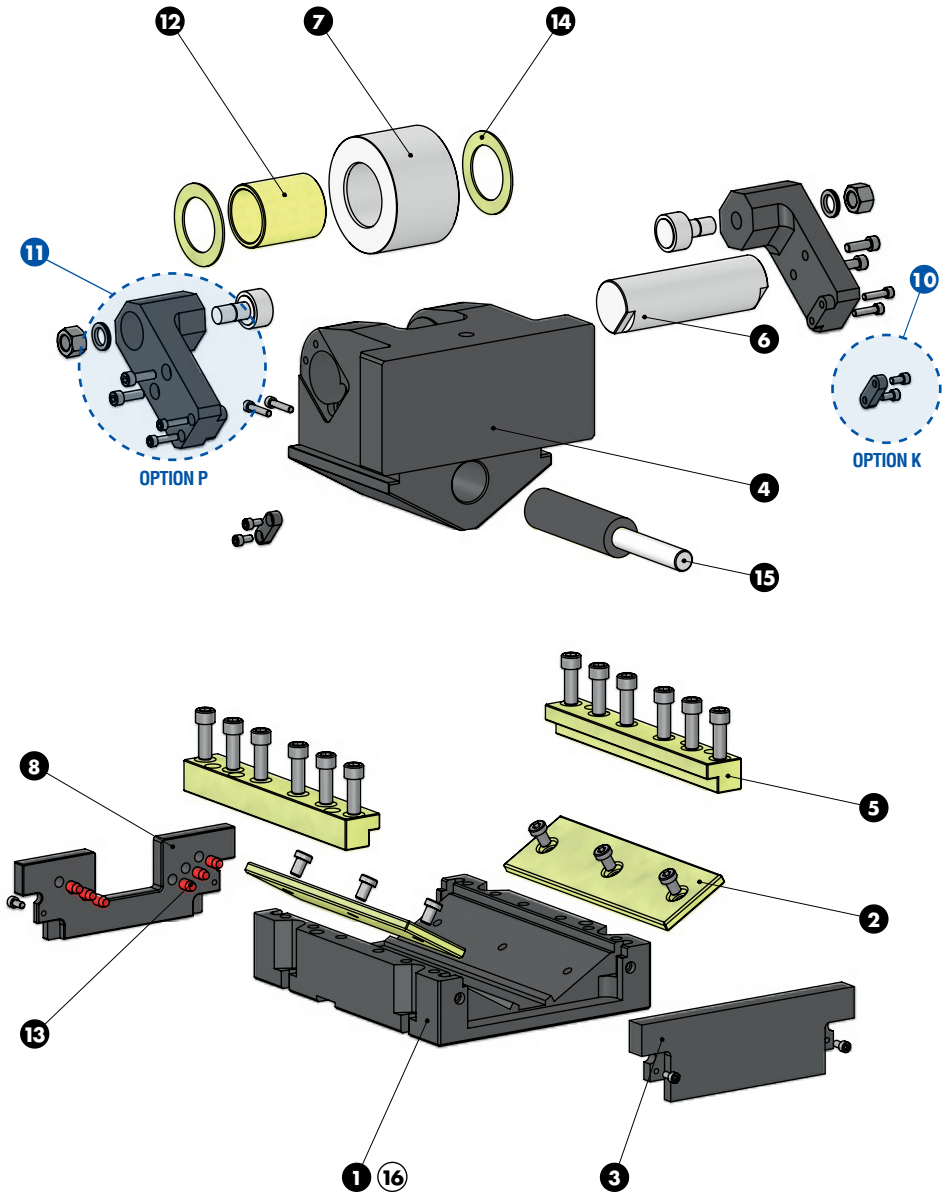


OPTION P





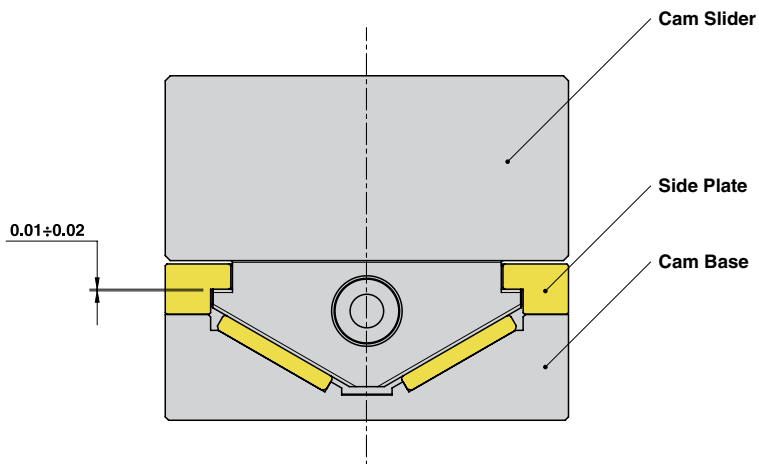
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES

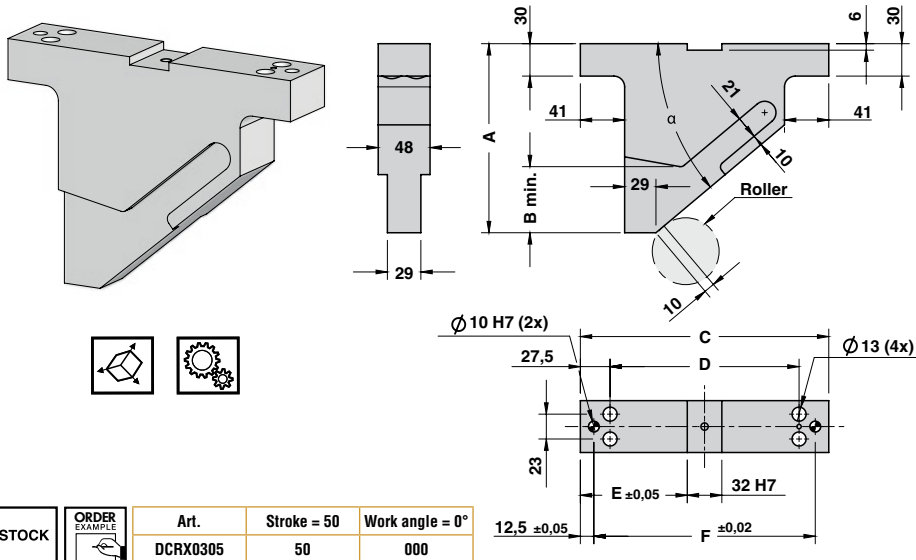


Cam Units CRX

Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Wear Plate	CuZn25Al5 + Graphite - HB > 190	2
3	Gas Spring Stopper Plate	CK45	1
4	Cam Slider	CK45	1
5	Side Plate	CuZn25Al5 + Graphite - HB > 190	2
6	Pin	16NiCrMo4	1
7	Roller	100Cr6	1
8	Stopper Plate	CK45	1
10	Key - OPTION K	CK45	2
11	Positive Return + Roller SKF KRV35PPA - OPTION P	CK45	2
12	Self-Lubricating Bush	CuZn25Al5 + Graphite - HB > 190	1
13	Elastomer Cap	Elastomer 92SH	6
14	Washer PCMW 52780.2M	-	2
15	Gas Spring	-	1
16	Cam Base Fixing Screws M12x35 DIN 912	-	4



ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO



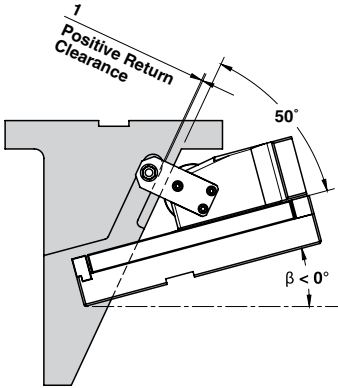
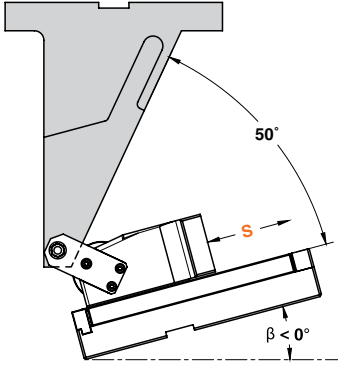
STOCK	ORDER EXAMPLE	Art.	Stroke = 50	Work angle = 0°
		DCRX0305	50	000

OMCR CODE	ROLLER CAM MODEL	Stroke (mm)	Work Angle	Overall Dimensions (mm)						
		S	β	α	A	B min.	C	D	E	F
DCRX0305.50.H15	CRX03.050 CRX05.050	50	-15°	65°	185	70	180	125	74	155
DCRX0305.50.H10		50	-10°	60°	165	70	180	125	74	155
DCRX0305.50.H05		50	-5°	55°	155	60	180	125	74	155
DCRX0305.50.000		50	0°	50°	145	50	180	125	74	155
DCRX0305.50.L05		50	5°	45°	135	40	180	125	74	155
DCRX0305.50.L10		50	10°	40°	130	35	180	125	74	155
DCRX0305.50.L15		50	15°	35°	125	30	180	125	74	155
DCRX0305.50.L20		50	20°	30°	120	25	180	125	74	155
DCRX0305.50.L25		50	25°	25°	110	40	180	125	74	155
DCRX0305.50.L30		50	30°	20°	100	30	180	125	74	155
DCRX0305.50.L35		50	35°	15°	95	25	180	125	74	155
DCRX0305.50.L40		50	40°	10°	90	20	180	125	74	155
DCRX0305.50.L45		50	45°	5°	85	25	180	125	74	155
DCRX0305.50.L50		50	50°	0°	80	30	180	125	74	155
DCRX0305.80.H15		CRX03.080 CRX03.100 CRX05.080 CRX05.100	80-100	-15°	65°	280	160	230	175	99
DCRX0305.80.H10	80-100		-10°	60°	250	130	230	175	99	205
DCRX0305.80.H05	80-100		-5°	55°	220	100	230	175	99	205
DCRX0305.80.000	80-100		0°	50°	200	80	230	175	99	205
DCRX0305.80.L05	80-100		5°	45°	180	60	230	175	99	205
DCRX0305.80.L10	80-100		10°	40°	175	55	230	175	99	205
DCRX0305.80.L15	80-100		15°	35°	170	50	230	175	99	205
DCRX0305.80.L20	80-100		20°	30°	165	45	230	175	99	205
DCRX0305.80.L25	80-100		25°	25°	155	65	230	175	99	205
DCRX0305.80.L30	80-100		30°	20°	145	55	230	175	99	205
DCRX0305.80.L35	80-100		35°	15°	130	50	230	175	99	205
DCRX0305.80.L40	80-100		40°	10°	115	55	230	175	99	205
DCRX0305.80.L45	80-100		45°	5°	105	45	230	175	99	205
DCRX0305.80.L50	80-100		50°	0°	95	55	230	175	99	205

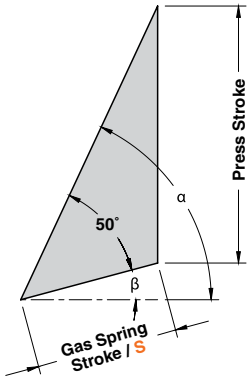


ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

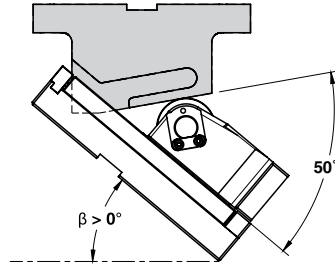
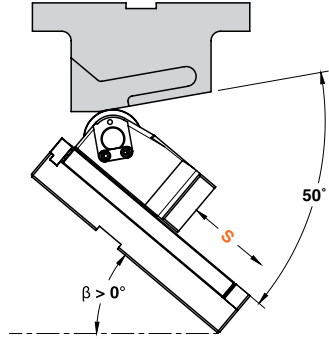
EXAMPLE FOR
WORK ANGLE $\beta < 0^\circ$
(CRX03.100.P)



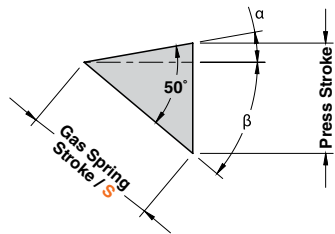
CAM DIAGRAM



EXAMPLE FOR
WORK ANGLE $\beta > 0^\circ$
(CRX03.100.K)

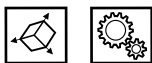
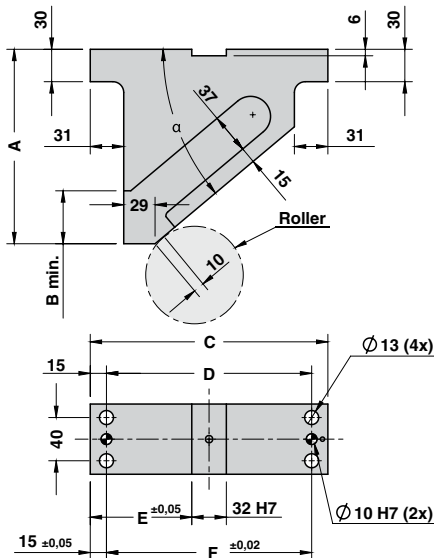
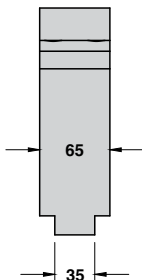
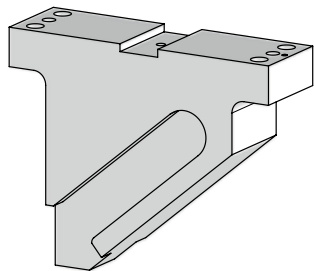


CAM DIAGRAM





ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO



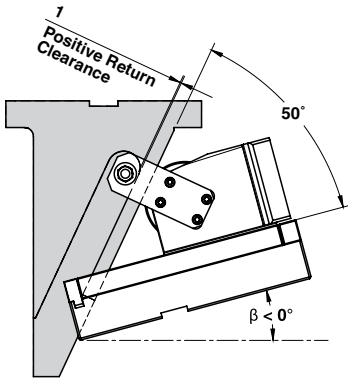
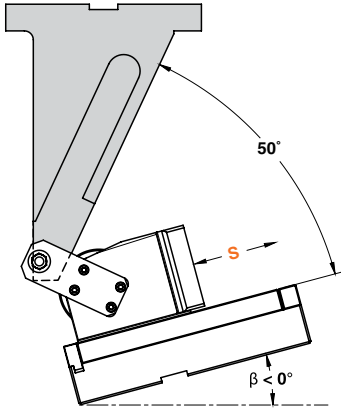
STOCK	ORDER EXAMPLE	Art.	Stroke = 50	Work angle = 0°
		DCRX1520	50	000

OMCR CODE	ROLLER CAM MODEL	Stroke (mm)	Work Angle	Overall Dimensions (mm)						
		S	β	α	A	B min.	C	D	E	F
DCRX1520.50.H15	CRX15.050 CRX20.050	50	-15°	65°	200	66	170	140	69	140
DCRX1520.50.H10		50	-10°	60°	175	59	170	140	69	140
DCRX1520.50.H05		50	-5°	55°	155	55	170	140	69	140
DCRX1520.50.000		50	0°	50°	145	52	170	140	69	140
DCRX1520.50.L05		50	5°	45°	135	50	170	140	69	140
DCRX1520.50.L10		50	10°	40°	130	49	170	140	69	140
DCRX1520.50.L15		50	15°	35°	125	49	170	140	69	140
DCRX1520.50.L20		50	20°	30°	120	49	170	140	69	140
DCRX1520.50.L25		50	25°	25°	110	49	170	140	69	140
DCRX1520.50.L30		50	30°	20°	100	50	170	140	69	140
DCRX1520.50.L35		50	35°	15°	95	52	170	140	69	140
DCRX1520.50.L40		50	40°	10°	90	53	170	140	69	140
DCRX1520.50.L45		50	45°	5°	85	50	170	140	69	140
DCRX1520.50.L50		50	50°	0°	80	0	170	140	69	140
DCRX1520.80.H15		CRX15.080 CRX15.100 CRX20.080 CRX20.100	80-100	-15°	65°	310	66	220	190	94
DCRX1520.80.H10	80-100		-10°	60°	260	59	220	190	94	190
DCRX1520.80.H05	80-100		-5°	55°	230	55	220	190	94	190
DCRX1520.80.000	80-100		0°	50°	210	52	220	190	94	190
DCRX1520.80.L05	80-100		5°	45°	185	50	220	190	94	190
DCRX1520.80.L10	80-100		10°	40°	180	49	220	190	94	190
DCRX1520.80.L15	80-100		15°	35°	170	49	220	190	94	190
DCRX1520.80.L20	80-100		20°	30°	165	49	220	190	94	190
DCRX1520.80.L25	80-100		25°	25°	150	49	220	190	94	190
DCRX1520.80.L30	80-100		30°	20°	145	50	220	190	94	190
DCRX1520.80.L35	80-100		35°	15°	125	52	220	190	94	190
DCRX1520.80.L40	80-100		40°	10°	115	53	220	190	94	190
DCRX1520.80.L45	80-100		45°	5°	105	50	220	190	94	190
DCRX1520.80.L50	80-100		50°	0°	95	52	220	190	94	190

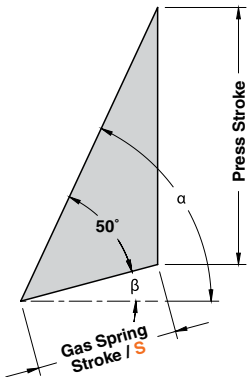


ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

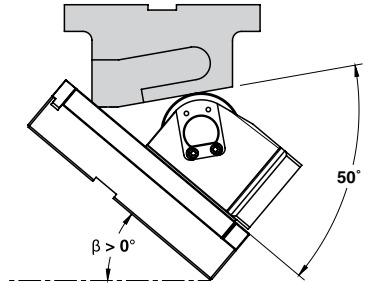
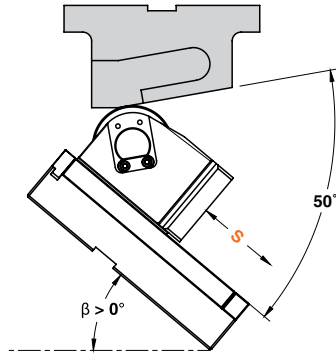
EXAMPLE FOR
WORK ANGLE $\beta < 0^\circ$
(CRX15.100.P)



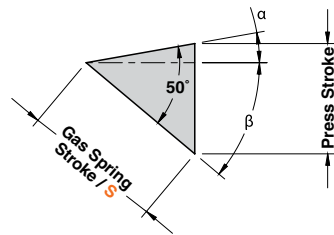
CAM DIAGRAM



EXAMPLE FOR
WORK ANGLE $\beta > 0^\circ$
(CRX15.100.K)



CAM DIAGRAM





OMCR®

STANDARD DIE COMPONENTS



**CAM UNITS DHC
SCHIEBER DHC
CAMME DHC**





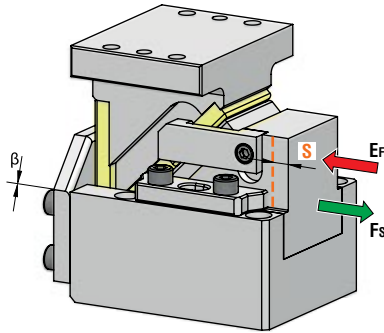
OMCR CODE	Work Angle β	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)	
						F _s	Spring
DHC052	0°	52	140	52x65	38	0,62÷0,65	-
DHC065	0÷20°	65	160 (00.40÷05.45 / 10.45) 170 (05.70 / 10.70÷20.70)	65x70	44÷48	0,78÷1,02	-
DHC100	0÷20°	100	200	100x100	75÷82	1,17÷1,20	4,6÷6,1
DHC150	0÷20°	150	220 (00.40÷15.45 / 20.45) 230 (15.70 / 20.70)	150x100	120÷127	1,91÷1,95	4,6÷6,6
DHC200	0°	200	240	200x110	176	2,91÷2,93	8,6÷10,1
DHC250	0°	250	270	250x130	232	3,80÷3,83	8,6÷9,4
DHC300	0°	300	270	300x130	272	3,80÷3,83	8,6÷9,4
DHC400	0°	400	250	400x150	480	9,54	-



Optimised logistics for top service



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

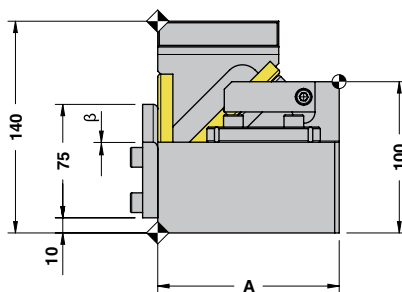
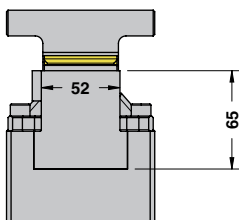
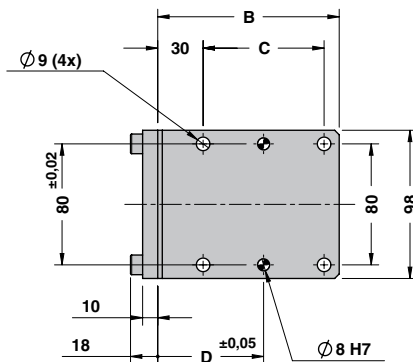


OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f
DHC052.00.25	0°	25	38	0,62
DHC052.00.40	0°	40	38	0,63
DHC052.00.60	0°	60	38	0,65

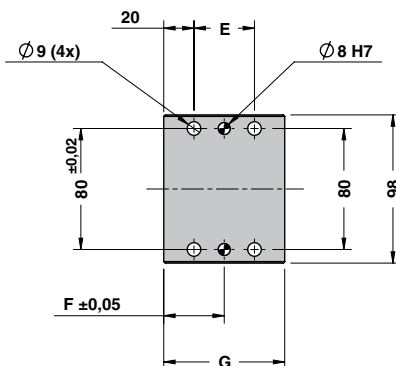
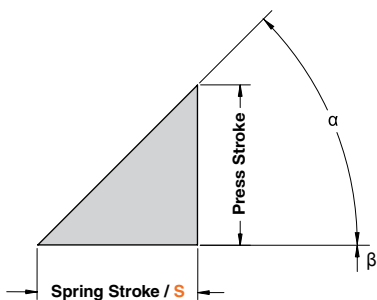


Art.	Work Angle = 0°	Stroke = 40
DHC052	00	40

OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)							
			β	S	A	B	C	D	E	F
DHC052.00.25	0°	25	120	120	80	70	40	40	40	80
DHC052.00.40	0°	40	135	135	95	80	50	45	45	90
DHC052.00.60	0°	60	180	180	140	55	70	55	55	110

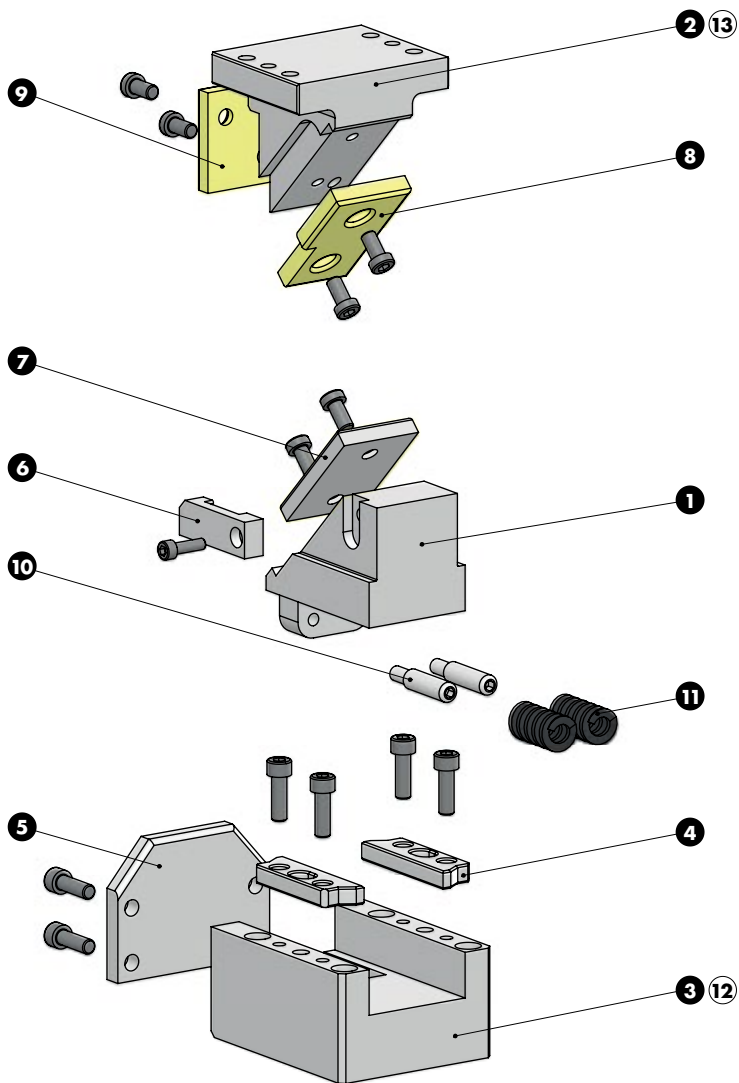


CAM DIAGRAM





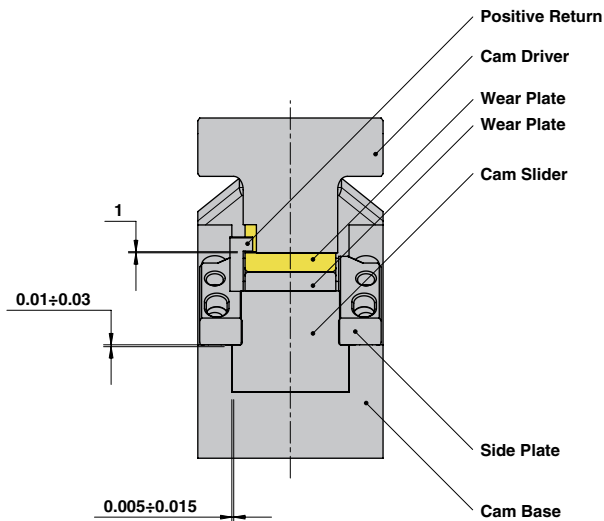
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

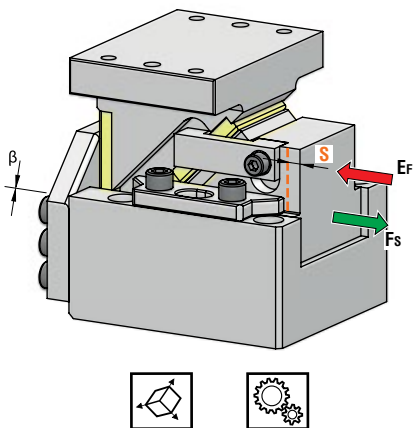
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear plate	CK45	1
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Spring Guide Pin	CK45	2
11	Spring	-	2
12	Cam Base Fixing Screws M8x50 DIN 912	-	4
13	Cam Driver Fixing Screws M8x30 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

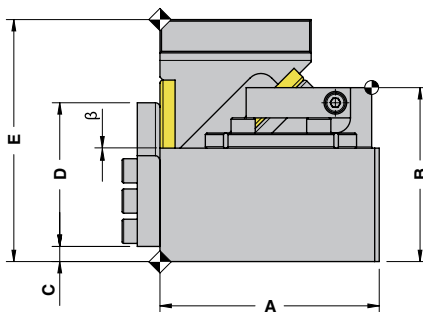
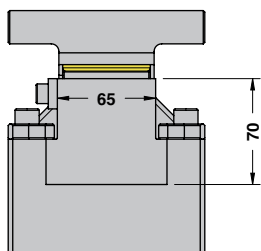
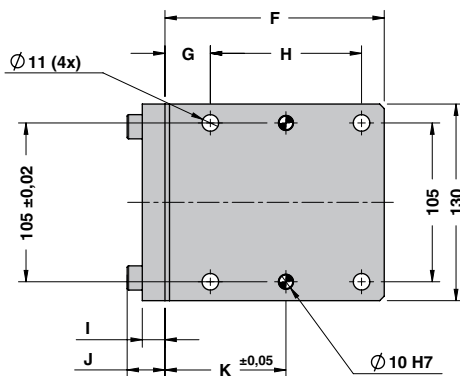


OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Spring
DHC065.00.40	0°	40	44	0,79
DHC065.00.60	0°	60	44	0,80
DHC065.05.45	5°	45	48	0,78
DHC065.05.70	5°	70	48	1,02
DHC065.10.45	10°	45	48	0,78
DHC065.10.70	10°	70	48	1,02
DHC065.15.45	15°	45	48	0,78
DHC065.15.70	15°	70	48	1,02
DHC065.20.45	20°	45	48	0,78
DHC065.20.70	20°	70	48	1,02

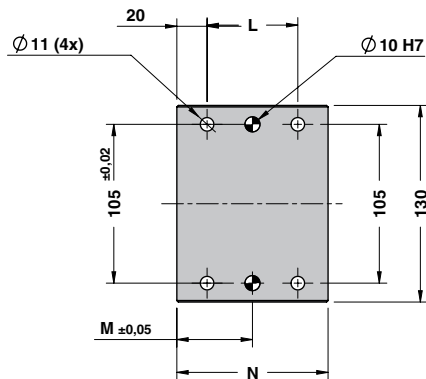
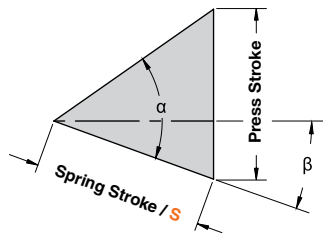


Art.	Work Angle = 0°	Stroke = 60
DHC065	00	60

OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)													
			β	S	A	B	C	D	E	F	G	H	I	J	K	L
DHC065.00.40	0°	40	140	115	25	50	160	145	30	100	12	27	80	60	50	100
DHC065.00.60	0°	60	190	115	25	50	160	180	40	125	12	22	105	70	55	110
DHC065.05.45	5°	45	150,55	112,10	12,5	100	160	145	30	100	15	25	80	60	50	100
DHC065.05.70	5°	70	195,38	123,17	25	100	170	180	40	125	15	25	65	60	50	100
DHC065.10.45	10°	45	154,95	108,76	20	100	160	145	30	100	15	25	79	60	50	100
DHC065.10.70	10°	70	199,27	110,94	25	100	170	180	40	125	15	25	65	60	50	100
DHC065.15.45	15°	45	158,18	105,09	25	100	170	145	30	100	15	25	80	60	50	100
DHC065.15.70	15°	70	201,64	103,44	40	100	170	180	40	125	15	25	65	70	55	110
DHC065.20.45	20°	45	160,20	101,19	30	100	170	145	30	100	15	25	80	60	50	100
DHC065.20.70	20°	70	202,48	95,79	40	100	170	180	40	125	15	25	65	70	55	110

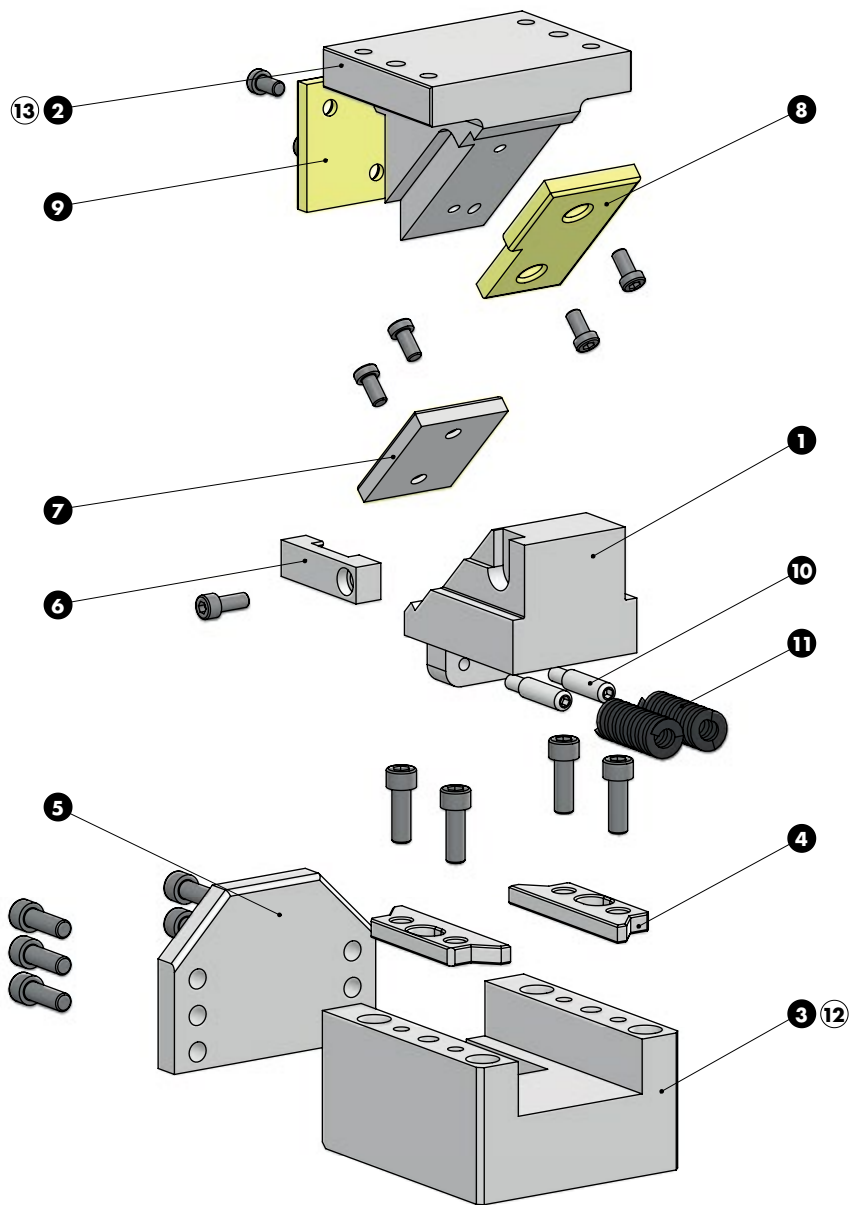


CAM DIAGRAM





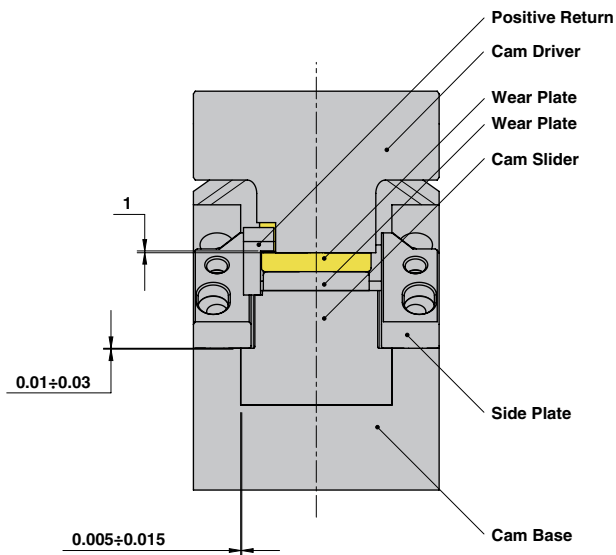
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

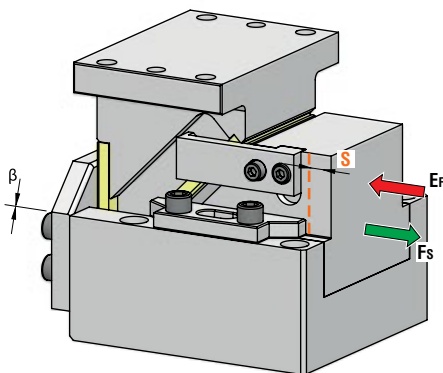
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear plate	CK45	1
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Spring Guide Pin	CK45	2
11	Spring	-	2
12	Cam Base Fixing Screws M10x50 DIN 912	-	4
13	Cam Driver Fixing Screws M10x40 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	Fs	Ef	
DHC100.00.40	0°	40	75	1,19	4,6
DHC100.00.60	0°	60	75	1,20	5,9
DHC100.00.80	0°	80	75	1,36	6,8
DHC100.05.45	5°	45	82	1,17	4,6
DHC100.05.70	5°	70	82	1,20	6,1
DHC100.10.45	10°	45	82	1,17	4,6
DHC100.10.70	10°	70	82	1,20	6,1
DHC100.15.45	15°	45	82	1,17	4,6
DHC100.15.70	15°	70	82	1,20	6,1
DHC100.20.45	20°	45	82	1,17	4,6
DHC100.20.70	20°	70	82	1,20	6,1

*Return Type: G = Gas Spring / S = Spring

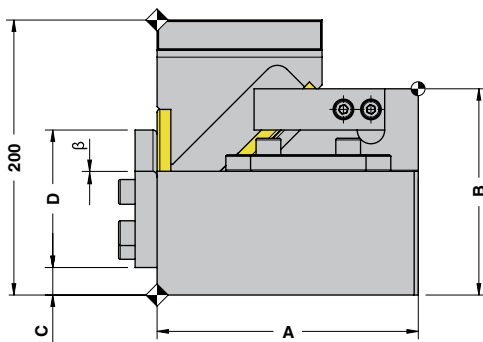
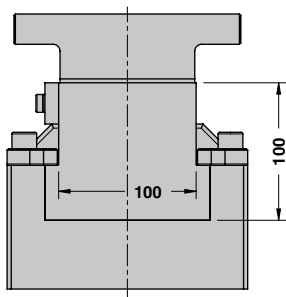
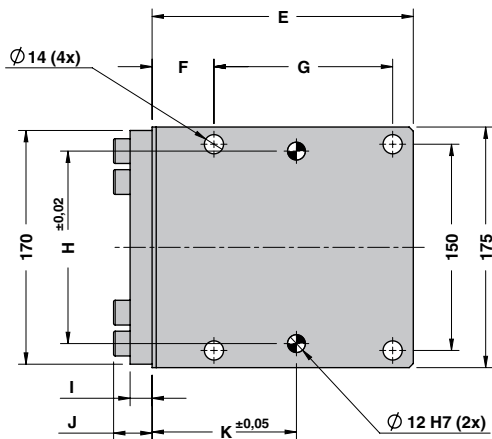


Art.	Work Angle = 0°	Stroke = 60	Return Type*
DHC100	00	60	G

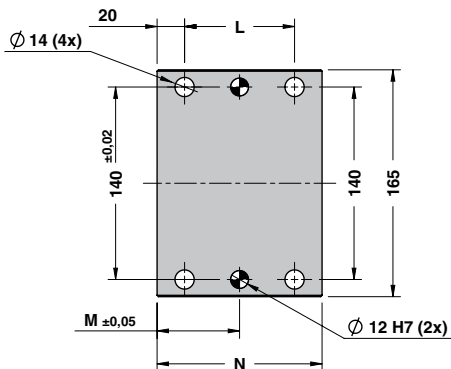
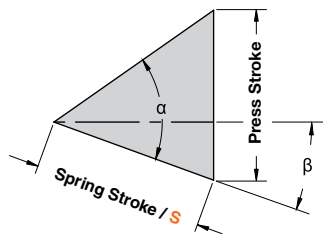
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)													
			β	S	A	B	C	D	E	F	G	H	I	J	K	L
DHC100.00.40	0°	40	190	150	30	60	190	45	130	140	16	28	105	80	60	120
DHC100.00.60	0°	60	210	150	30	60	190	45	130	140	16	28	105	100	70	140
DHC100.00.80	0°	80	250	150	10	115	220	45	160	140	15	27	135	110	75	150
DHC100.05.45	5°	45	172,22	145,28	27,5	115	160	40	105	140	15	27	90	60	50	100
DHC100.05.70	5°	70	207,08	147,23	30	115	190	45	130	150	15	27	70	80	60	120
DHC100.10.45	10°	45	178,12	134,98	30	115	160	40	105	140	15	27	90	60	50	100
DHC100.10.70	10°	70	212,59	133,90	30	115	190	45	130	150	15	27	70	80	60	120
DHC100.15.45	15°	45	182,67	129,23	32,5	115	160	40	105	140	15	27	90	70	55	110
DHC100.15.70	15°	70	216,48	130,17	35	115	190	45	130	150	15	27	70	90	65	130
DHC100.20.45	20°	45	185,83	118,14	35	115	160	40	105	140	15	27	90	70	55	110
DHC100.20.70	20°	70	218,72	121,17	45	115	190	45	130	150	15	27	70	90	65	130



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

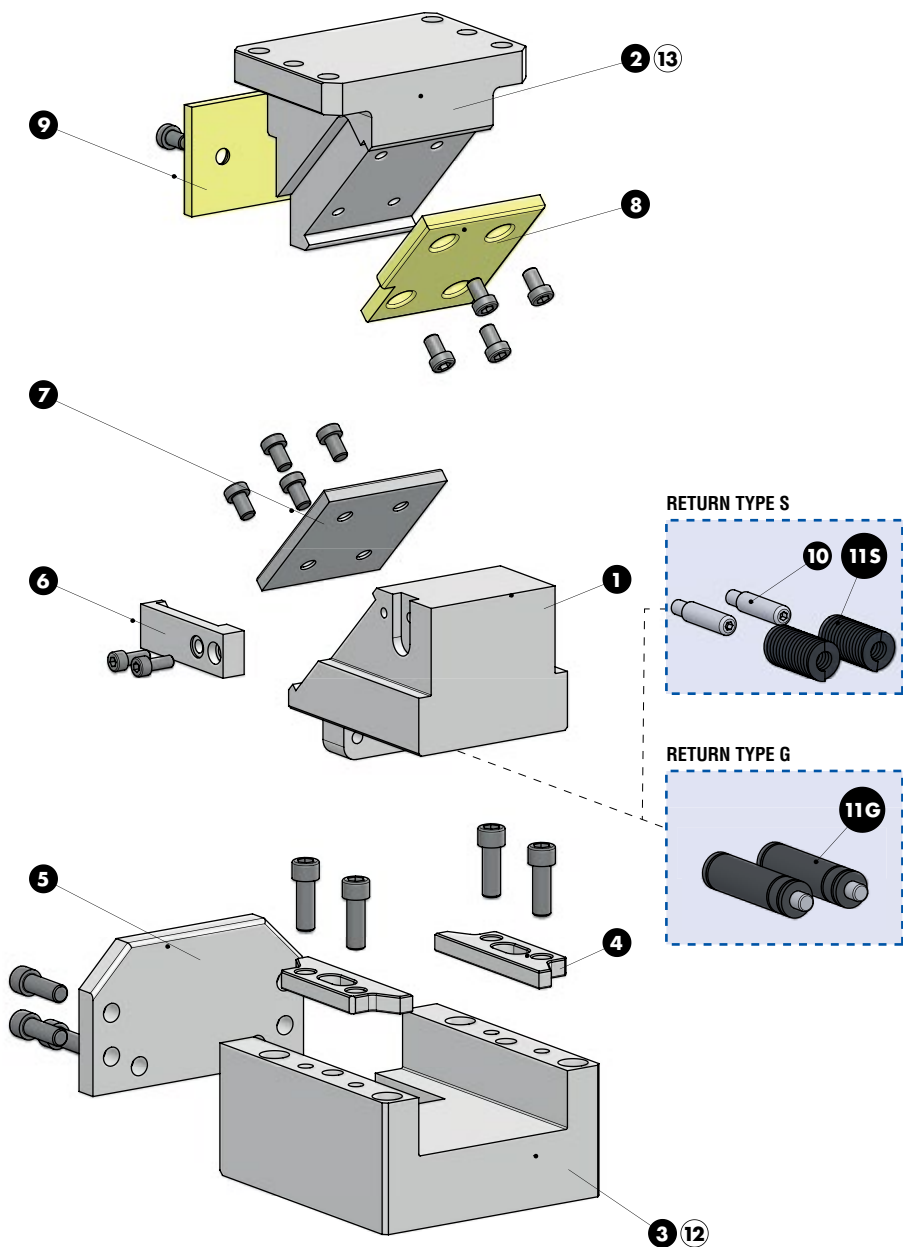


CAM DIAGRAM





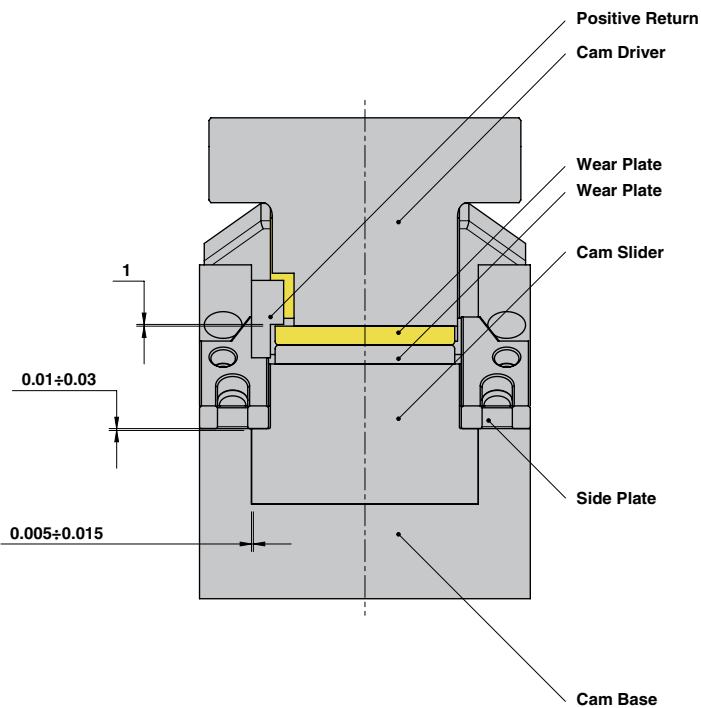
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

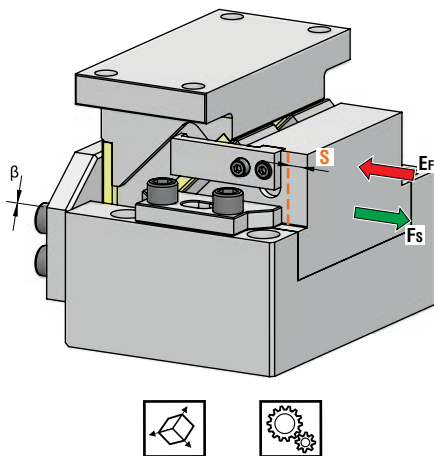


Cam Units DHC

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear plate	CK45	1
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Spring Guide Pin	CK45	2
11G	Gas Spring - Return Type G	-	2
11S	Spring - Return Type S	-	2
12	Cam Base Fixing Screws M12x60 DIN 912	-	4
13	Cam Driver Fixing Screws M12x45 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	B	S	Fs	Ef	
DHC150.00.40	0°	40	120	1,94	5,7
DHC150.00.60	0°	60	127	1,95	5,9
DHC150.05.45	5°	45	127	1,91	4,6
DHC150.05.70	5°	70	127	1,94	6,6
DHC150.10.45	10°	45	127	1,91	4,6
DHC150.10.70	10°	70	127	1,94	6,6
DHC150.15.45	15°	45	127	1,91	4,6
DHC150.15.70	15°	70	127	1,94	6,6
DHC150.20.45	20°	45	127	1,91	4,6
DHC150.20.70	20°	70	127	1,94	6,6

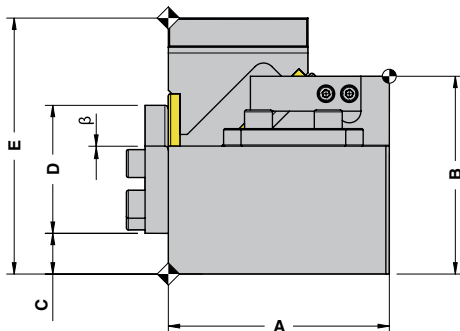
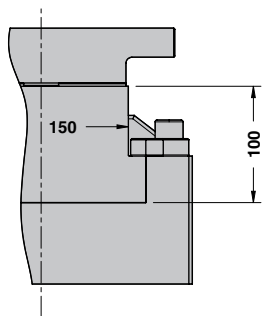
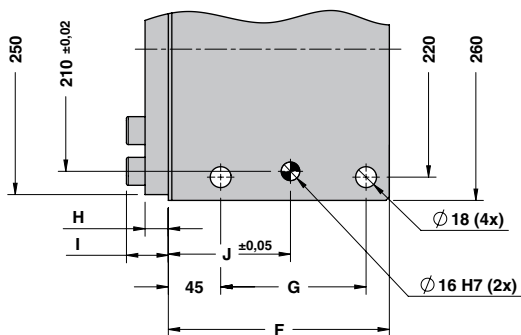
*Return Type: G = Gas Spring / S = Spring

		Art.	Work Angle = 0°	Stroke = 60	Return Type*
		DHC150	00	60	G

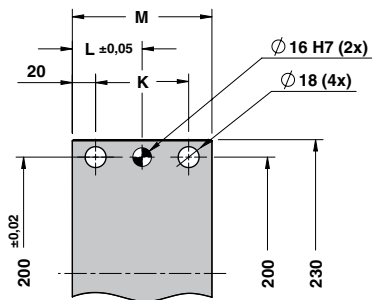
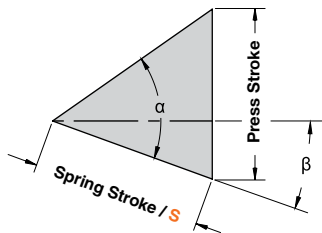
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)												
			B	S	A	B	C	D	E	F	G	H	I	J	K
DHC150.00.40	0°	40	190	170	45	65	220	190	125	19	35	105	80	60	120
DHC150.00.60	0°	60	210	170	45	65	220	200	135	19	35	110	100	70	140
DHC150.05.45	5°	45	193,01	158,50	30	125	220	190	125	20	36	105	70	55	110
DHC150.05.70	5°	70	217,92	166,32	40	125	220	200	135	20	36	120	90	65	130
DHC150.10.45	10°	45	199,55	151,36	40	125	220	190	125	20	36	105	70	55	110
DHC150.10.70	10°	70	224,17	152,02	40	125	220	200	135	20	36	120	90	65	130
DHC150.15.45	15°	45	204,58	143,71	40	125	220	190	125	20	36	105	80	60	120
DHC150.15.70	15°	70	228,73	152,24	55	125	230	200	135	20	36	120	100	70	140
DHC150.20.45	20°	45	208,05	135,70	40	125	220	190	125	20	36	105	80	60	120
DHC150.20.70	20°	70	231,54	137,15	55	125	230	200	135	20	36	120	100	70	140

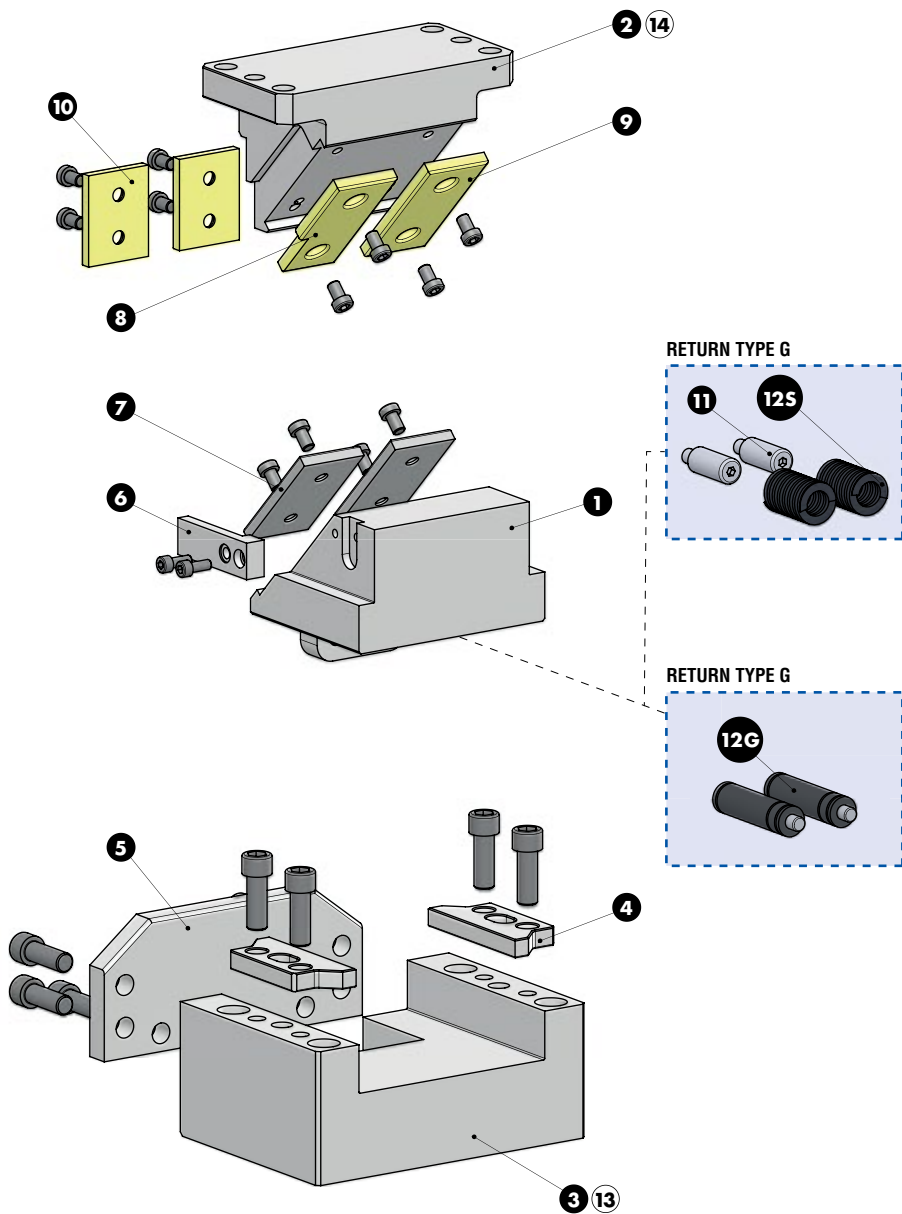


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

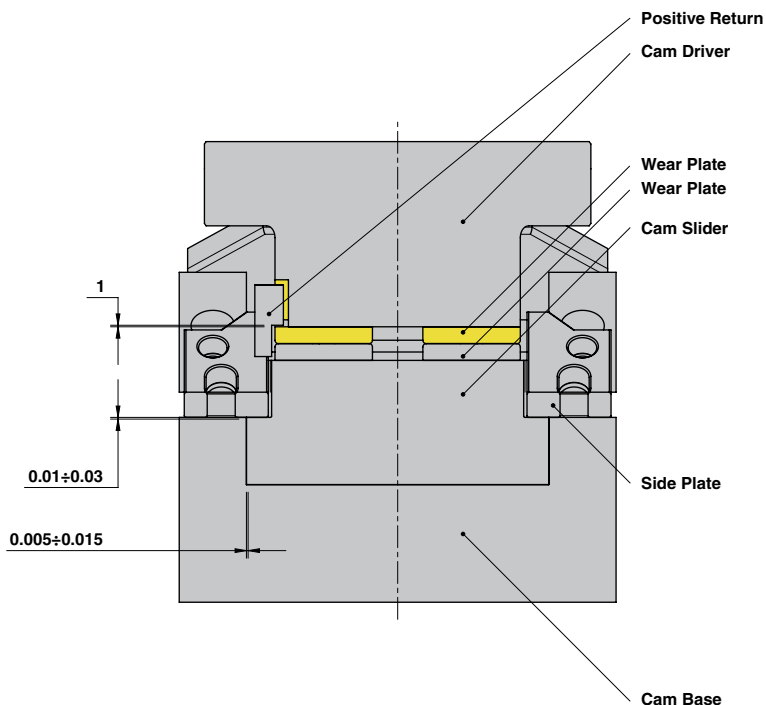






DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

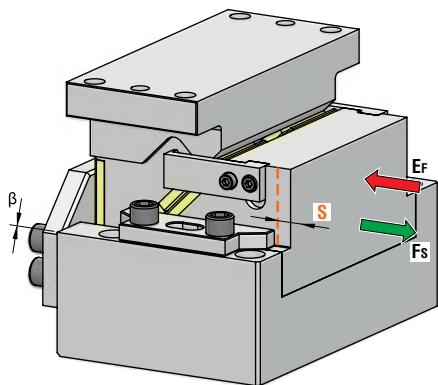


Cam Units DHC

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear plate	CK45	1
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Wear plate	CuZn25Al5 + Graphite - HB > 190	2
11	Spring Guide Pin	CK45	2
12G	Gas Spring - Return Type G	-	2
12S	Spring - Return Type S	-	2
13	Cam Base Fixing Screws M16x80 DIN 912	-	4
14	Cam Driver Fixing Screws M16x55 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
DHC200.00.40	0°	40	176	2,91	8,6
DHC200.00.60	0°	60	176	2,93	10,1

*Return Type: G = Gas Spring / S = Spring

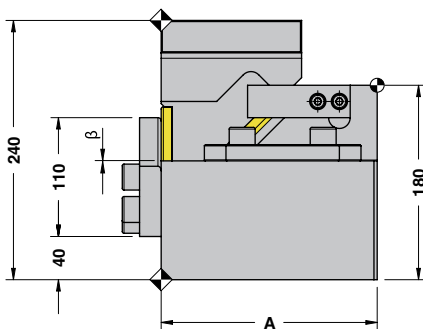
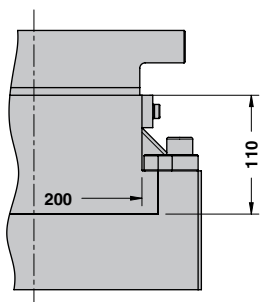
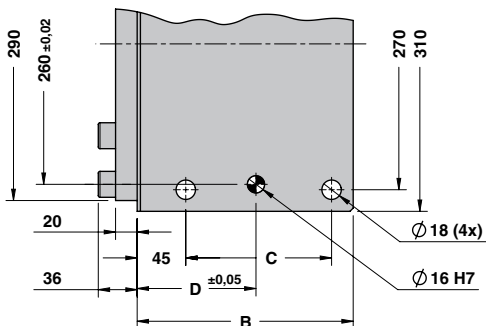


Art.	Work Angle = 0°	Stroke = 60	Return Type*
DHC200	00	60	G

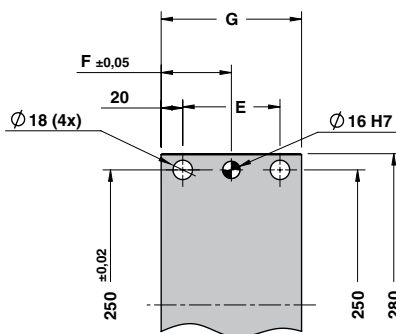
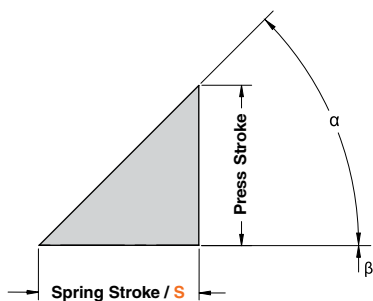
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)						
			β	S	A	B	C	D	E
DHC200.00.40	0°	40	200	200	135	110	90	65	130
DHC200.00.60	0°	60	220	210	145	120	110	75	150

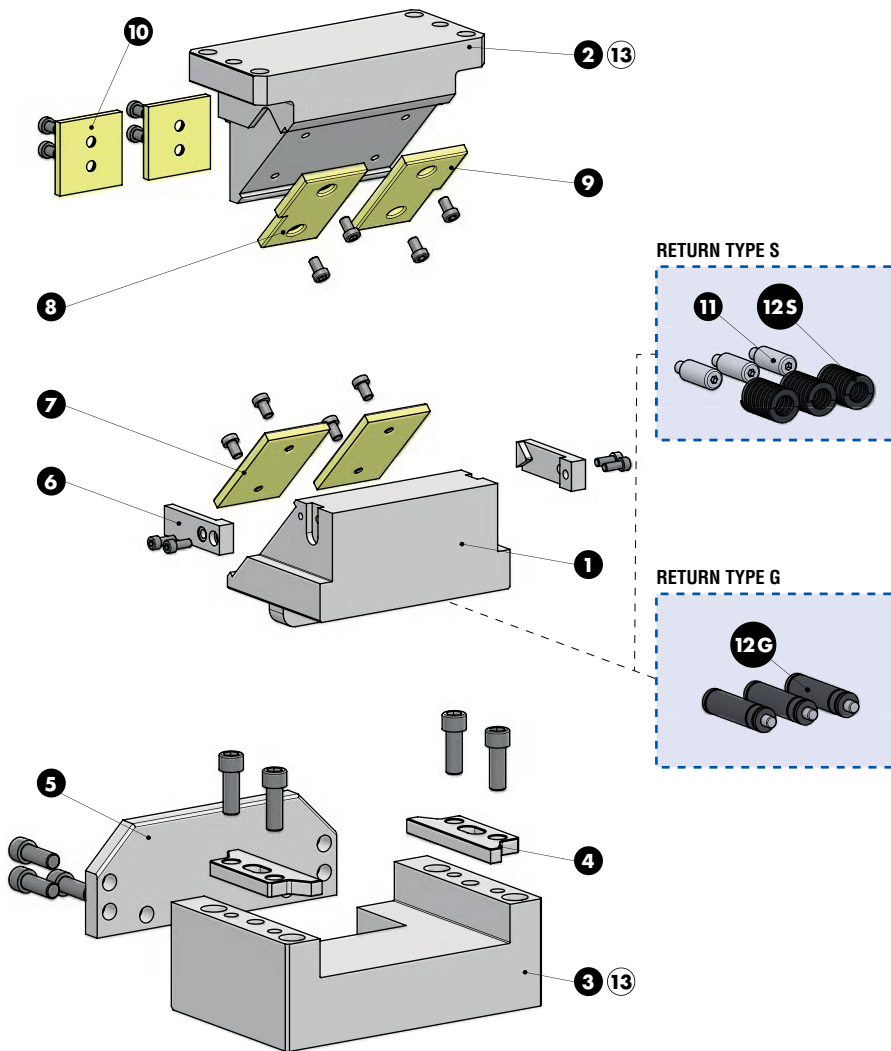


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

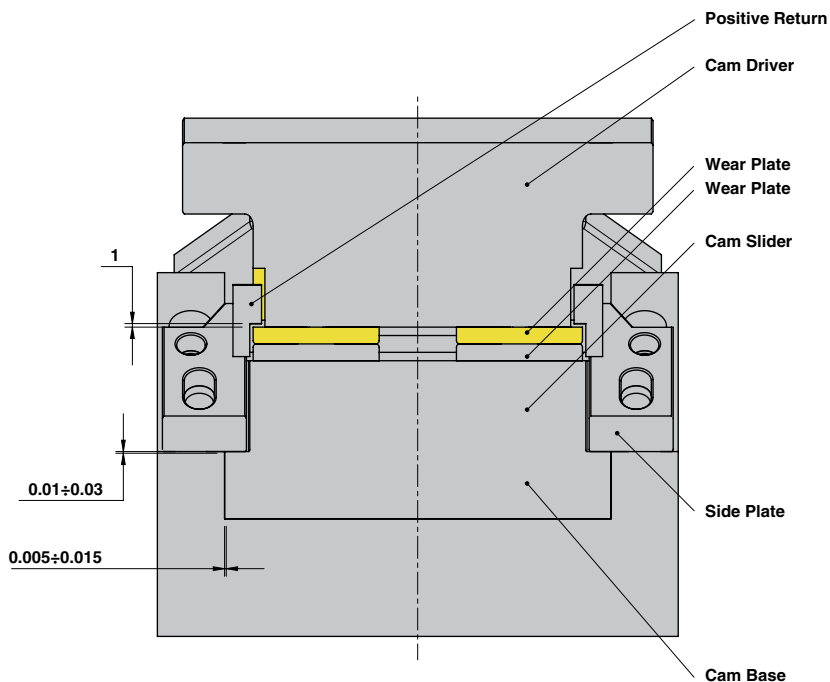






DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

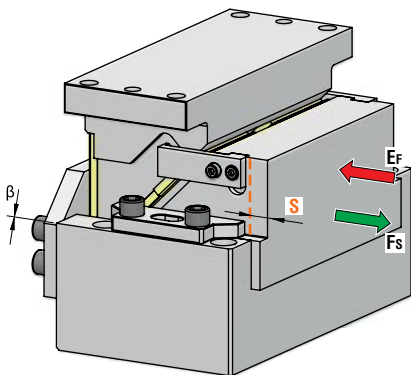
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	2
7	Wear plate	CK45	2
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Wear plate	CuZn25Al5 + Graphite - HB > 190	2
11	Spring Guide Pin	CK45	3
12G	Gas Spring - Return Type G	-	3
12S	Spring - Return Type S	-	3
13	Cam Base Fixing Screws M16x80 DIN 912	-	4
14	Cam Driver Fixing Screws M16x60 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				EF	
	B	S	Fs	Spring	Gas Spring
DHC250.00.40	0°	40	232	3,80	8,6
DHC250.00.60	0°	60	232	3,83	9,4

*Return Type: G = Gas Spring / S = Spring

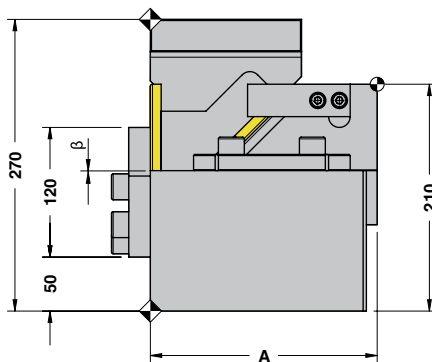
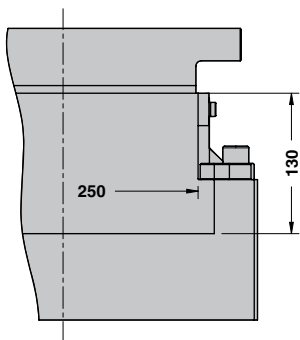
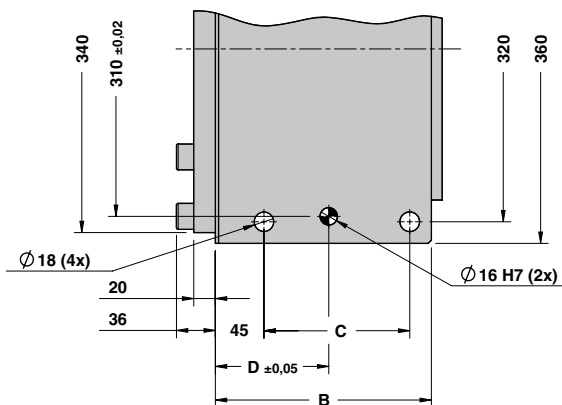


Art.	Work Angle = 0°	Stroke = 60	Return Type*
DHC250	00	60	G

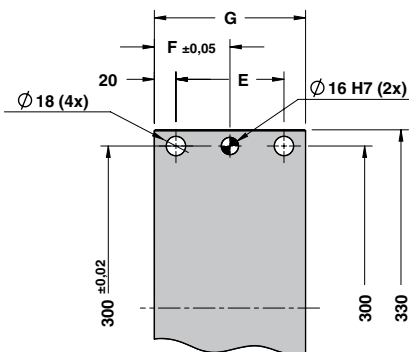
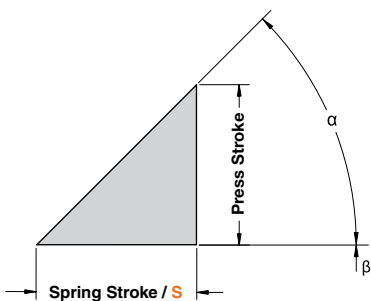
OMCR CODE	Work Angle	Stroke	Overall Dimensions (mm)						
			B	S	A	B	C	D	E
DHC250.00.40	0°	40	210	200	135	105	100	70	140
DHC250.00.60	0°	60	230	220	155	125	120	80	160



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

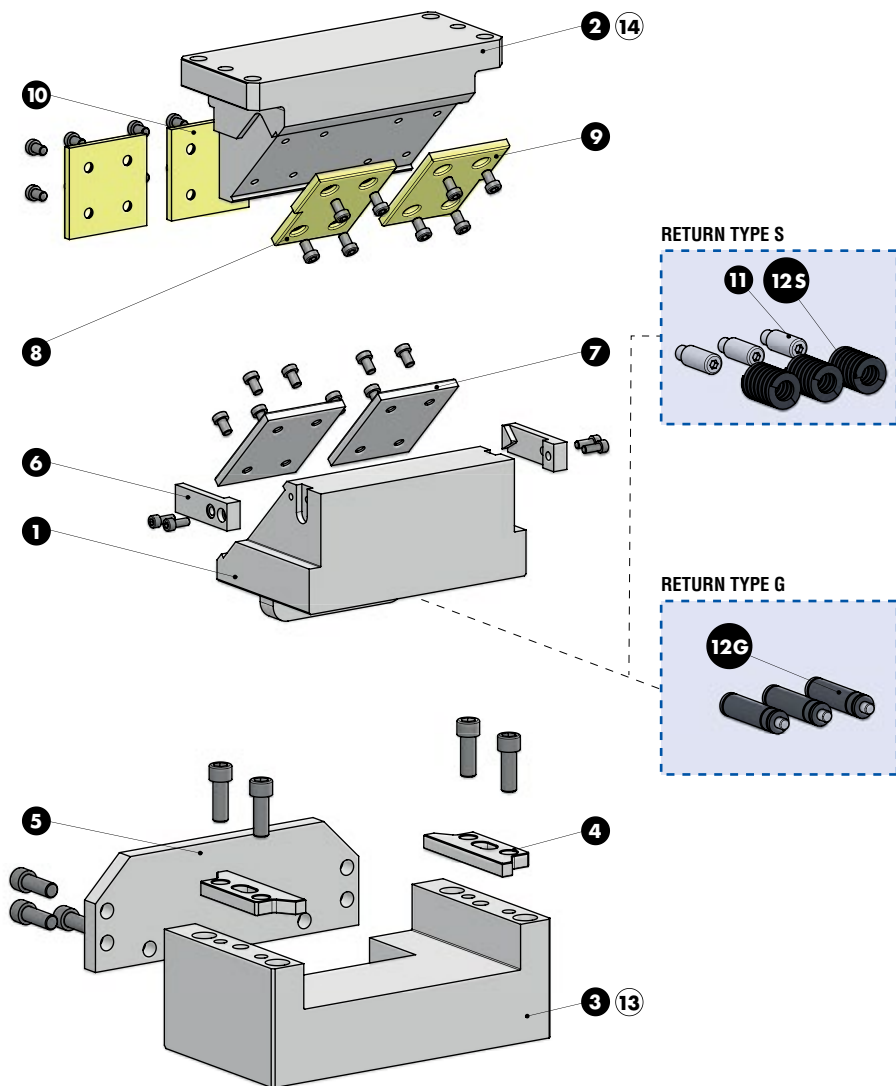


CAM DIAGRAM





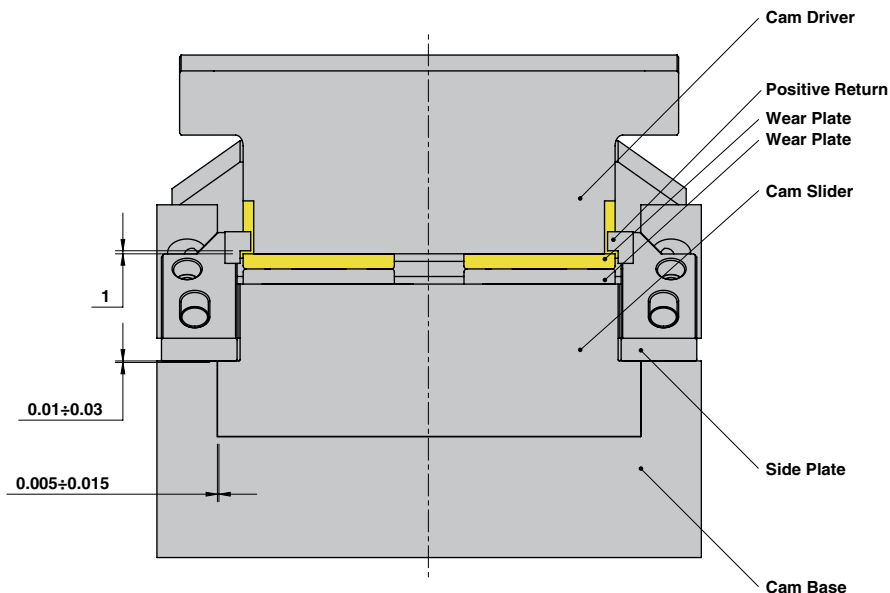
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

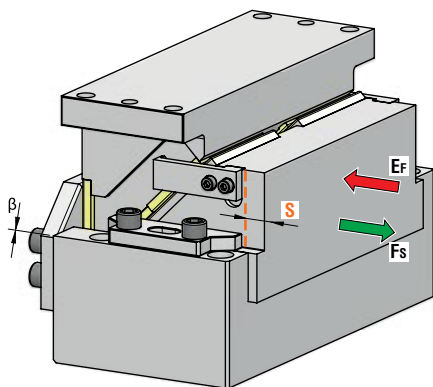
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	2
7	Wear plate	CK45	2
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Wear plate	CuZn25Al5 + Graphite - HB > 190	2
11	Spring Guide Pin	CK45	3
12G	Gas Spring - Return Type G	-	3
12S	Spring - Return Type S	-	3
13	Cam Base Fixing Screws M16x90 DIN 912	-	4
14	Cam Driver Fixing Screws M16x60 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Spring	Gas Spring
	β	S	F _s	E _f	
DHC300.00.40	0°	40	272	3,80	8,6
DHC300.00.60	0°	60	272	3,83	9,4

*Return Type: G = Gas Spring / S = Spring

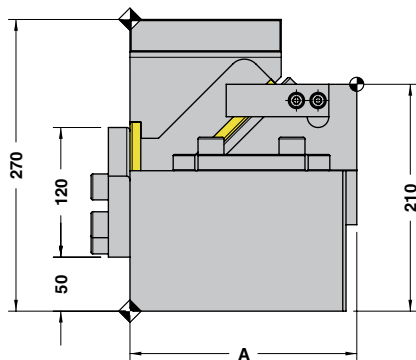
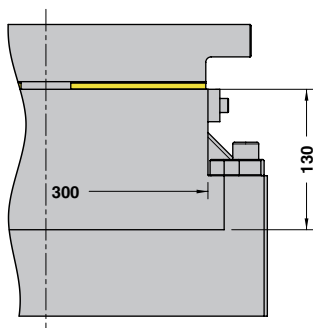
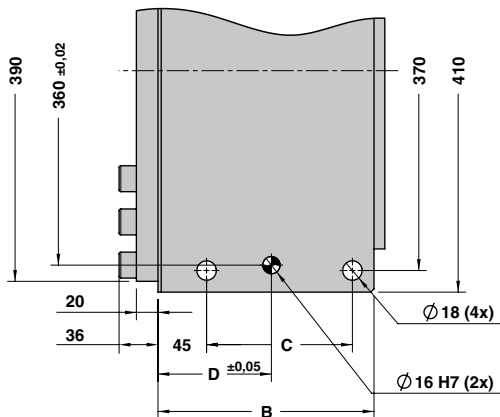


Art.	Work Angle = 0°	Stroke = 60	Return Type*
DHC300	00	60	G

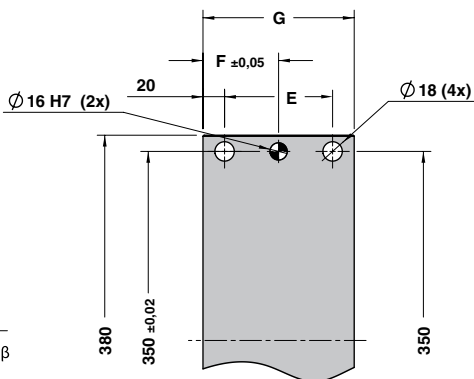
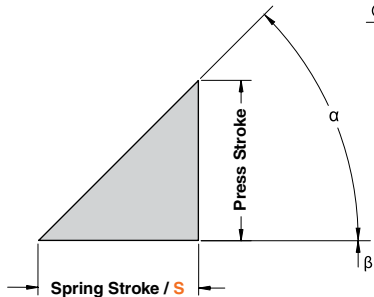
OMCR CODE	Work Angle	Stroke	Overall Dimensions (mm)						
			β	S	A	B	C	D	E
DHC300.00.40	0°	40	210	200	135	105	100	70	140
DHC300.00.60	0°	60	230	220	155	125	120	80	160



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

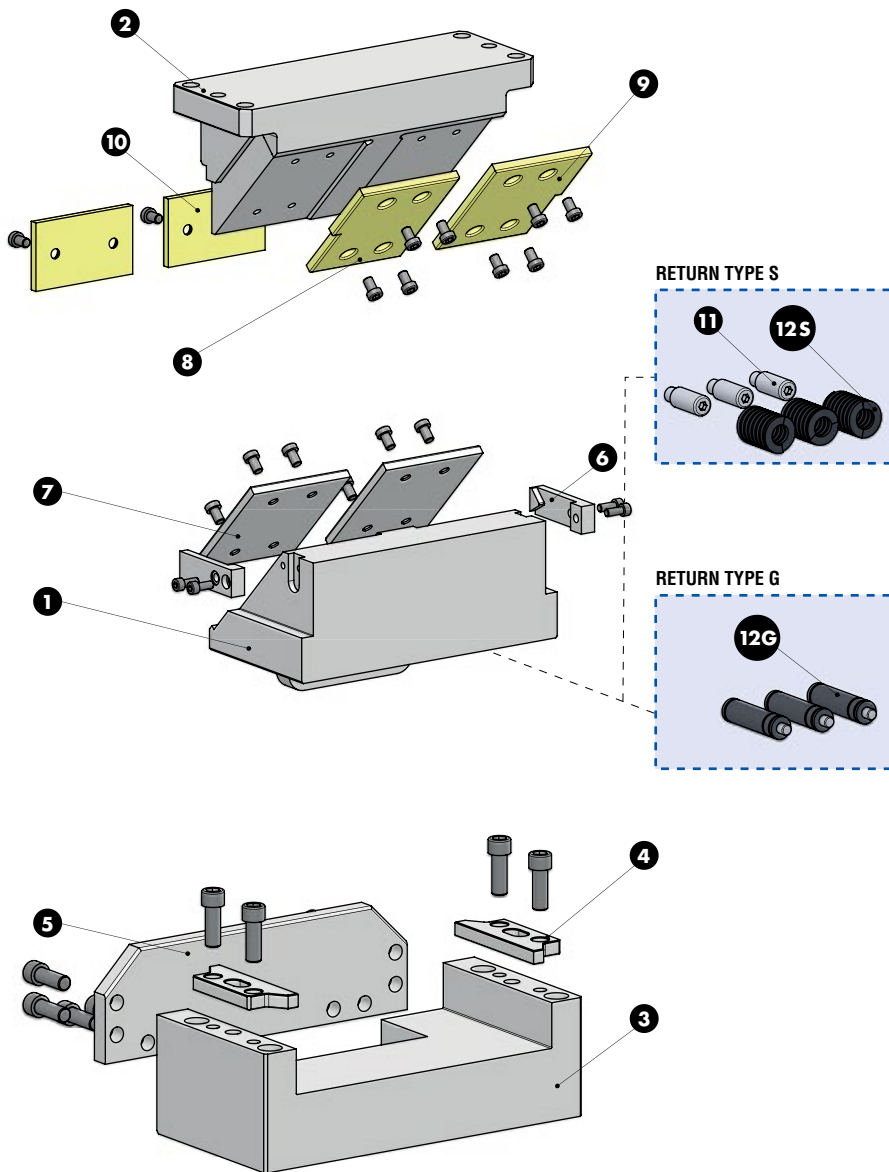


CAM DIAGRAM





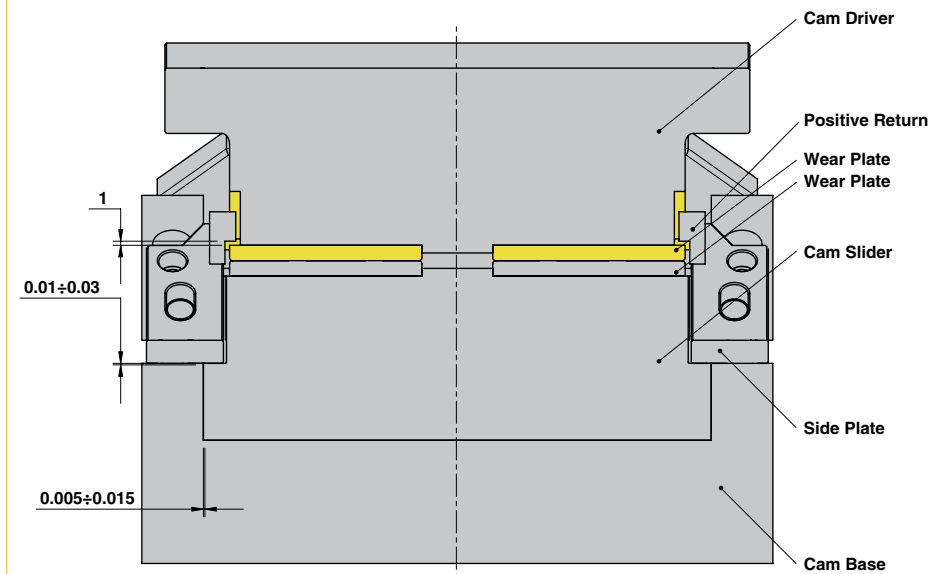
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

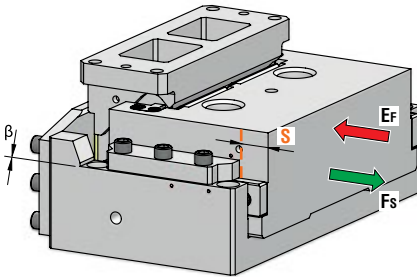


Cam Units DHC

Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	2
7	Wear plate	CK45	2
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Wear plate	CuZn25Al5 + Graphite - HB > 190	2
11	Spring Guide Pin	CK45	3
12G	Gas Spring - Return Type G	-	3
12S	Spring - Return Type S	-	3
13	Cam Base Fixing Screws M16x90 DIN 912	-	4
14	Cam Driver Fixing Screws M16x60 DIN 912	-	4



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



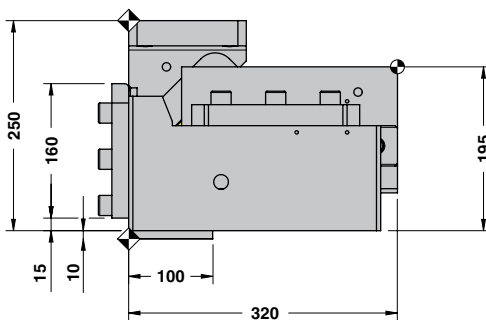
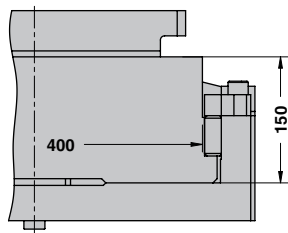
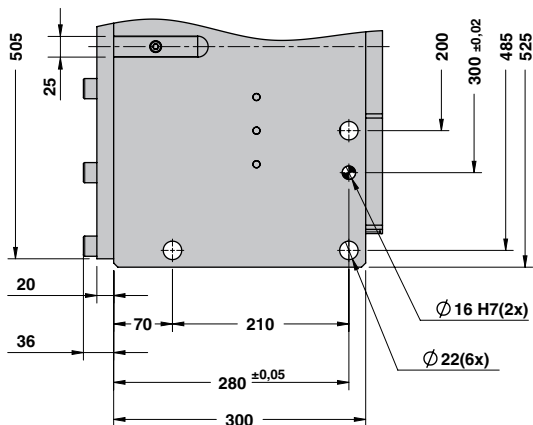
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	Fs	Ef
DHC400.00.60	0°	60	480	9,54



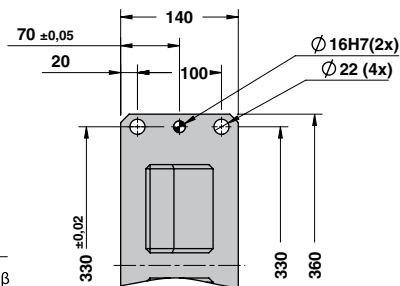
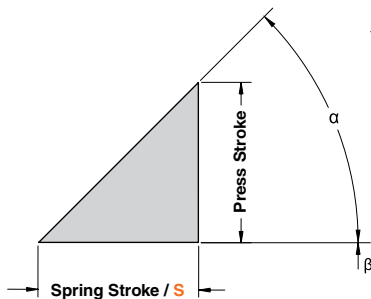
Art.	Work Angle = 0°	Stroke = 60
DHC400	00	60



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

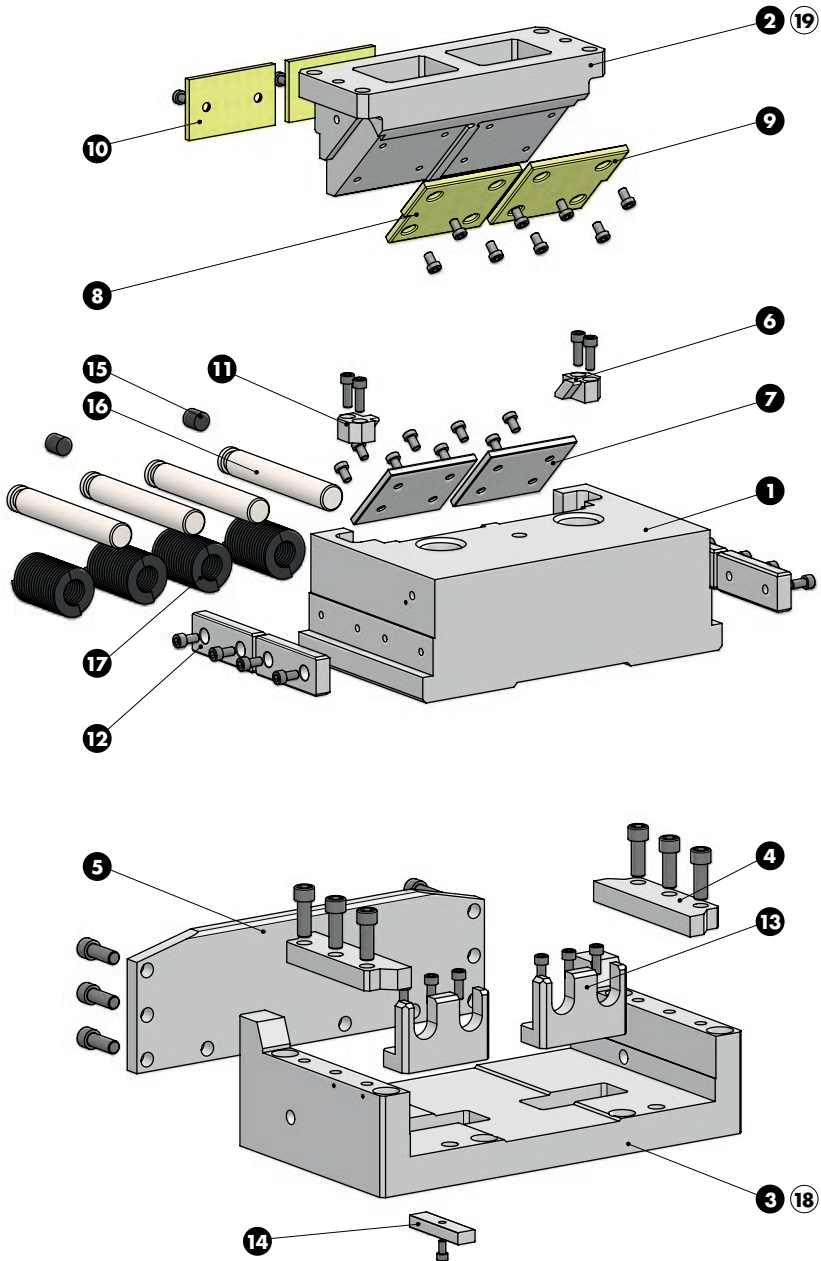


CAM DIAGRAM





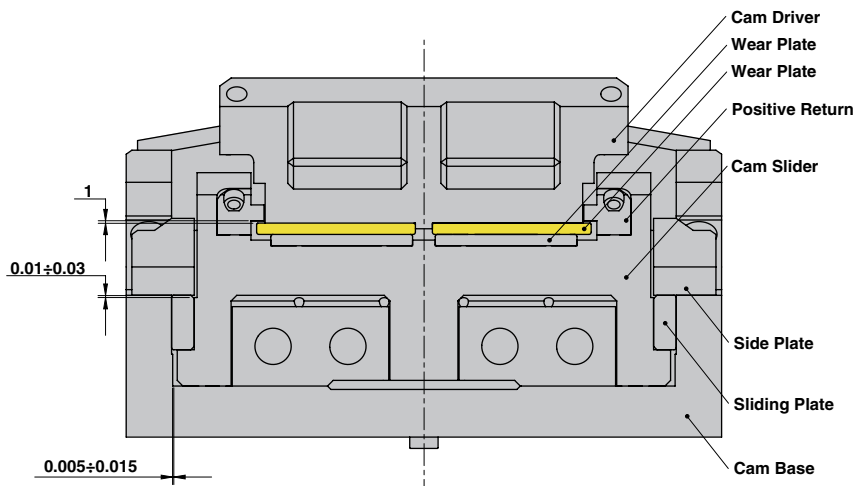
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

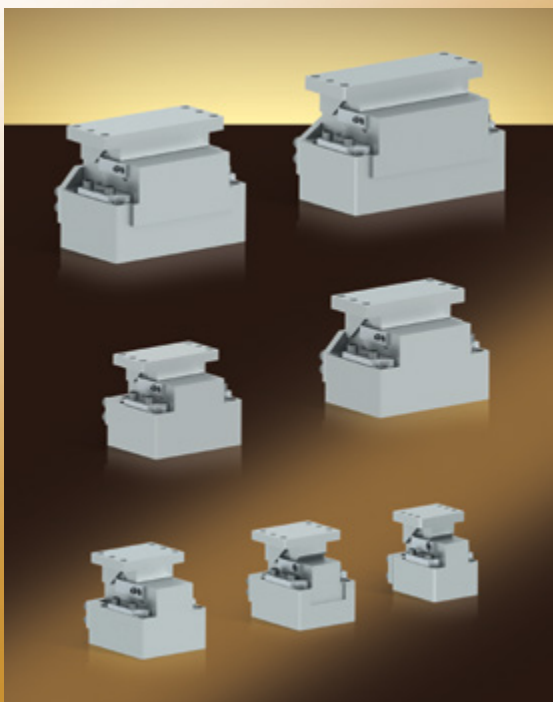


Particular number	Description	Material	Quantity
1	Cam Slider	GGG-50 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	GG-25 + Graphite	2
5	Stopper Plate	CK45	1
6	Positive Return R	CK45	1
7	Wear plate	CK45	2
8	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear plate	CuZn25Al5 + Graphite - HB > 190	1
10	Wear plate	CuZn25Al5 + Graphite - HB > 190	2
11	Positive Return L	CK45	1
12	Slide Plate	GG-25 + Graphite	4
13	Spring Stopper	CK45	2
14	Key	CK45	1
15	Elastomer Cap	Elastomer 92SH	2
16	Spring Guide Pin	CK45	4
17	Spring	-	4
18	Cam Base Fixing Screws M20x90 DIN 912	-	4
19	Cam Driver Fixing Screws M16x55 DIN 912	-	4



OMCR®

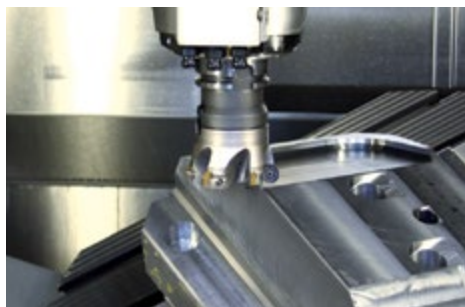
STANDARD DIE COMPONENTS



CAM UNITS DLC-DLCA
SCHIEBER DLC-DLCA
CAMME DLC-DLCA

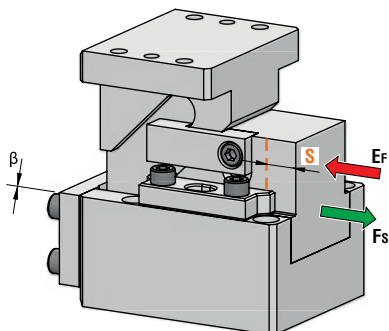
OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	B				F _s	F _f
DLC-DLCA052	0°	52	140	52x65	30	0,62÷0,65
DLC-DLCA065	0÷20°	65	160 (00.40÷05.45 / 10.45) 170 (05.70 / 10.70÷20.70)	65x70	39	0,78÷1,02
DLC-DLCA100	0÷20°	100	200	100x100	59÷79	1,17÷1,36
DLC-DLCA150	0÷20°	150	220 (00.40÷15.45 / 20.45) 230 (15.70 / 20.70)	150x100	89÷98	1,91÷1,96
DLC-DLCA200	0°	200	240	200x110	126	2,91÷2,93
DLC-DLCA250	0°	250	270	250x130	158	3,8÷3,83
DLC-DLCA300	0°	300	270	300x130	189	3,8÷3,83

Cam Units
DLC/DLCA



Production experience

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



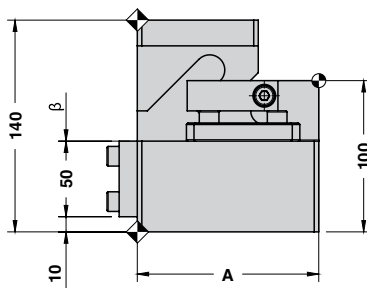
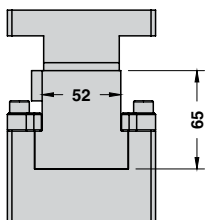
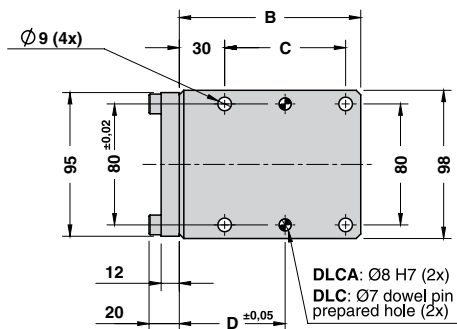
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	Fs	EF
DLC-DLCA052.00.25	0°	25	30	0,62
DLC-DLCA052.00.40	0°	40	30	0,63
DLC-DLCA052.00.60	0°	60	30	0,65



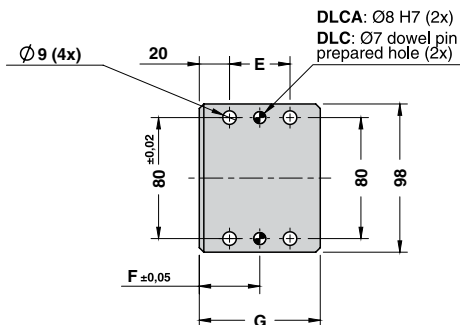
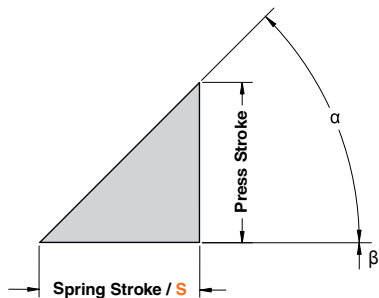
Art.	Work Angle = 0°	Stroke = 40
DLC052	00	40

OMCR CODE		Work Angle	Stroke (mm)	Overall Dimensions (mm)						
				B	S	A	B	C	D	E
DLC052.00.25	DLCA052.00.25	0°	25	120	120	80	70	40	40	80
DLC052.00.40	DLCA052.00.40	0°	40	135	135	95	80	50	45	90
DLC052.00.60	DLCA052.00.60	0°	60	180	180	140	55	70	55	110

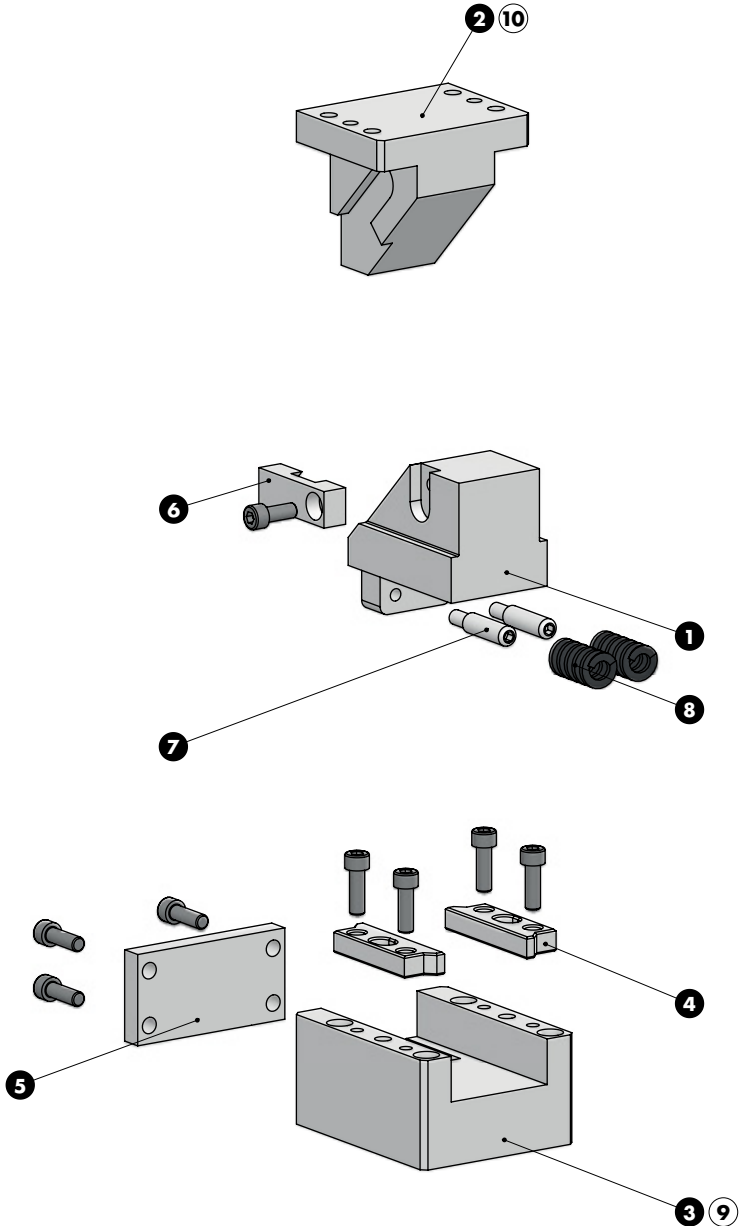
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

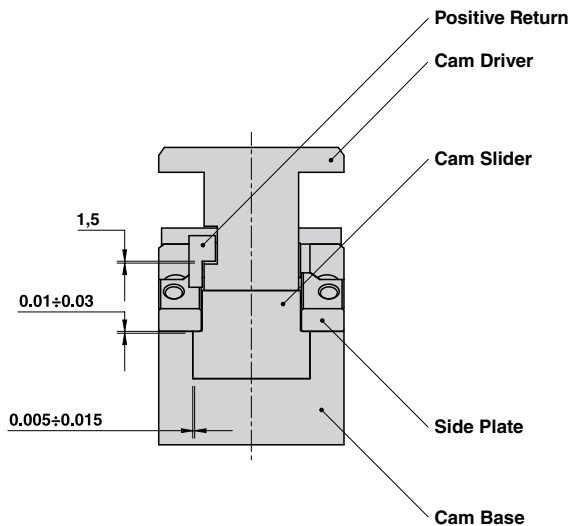


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

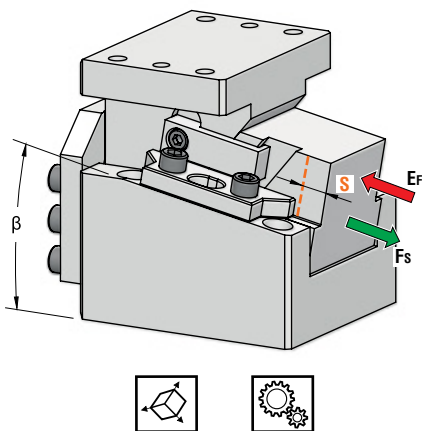
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	1
7	Spring Guide Pin	CK45	2
8	Spring	-	2
9	Cam Base Fixing Screws M8x50 DIN 912	-	4
10	Cam Driver Fixing Screws M8x30 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	EF
DLC-DLCA065.00.40	0°	40	39	0,79
DLC-DLCA065.00.60	0°	60	39	0,80
DLC-DLCA065.05.45	5°	45	39	0,78
DLC-DLCA065.05.70	5°	70	39	1,02
DLC-DLCA065.10.45	10°	45	39	0,78
DLC-DLCA065.10.70	10°	70	39	1,02
DLC-DLCA065.15.45	15°	45	39	0,78
DLC-DLCA065.15.70	15°	70	39	1,02
DLC-DLCA065.20.45	20°	45	39	0,78
DLC-DLCA065.20.70	20°	70	39	1,02

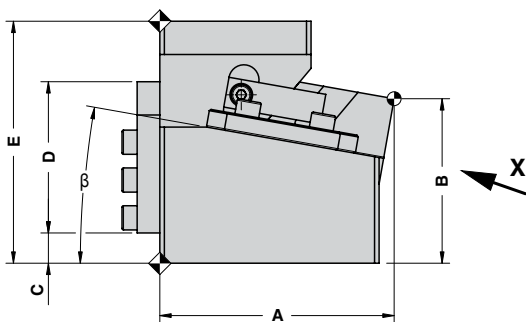
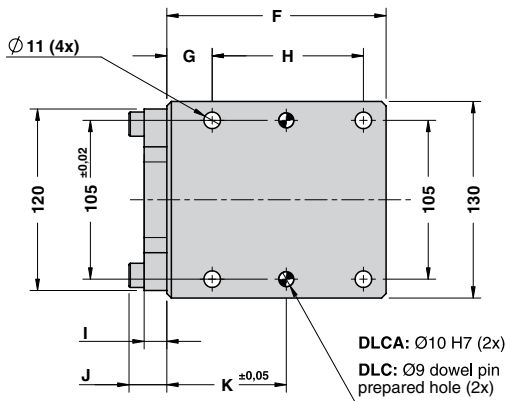
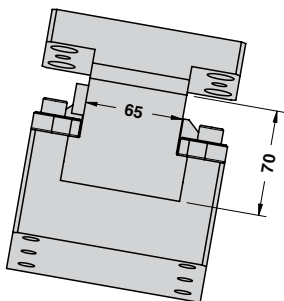


Art.	Work Angle = 0°	Stroke = 60
DLC065	00	60

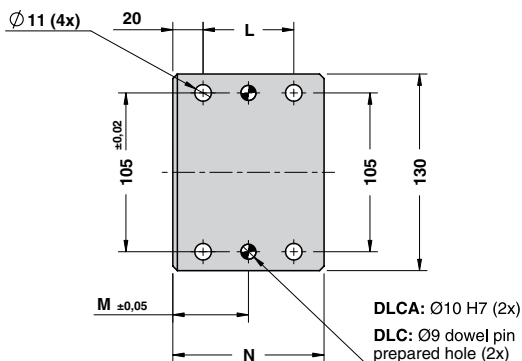
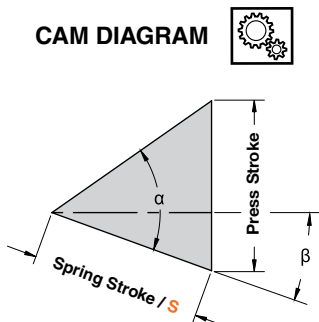
OMCR CODE		Work Angle	Stroke (mm)	Overall Dimensions (mm)															
				β	S	A	B	C	D	E	F	G	H	I	J	K	L	M	N
DLC065.00.40	DLCA065.00.40	0°	40	140	115	25	50	160	145	30	100	12	27	80	60	50	100		
DLC065.00.60	DLCA065.00.60	0°	60	190	115	25	50	160	180	40	125	12	22	105	70	55	110		
DLC065.05.45	DLCA065.05.45	5°	45	150,55	112,10	12,5	100	160	145	30	100	15	25	80	60	50	100		
DLC065.05.70	DLCA065.05.70	5°	70	195,38	123,17	25	100	170	180	40	125	15	25	65	60	50	100		
DLC065.10.45	DLCA065.10.45	10°	45	154,95	108,76	20	100	160	145	30	100	15	25	79	60	50	100		
DLC065.10.70	DLCA065.10.70	10°	70	199,27	110,94	25	100	170	180	40	125	15	25	65	60	50	100		
DLC065.15.45	DLCA065.15.45	15°	45	158,18	105,09	25	100	170	145	30	100	15	25	80	60	50	100		
DLC065.15.70	DLCA065.15.70	15°	70	201,64	103,44	40	100	170	180	40	125	15	25	65	70	55	110		
DLC065.20.45	DLCA065.20.45	20°	45	160,20	101,19	30	100	170	145	30	100	15	25	80	60	50	100		
DLC065.20.70	DLCA065.20.70	20°	70	202,48	95,79	40	100	170	180	40	125	15	25	65	70	55	110		

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

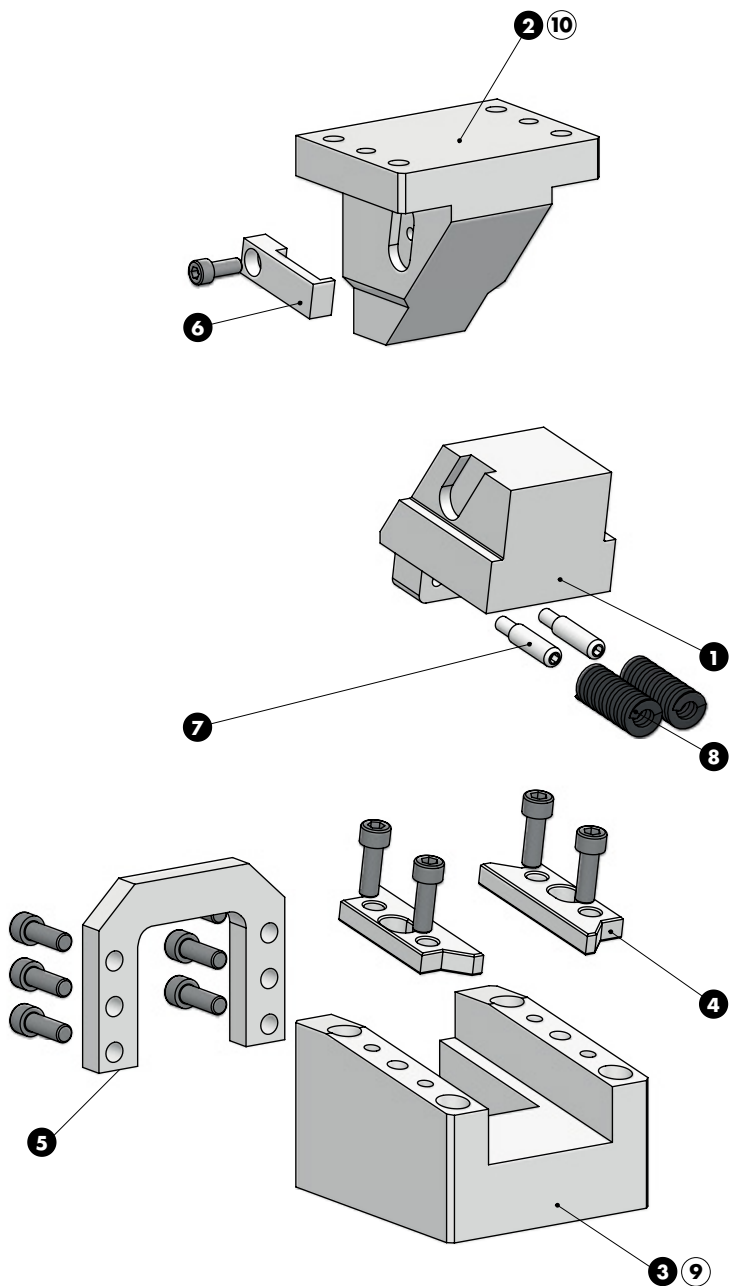
X VIEW



CAM DIAGRAM

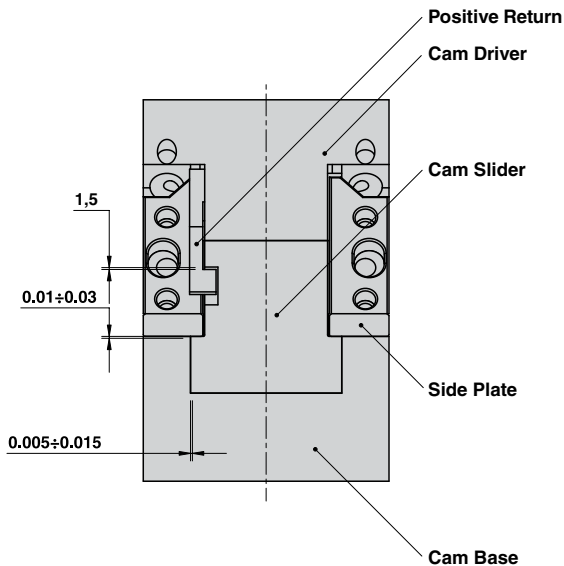


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

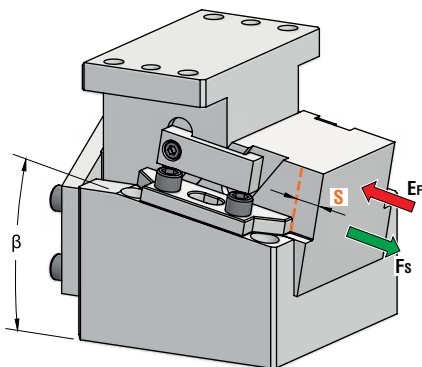
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	1
7	Spring Guide Pin	CK45	2
8	Spring	-	2
9	Cam Base Fixing Screws M10x50 DIN 912	-	4
10	Cam Driver Fixing Screws M10x40 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
DLC-DLCA100.00.40	0°	40	59	1,19
DLC-DLCA100.00.60	0°	60	59	1,20
DLC-DLCA100.00.80	0°	80	59	1,36
DLC-DLCA100.05.45	5°	45	79	1,17
DLC-DLCA100.05.70	5°	70	79	1,20
DLC-DLCA100.10.45	10°	45	79	1,17
DLC-DLCA100.10.70	10°	70	79	1,20
DLC-DLCA100.15.45	15°	45	79	1,17
DLC-DLCA100.15.70	15°	70	79	1,20
DLC-DLCA100.20.45	20°	45	79	1,17
DLC-DLCA100.20.70	20°	70	79	1,20

OPTION CODE

N	∅ 12 H7 DLCA only
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OPTION CODE (DLCA only)

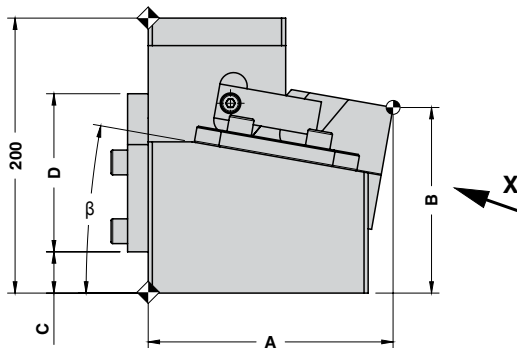
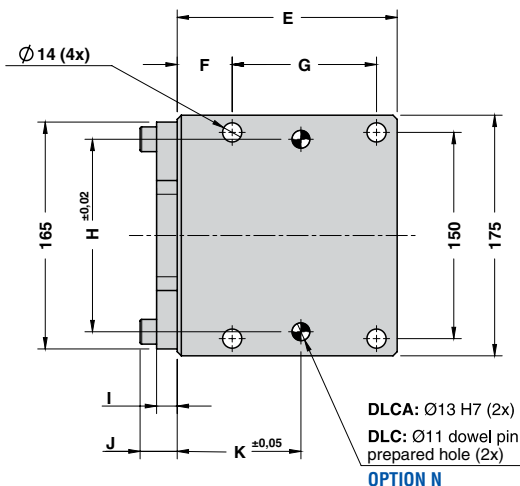
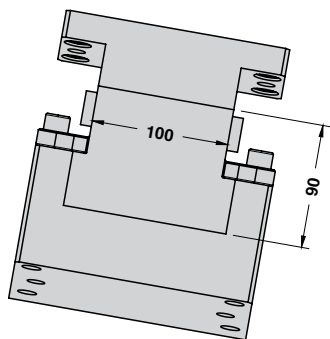


Art.	Work Angle = 0°	Stroke = 60	OPTION CODE (DLCA only)
DLCA100	00	60	N12

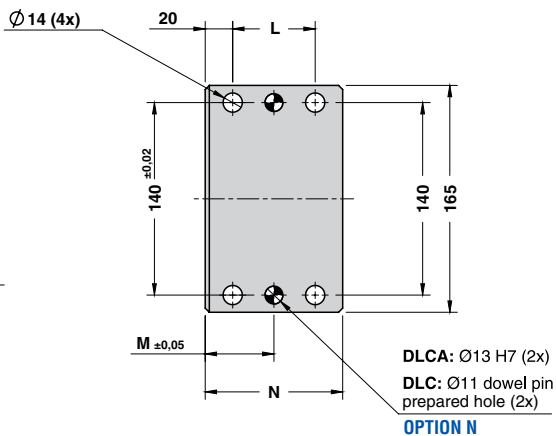
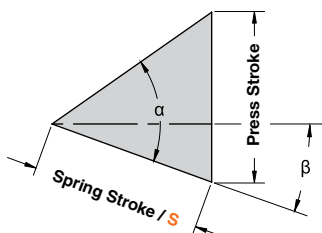
OMCR CODE		Work Angle	Stroke (mm)	Overall Dimensions (mm)													
				β	S	A	B	C	D	E	F	G	H	I	J	K	L
DLC100.00.40	DLCA100.00.40	0°	40	190	150	30	60	190	45	130	140	16	28	105	80	60	120
DLC100.00.60	DLCA100.00.60	0°	60	210	150	30	60	190	45	130	140	16	28	105	100	70	140
DLC100.00.80	DLCA100.00.80	0°	80	250	150	10	115	220	45	160	140	15	27	135	110	75	150
DLC100.05.45	DLCA100.05.45	5°	45	172,22	145,28	27,5	115	160	40	105	140	15	27	90	60	50	100
DLC100.05.70	DLCA100.05.70	5°	70	207,08	147,23	30	115	190	45	130	150	15	27	70	80	60	120
DLC100.10.45	DLCA100.10.45	10°	45	178,12	134,98	30	115	160	40	105	140	15	27	90	60	50	100
DLC100.10.70	DLCA100.10.70	10°	70	212,59	133,90	30	115	190	45	130	150	15	27	70	80	60	120
DLC100.15.45	DLCA100.15.45	15°	45	182,67	129,23	32,5	115	160	40	105	140	15	27	90	70	55	110
DLC100.15.70	DLCA100.15.70	15°	70	216,48	130,17	35	115	190	45	130	150	15	27	70	90	65	130
DLC100.20.45	DLCA100.20.45	20°	45	185,83	118,14	35	115	160	40	105	140	15	27	90	70	55	110
DLC100.20.70	DLCA100.20.70	20°	70	218,72	121,17	45	115	190	45	130	150	15	27	70	90	65	130

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

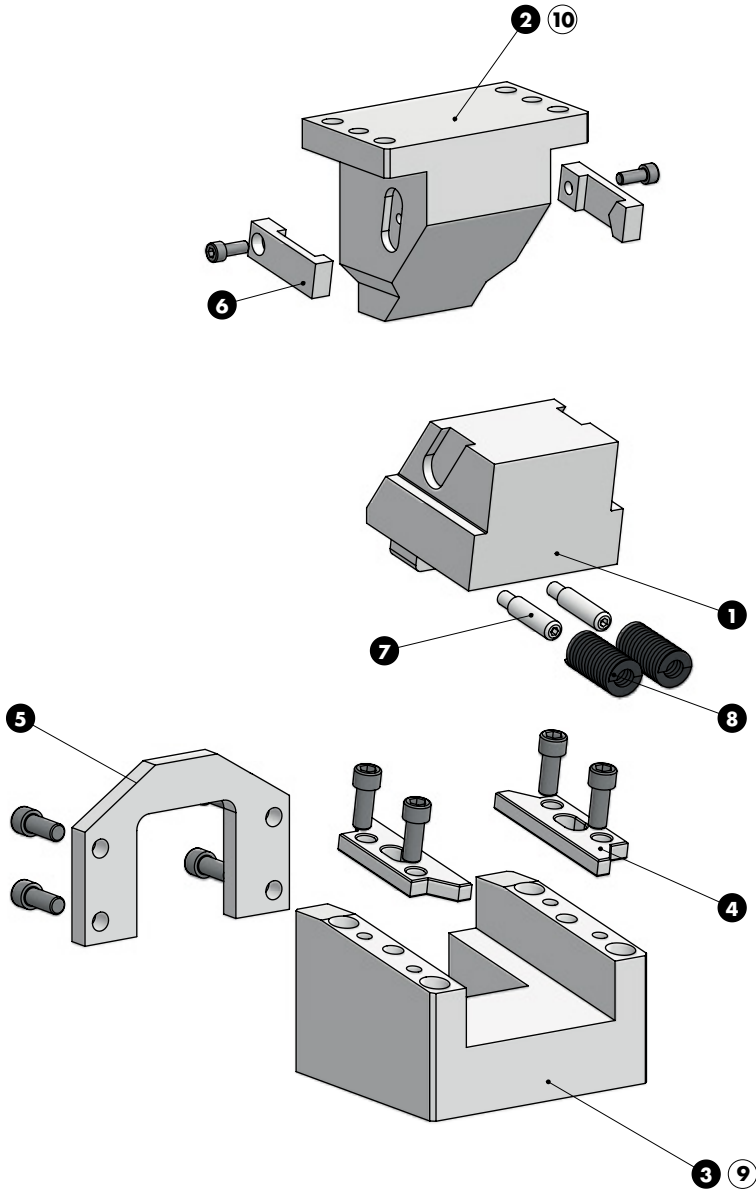
X VIEW



CAM DIAGRAM

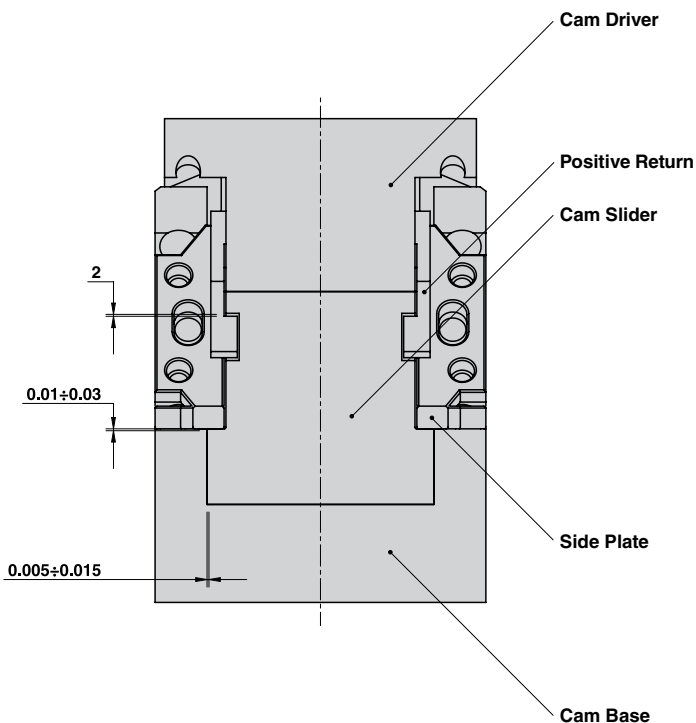


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

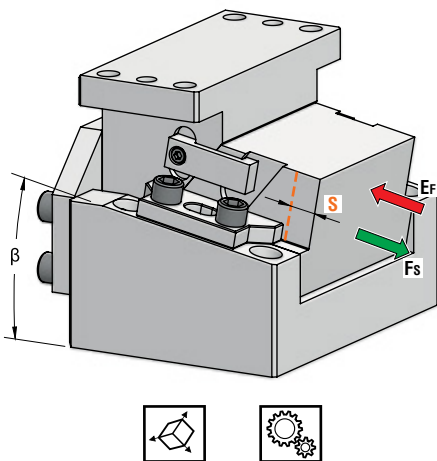
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	1
7	Spring Guide Pin	CK45	2
8	Spring	-	2
9	Cam Base Fixing Screws M12x60 DIN 912	-	4
10	Cam Driver Fixing Screws M12x45 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	Fs	Ef Spring
DLC-DLCA150.00.40	0°	40	89	1,94
DLC-DLCA150.00.60	0°	60	89	1,96
DLC-DLCA150.05.45	5°	45	98	1,91
DLC-DLCA150.05.70	5°	70	98	1,94
DLC-DLCA150.10.45	10°	45	98	1,91
DLC-DLCA150.10.70	10°	70	98	1,94
DLC-DLCA150.15.45	15°	45	98	1,91
DLC-DLCA150.15.70	15°	70	98	1,94
DLC-DLCA150.20.45	20°	45	98	1,91
DLC-DLCA150.20.70	20°	70	98	1,94

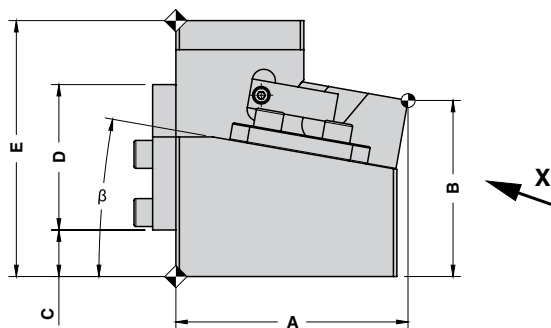
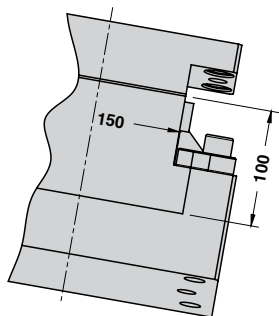
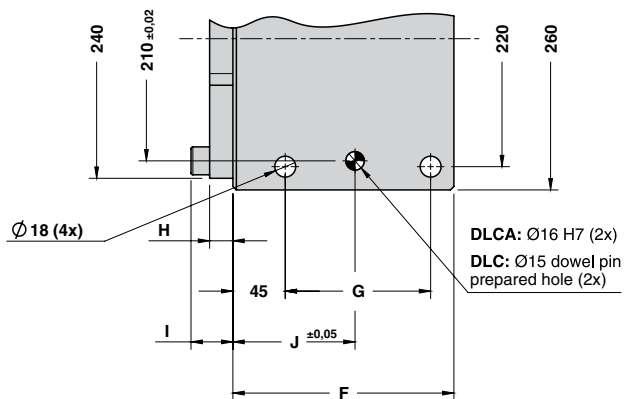


Art.	Work Angle = 0°	Stroke = 60
DLC150	00	60

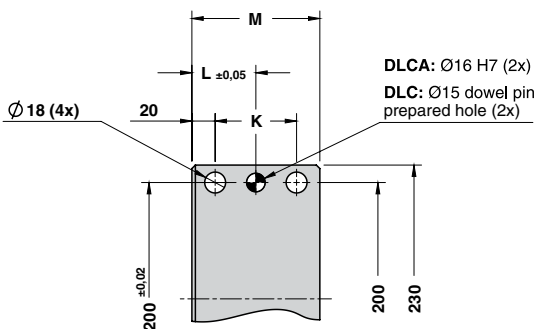
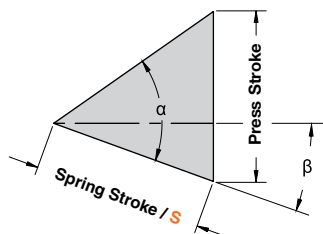
OMCR CODE		Work Angle	Stroke (mm)	Overall Dimensions (mm)												
				B	S	A	B	C	D	E	F	G	H	I	J	K
DLC150.00.40	DLCA150.00.40	0°	40	190	170	45	65	220	190	125	19	35	105	80	60	120
DLC150.00.60	DLCA150.00.60	0°	60	210	170	45	65	220	200	135	19	35	110	100	70	140
DLC150.05.45	DLCA150.05.45	5°	45	193,01	158,50	30	125	220	190	125	20	36	105	70	55	110
DLC150.05.70	DLCA150.05.70	5°	70	217,92	166,32	40	125	220	200	135	20	36	120	90	65	130
DLC150.10.45	DLCA150.10.45	10°	45	199,55	151,36	40	125	220	190	125	20	36	105	70	55	110
DLC150.10.70	DLCA150.10.70	10°	70	224,17	152,02	40	125	220	200	135	20	36	120	90	65	130
DLC150.15.45	DLCA150.15.45	15°	45	204,58	143,71	40	125	220	190	125	20	36	105	80	60	120
DLC150.15.70	DLCA150.15.70	15°	70	228,73	152,24	55	125	230	200	135	20	36	120	100	70	140
DLC150.20.45	DLCA150.20.45	20°	45	208,05	135,70	40	125	220	190	125	20	36	105	80	60	120
DLC150.20.70	DLCA150.20.70	20°	70	231,54	137,15	55	125	230	200	135	20	36	120	100	70	140

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

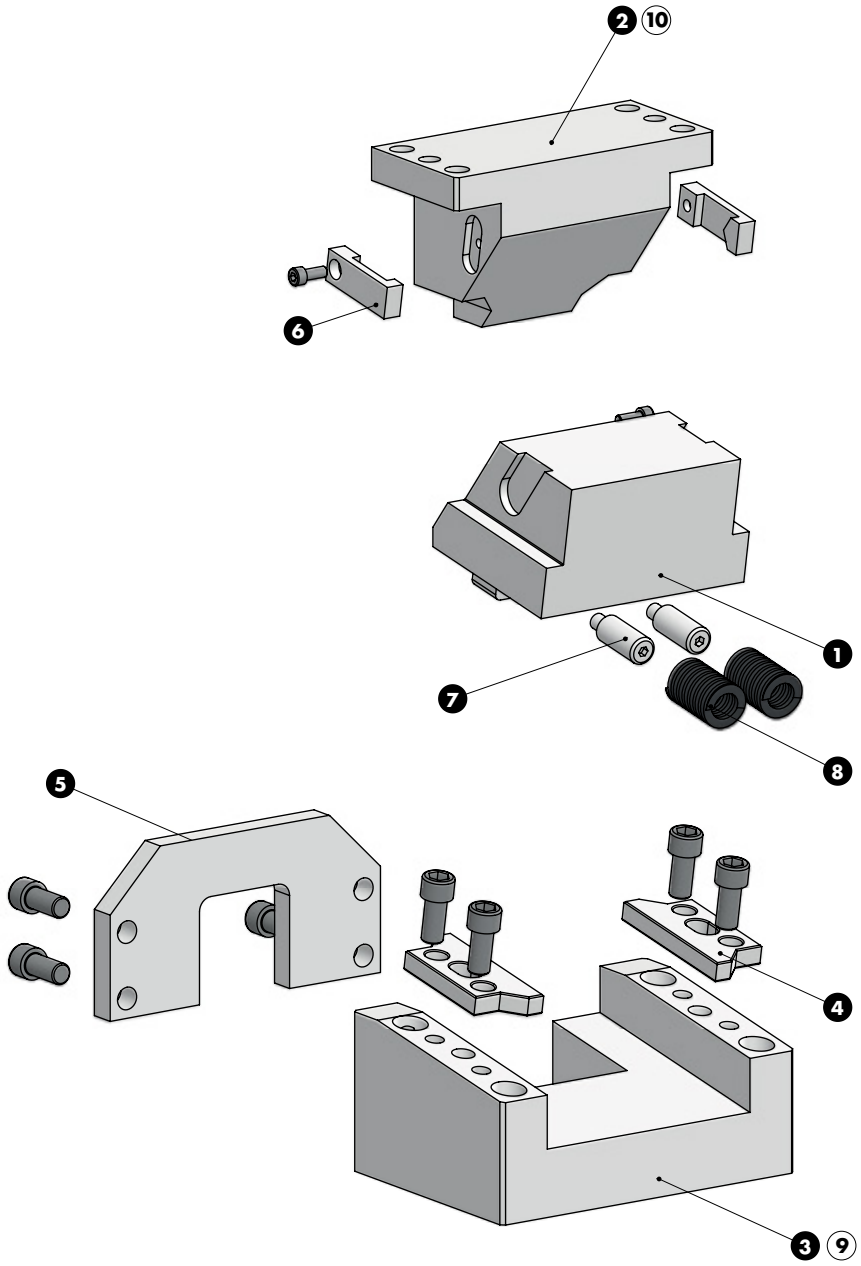
X VIEW



CAM DIAGRAM

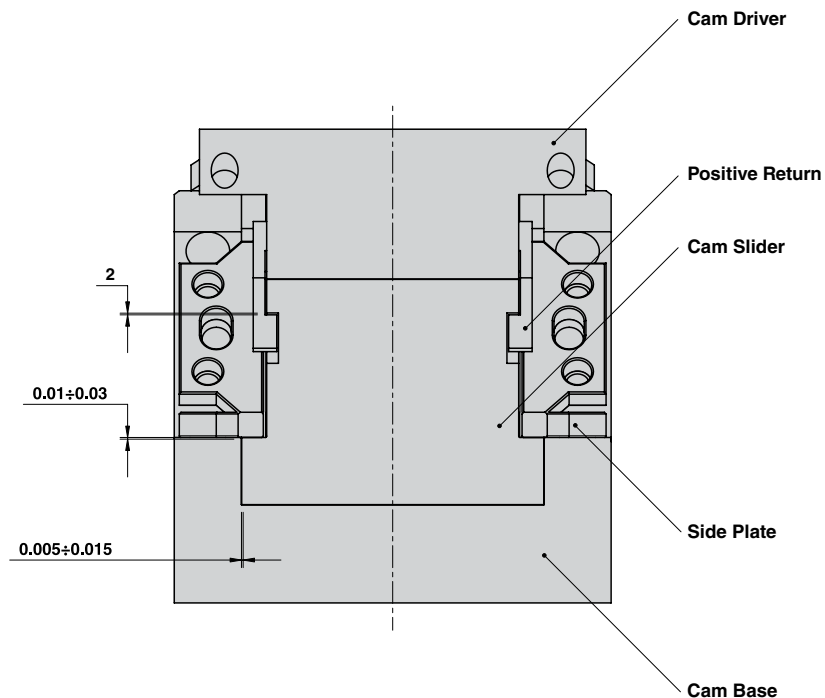


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

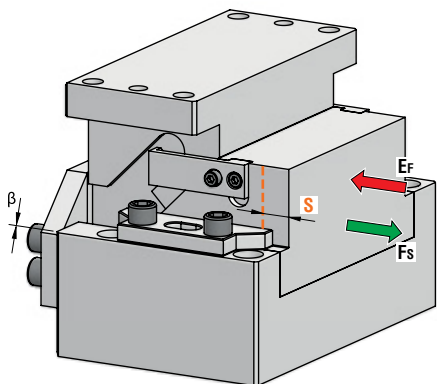
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	1
7	Spring Guide Pin	CK45	2
8	Spring	-	2
9	Cam Base Fixing Screws M16x80 DIN 912	-	4
10	Cam Driver Fixing Screws M16x55 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



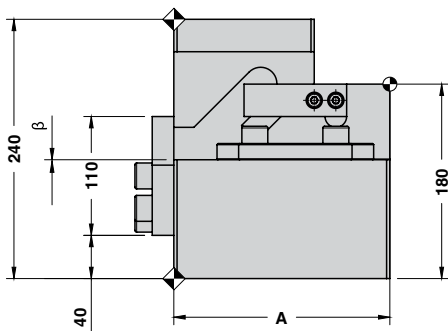
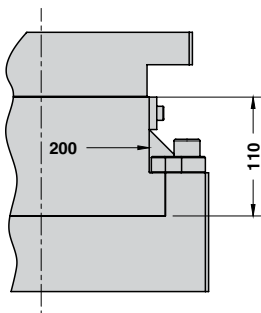
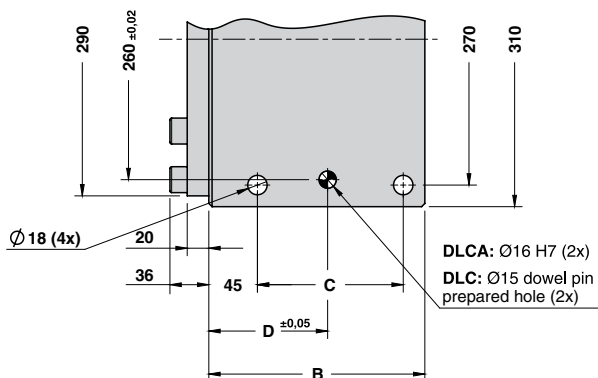
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f
DLC-DLCA200.00.40	0°	40	126	2,91
DLC-DLCA200.00.60	0°	60	126	2,93



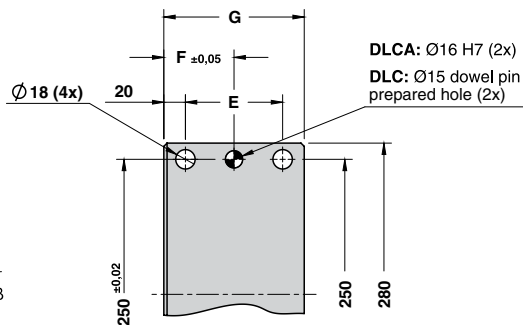
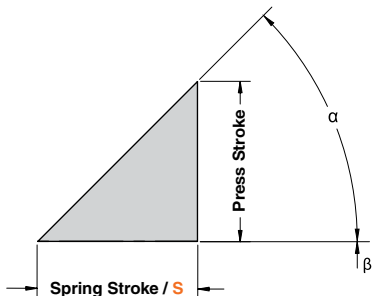
Art.	Work Angle = 0°	Stroke = 60
DLC200	00	60

OMCR CODE		Work Angle	Stroke (mm)	Overall Dimensions (mm)						
				β	S	A	B	C	D	E
DLC200.00.40	DLCA200.00.40	0°	40	200	200	135	110	90	65	130
DLC200.00.60	DLCA200.00.60	0°	60	220	210	145	120	110	75	150

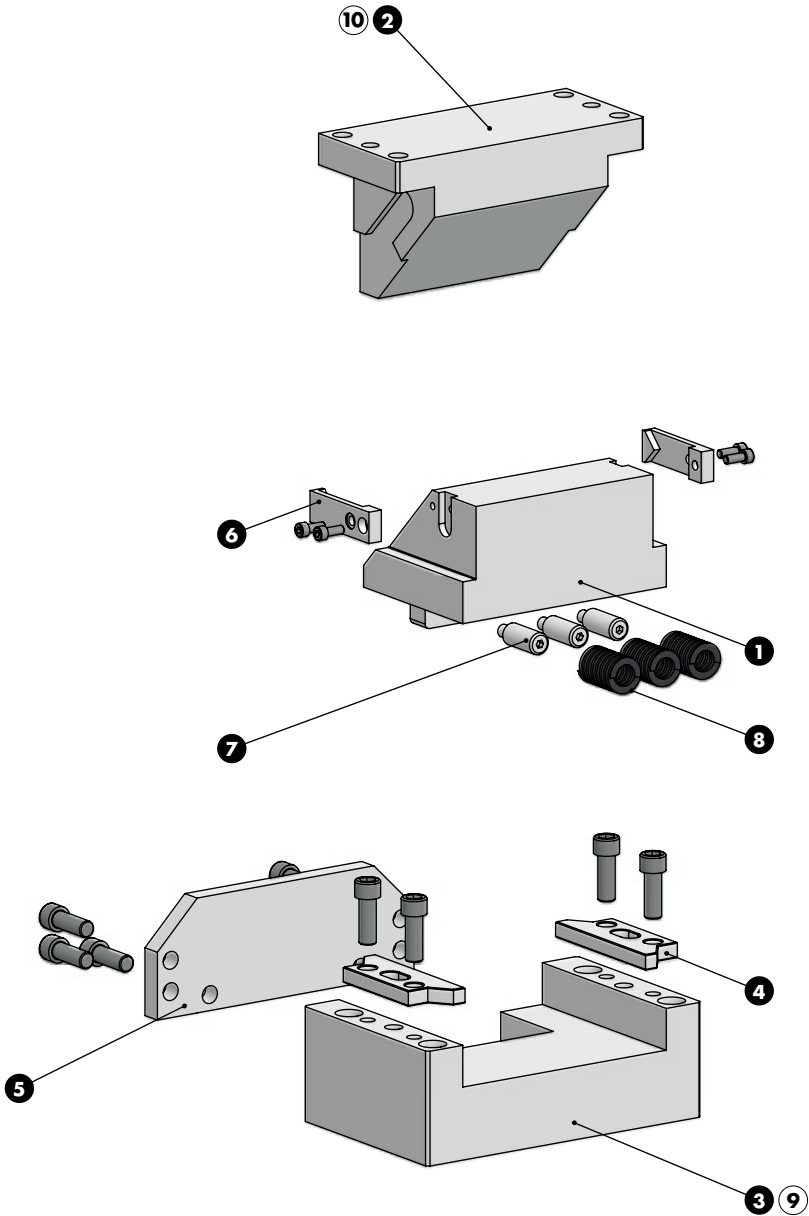
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

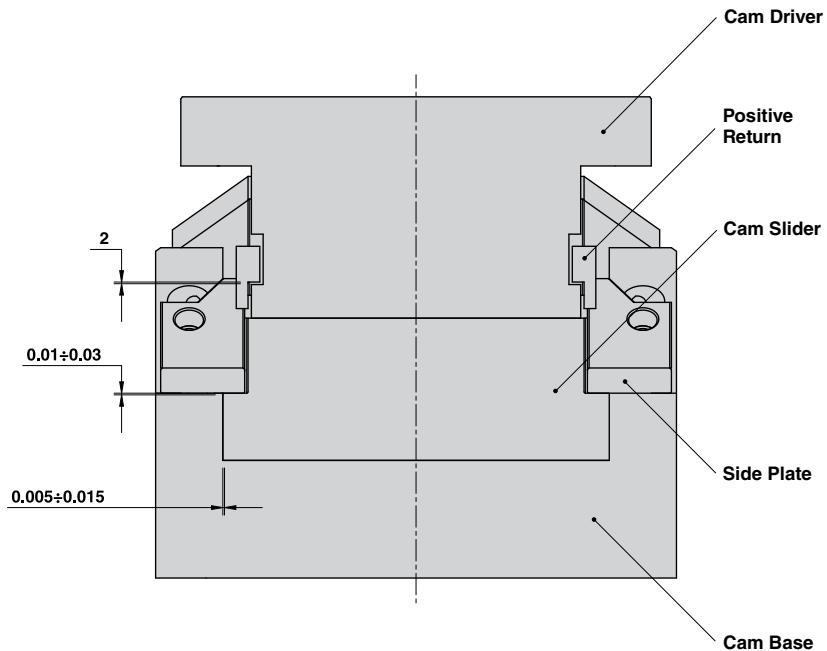


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

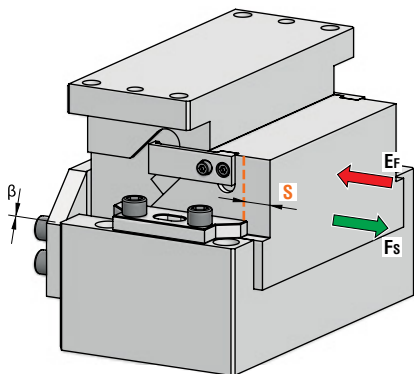
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	2
7	Spring Guide Pin	CK45	3
8	Spring	-	3
9	Cam Base Fixing Screws M16x80 DIN 912	-	4
10	Cam Driver Fixing Screws M16x60 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



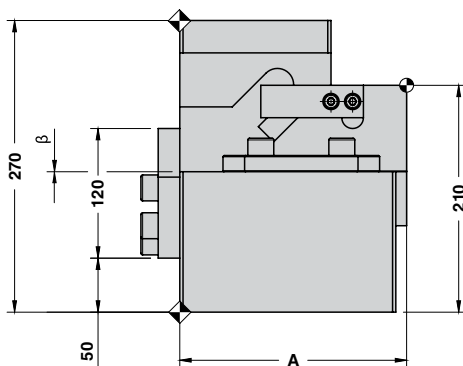
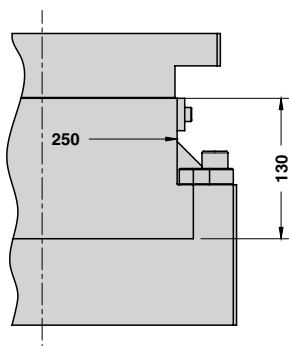
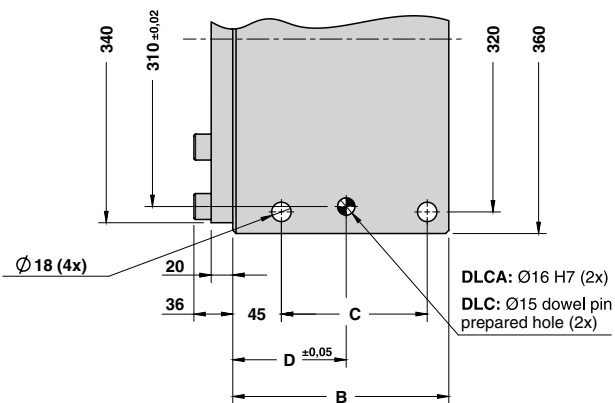
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	B	S	F _s	E _f
DLC-DLCA250.00.40	0°	40	158	3,80
DLC-DLCA250.00.60	0°	60	158	3,83



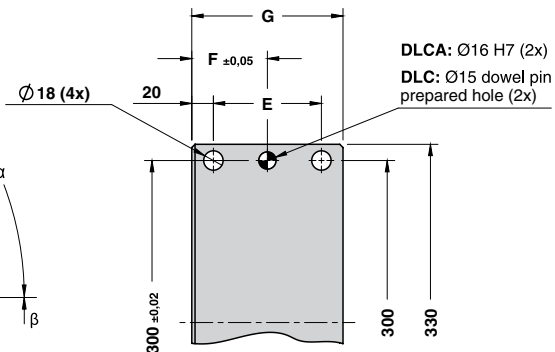
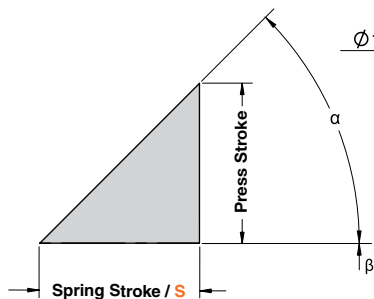
Art.	Work Angle = 0°	Stroke = 60
DLC250	00	60

OMCR CODE		Work Angle	Stroke	Overall Dimensions (mm)						
				B	S	A	B	C	D	E
DLC250.00.40	DLCA250.00.40	0°	40	210	200	135	105	100	70	140
DLC250.00.60	DLCA250.00.60	0°	60	230	220	155	125	120	80	160

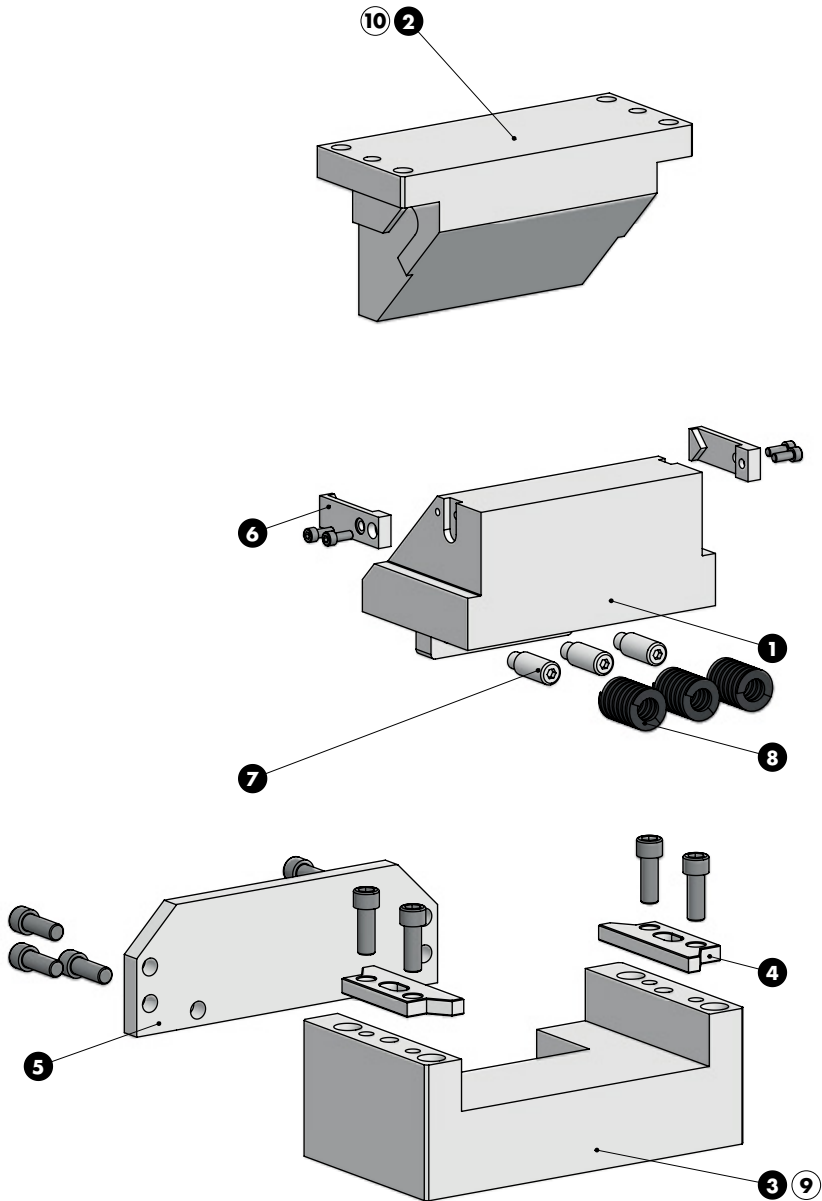
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

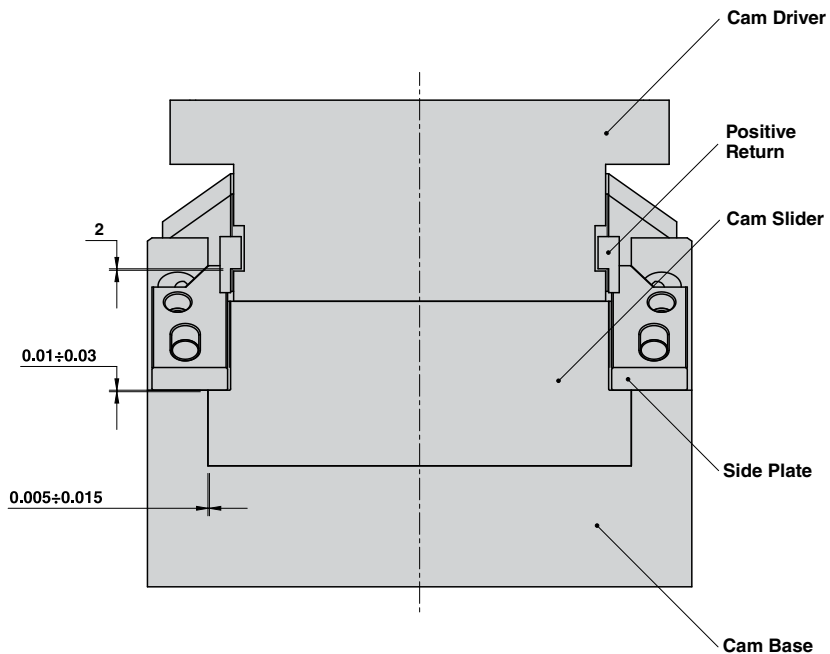


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

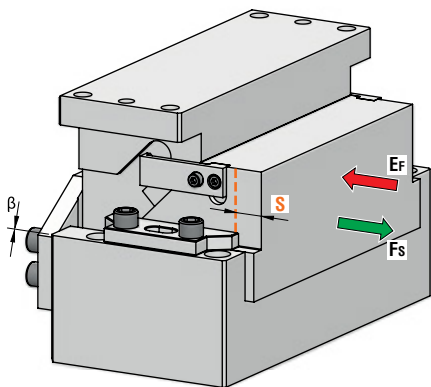
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	2
7	Spring Guide Pin	CK45	3
8	Spring	-	3
9	Cam Base Fixing Screws M16x90 DIN 912	-	4
10	Cam Driver Fixing Screws M16x60 DIN 912	-	4

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



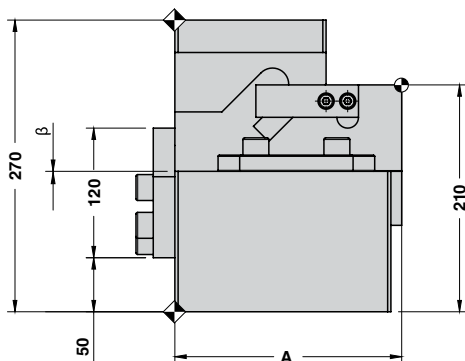
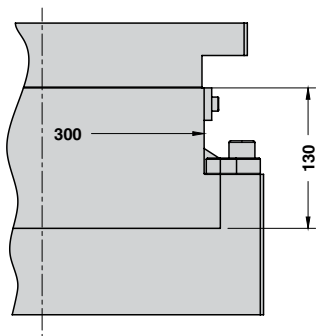
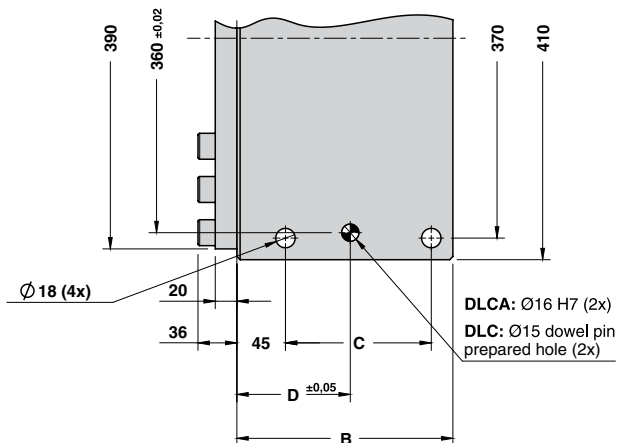
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f Spring
DLC-DLCA300.00.40	0°	40	189	3,80
DLC-DLCA300.00.60	0°	60	189	3,83



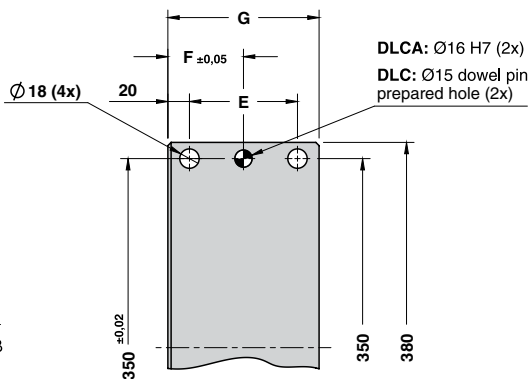
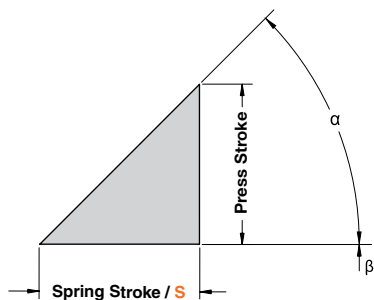
Art.	Work Angle = 0°	Stroke = 60
DLC300	00	60

OMCR CODE		Work Angle	Stroke	Overall Dimensions (mm)						
				β	S	A	B	C	D	E
DLC300.00.40	DLCA300.00.40	0°	40	210	200	135	105	100	70	140
DLC300.00.60	DLCA300.00.60	0°	60	230	220	155	125	120	80	160

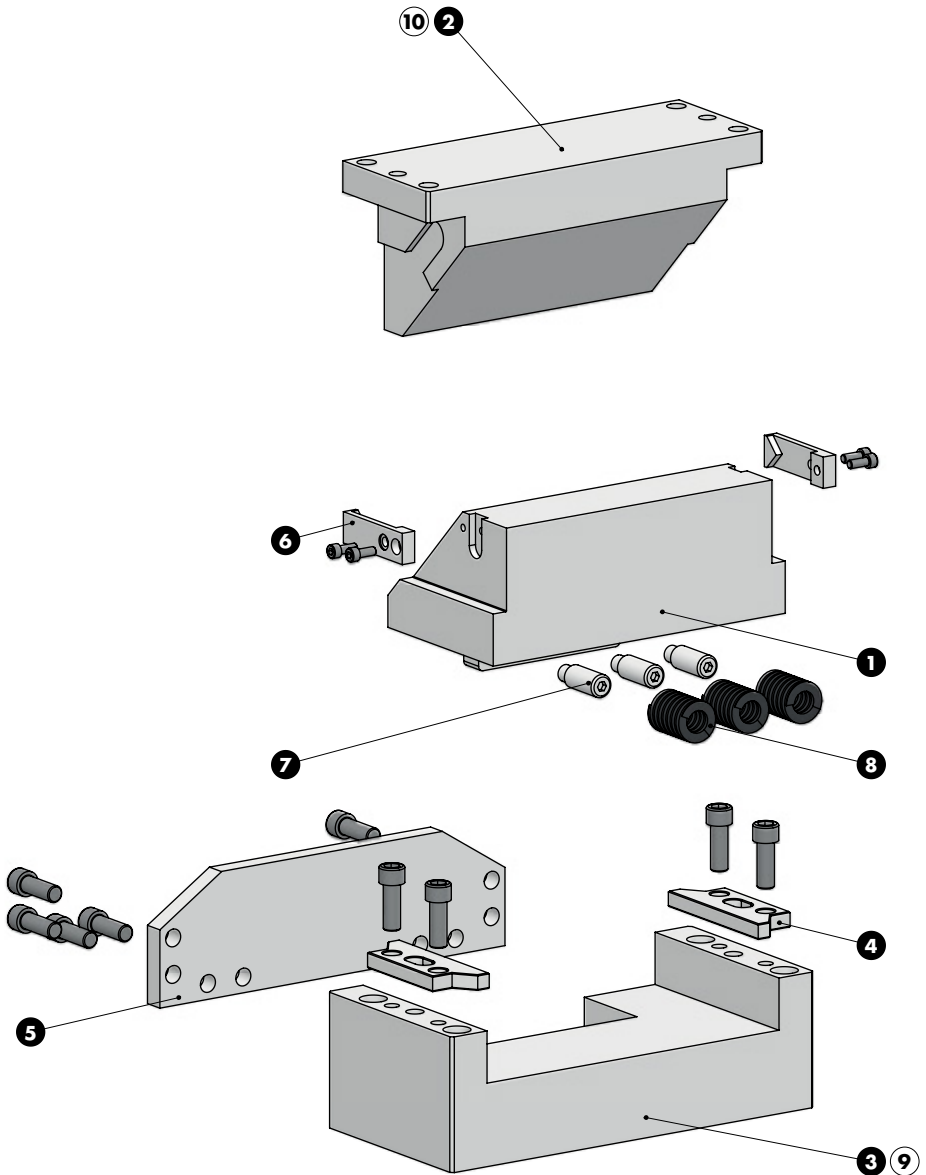
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



CAM DIAGRAM

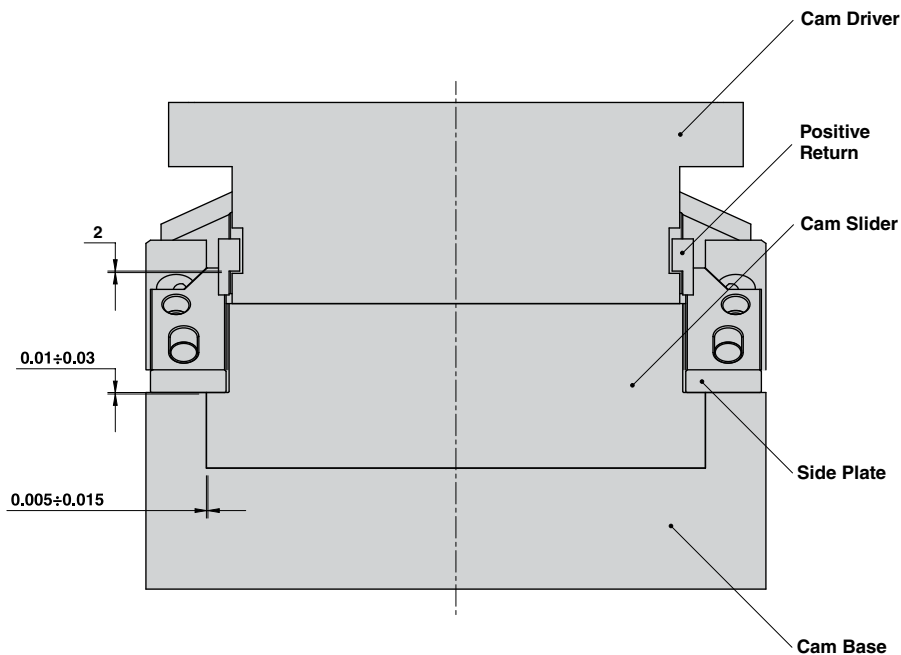


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units
DLC/DLCA

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	St44	1
6	Positive Return	CK45	2
7	Spring Guide Pin	CK45	3
8	Spring	-	3
9	Cam Base Fixing Screws M16x90 DIN 912	-	4
10	Cam Driver Fixing Screws M16x60 DIN 912	-	4



OMCR®

STANDARD DIE COMPONENTS



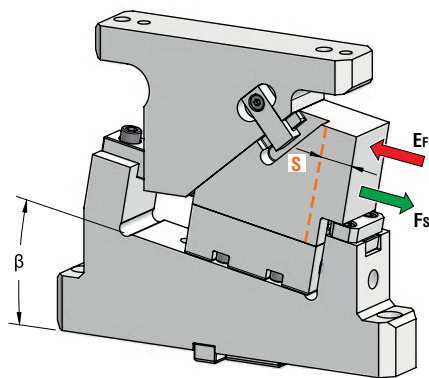
**CAM UNITS DLD
SCHIEBER DLD
CAMME DLD**

OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10 ⁶ cycles (kN)	Extraction Force (kN)
	β				F _s	F _f
DLD052	0÷20° (5° steps)	52	215÷255	52x75	40	0,53
DLD090	0÷15° (5° steps)	90	220÷225	90x82	79	1,05



Best service through competence at all levels

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F_s	E_f Spring
DLD052.00.55	0°	55	40	0,53
DLD052.05.55	5°	55	40	0,53
DLD052.10.55	10°	55	40	0,53
DLD052.15.55	15°	55	40	0,53
DLD052.20.55	20°	55	40	0,53

OPTION CODE

SL	5 ÷ 65 (5mm steps)
SW	100 mm

OPTION CODE

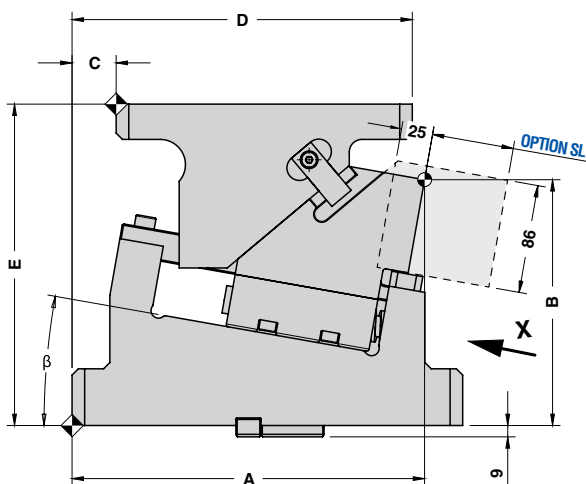
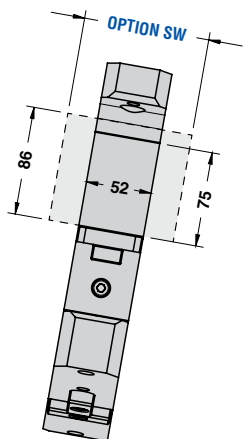
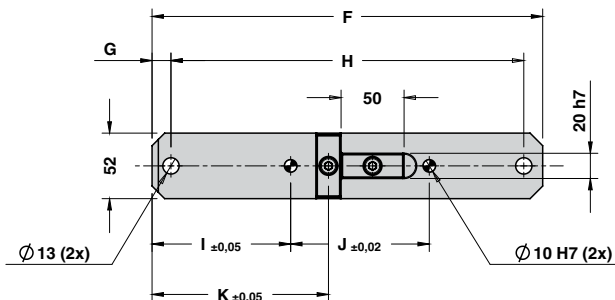


Art.	Work Angle = 5°	Stroke = 55	SL	SW
DLD052	05	55	SL55	SW100

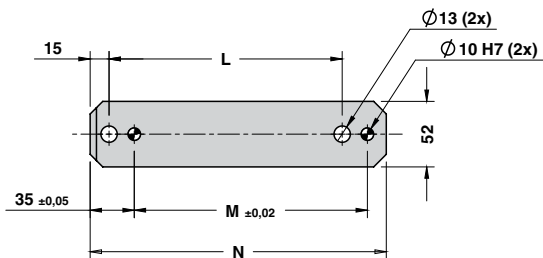
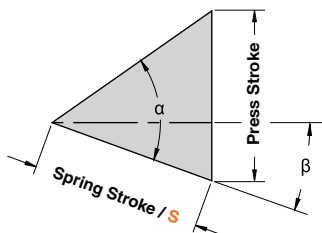
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)													
	β	S	A	B	C	D	E	F	G	H	I	J	K	L	M	N
DLD052.00.55	0°	55	220	170	0	210	215	235	45	145	65	105	90	210	160	210
DLD052.05.55	5°	55	269,87	195,66	35	260	255	310	15	280	110	110	140	225	175	225
DLD052.10.55	10°	55	279,75	195,02	35	270	255	310	15	280	110	110	140	235	185	235
DLD052.15.55	15°	55	289,51	193,09	40	280	255	310	15	280	110	110	140	240	190	240
DLD052.20.55	20°	55	304,05	174,88	55	295	255	310	15	280	110	110	140	240	190	240

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

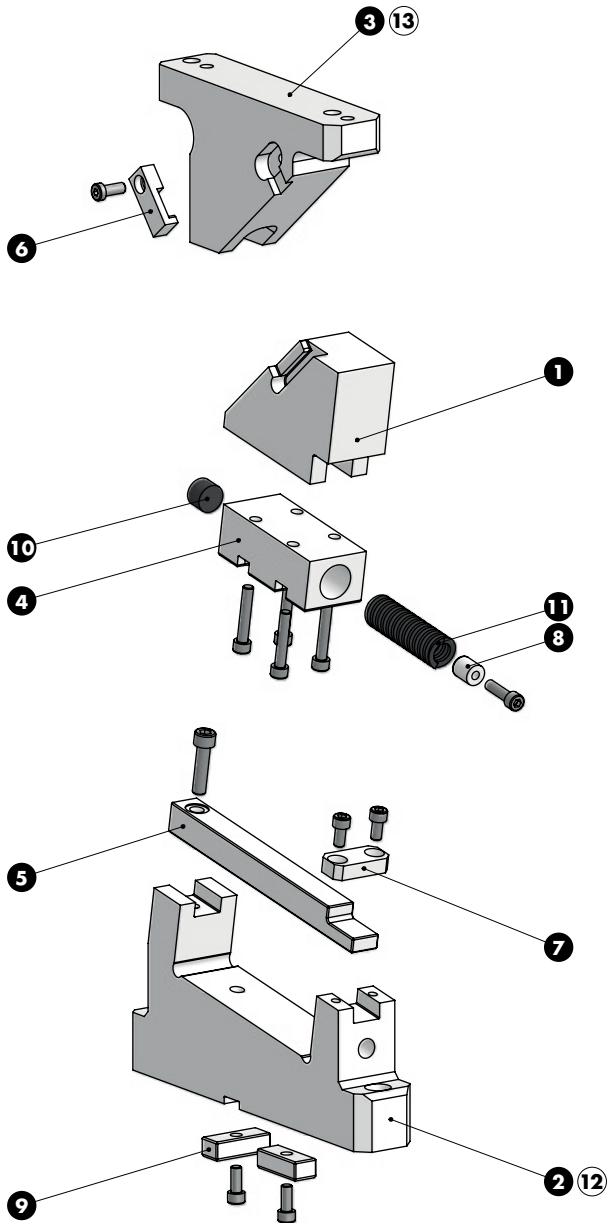
X VIEW



CAM DIAGRAM

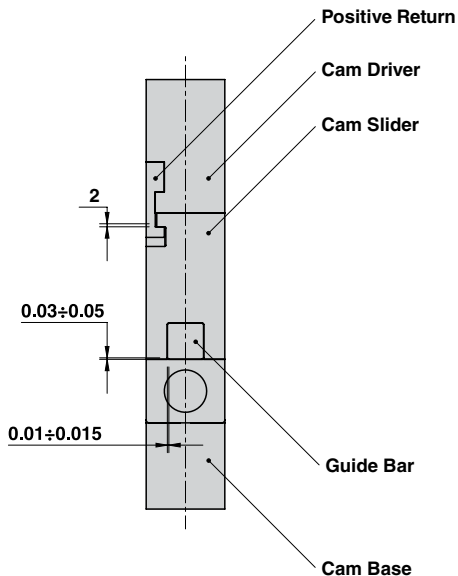


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

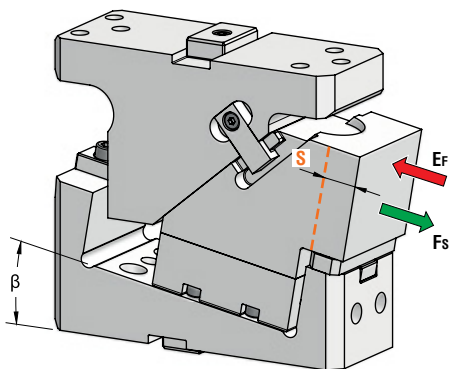
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units DLD

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Base	GG-25	1
3	Cam Driver	GG-25 + Graphite	1
4	Spring Guide Block	GG-25 + Graphite	1
5	Guide Bar	42CrMo4 + Graphite	2
6	Positive Return	CK45	1
7	Guide Bar Stopper Plate	CK45	1
8	Spring Guide Pin	CK45	1
9	Key	CK45	2
10	Elastomer Cap	Elastomer 92SH	1
11	Spring	-	1
12	Cam Base Fixing Screws M12x45 DIN 912	-	2
13	Cam Driver Fixing Screws M12x45 DIN 912	-	2

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	Ef Spring
DLD090.00.55	0°	55	79	1,05
DLD090.05.55	5°	55	79	1,05
DLD090.10.55	10°	55	79	1,05
DLD090.15.55	15°	55	79	1,05

OPTION CODE	
SW	120 or 150 mm
N	∅ 12H7

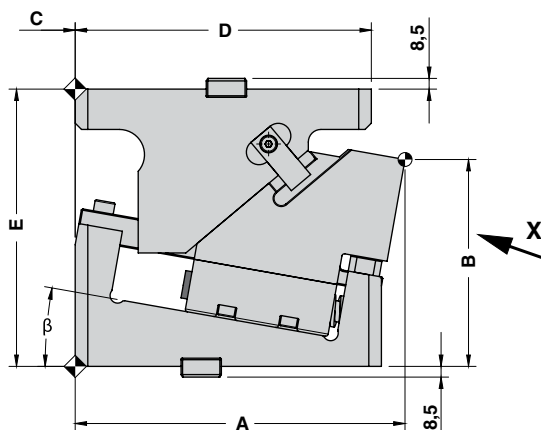
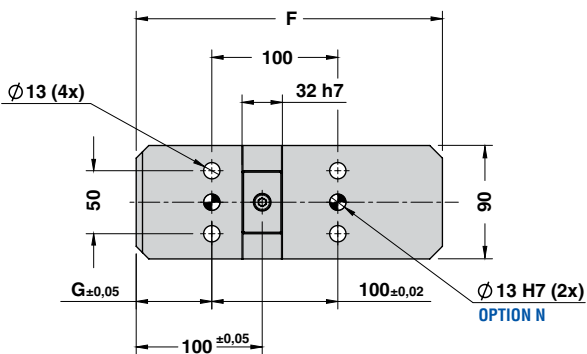
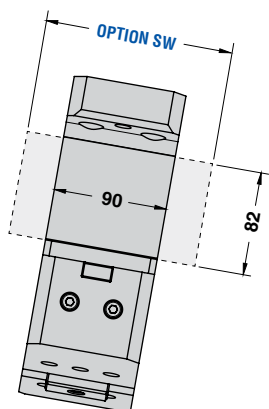


Art.	Work Angle = 5°	Stroke = 55	OPTION CODE	
			SW	N
DLD090	05	55	SW120	N12

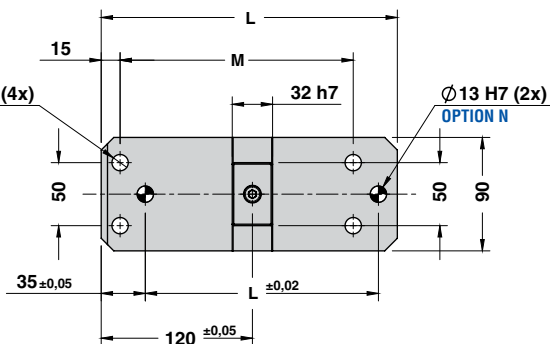
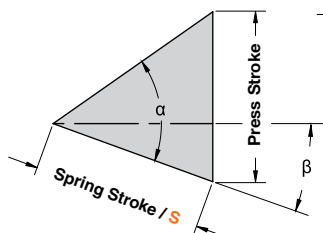
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)									
			β	S	A	B	C	D	E	F	G	L
DLD090.00.55	0°	55		236	182	0	210	220	233	60	210	160
DLD090.05.55	5°	55		251,42	166,24	0	225	220	240	60	225	175
DLD090.10.55	10°	55		261,72	164,14	0	235	220	243	60	235	185
DLD090.15.55	15°	55		275,82	160,97	15	250	225	248	65	235	185

DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

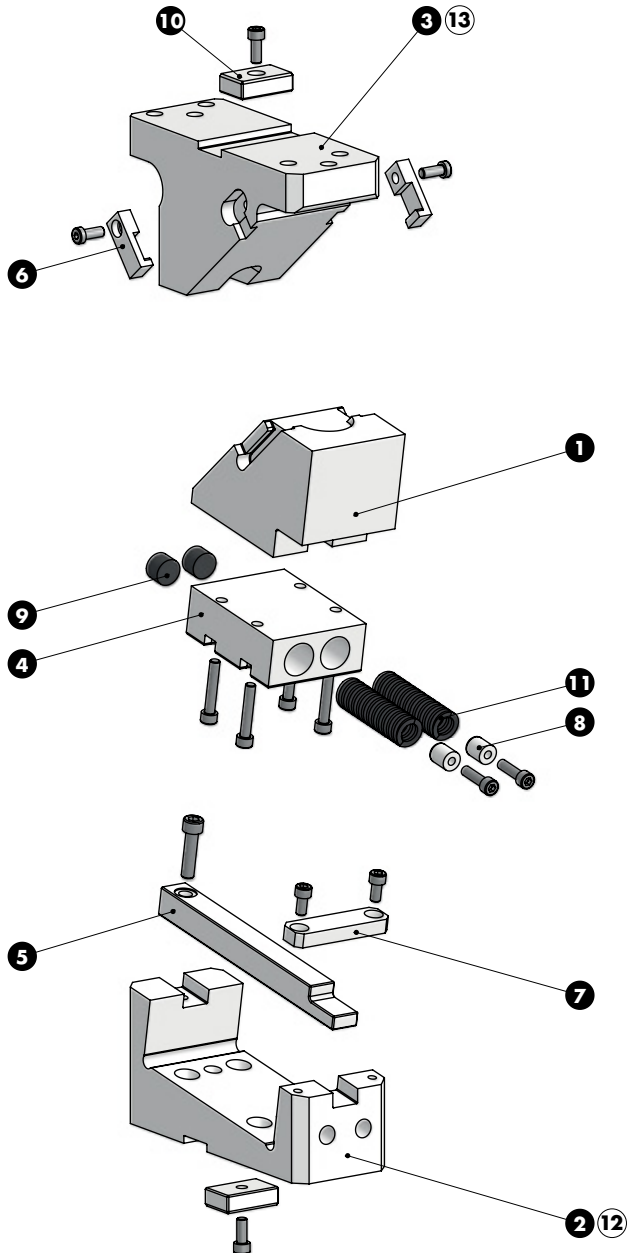
X VIEW



CAM DIAGRAM

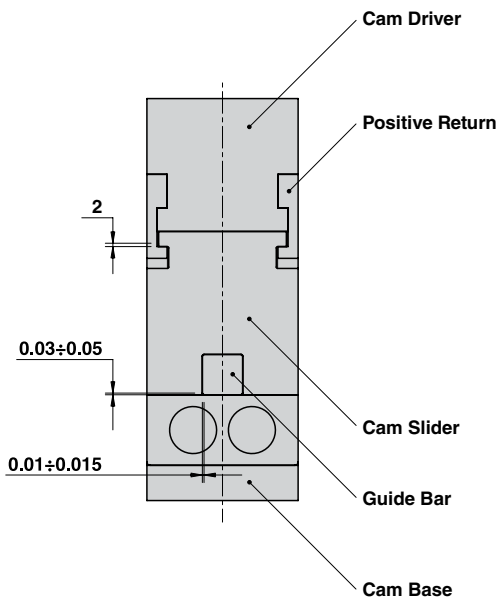


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



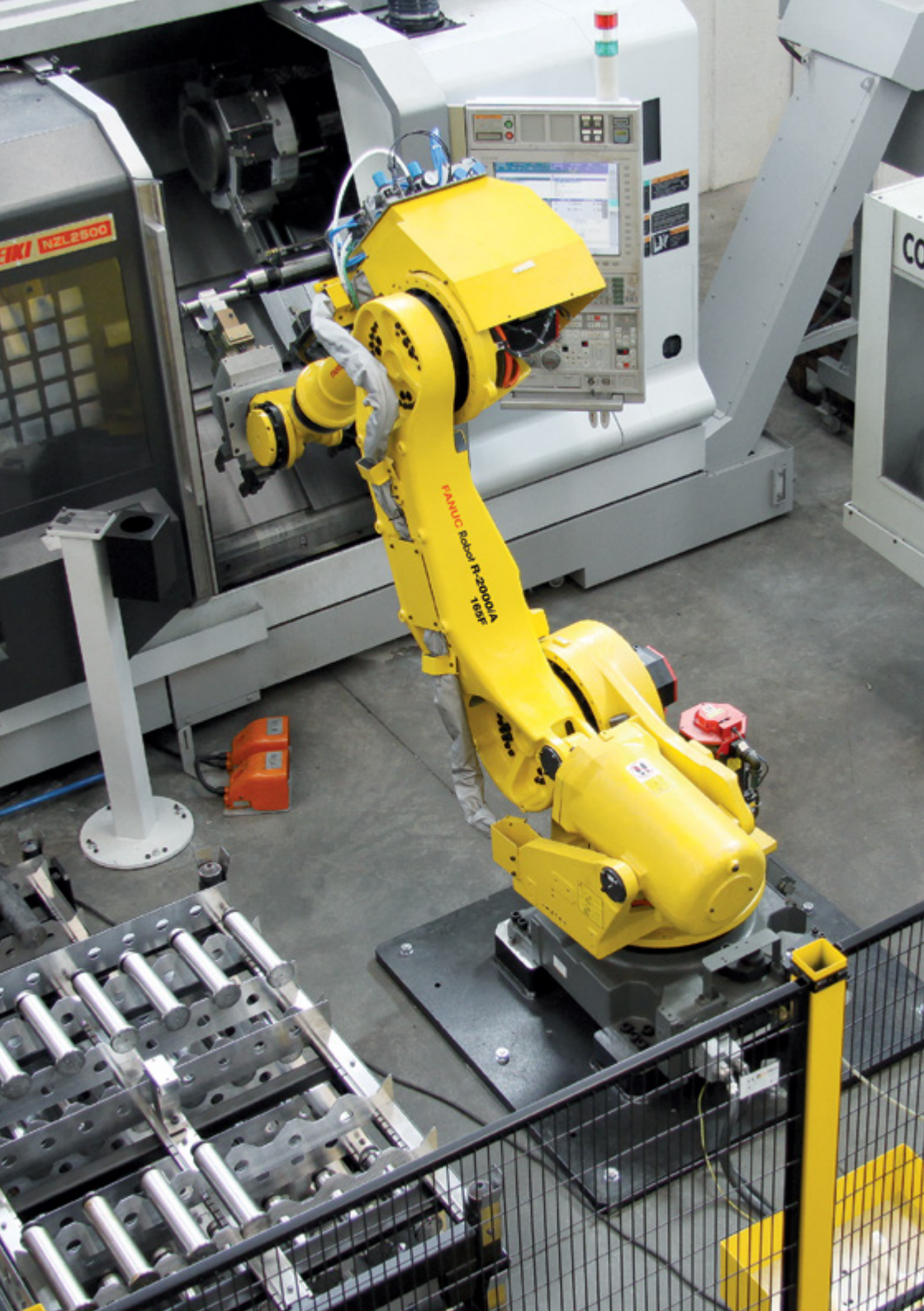
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units DLD

Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Base	GG-25	1
3	Cam Driver	GG-25 + Graphite	1
4	Spring Guide Block	GG-25 + Graphite	1
5	Guide Bar	42CrMo4 + Graphite	1
6	Positive Return	CK45	2
7	Guide Bar Stopper Plate	CK45	1
8	Spring Guide Pin	CK45	2
9	Key	CK45	2
10	Elastomer Cap	Elastomer 92SH	2
11	Spring	-	2
12	Cam Base Fixing Screws M12x45 DIN 912	-	4
13	Cam Driver Fixing Screws M12x45 DIN 912	-	4



FANUC
Robot R-2000iA
180F

NZL8500

CO



OMCR®

STANDARD DIE COMPONENTS



LIFTING ELEMENTS
TRAGELEMENTE
ELEMENTI DI SOLLEVAMENTO

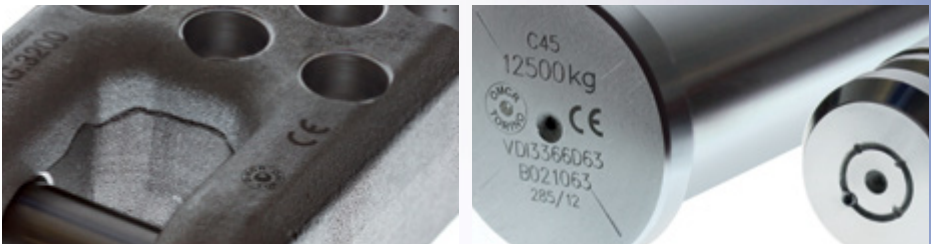


Lifting Elements

☞ Safety is the password of **Lifting Elements line**: certainty about the conformity of the used materials, checks executed a work of art and final careful inspection. Therefore those items are able to satisfy all the requirements about the handling of any size or weight die, under the whole safety. The **EC mark**, required by the **Directive Machine 2006/42/EC** to all “lifting accessories” producers, foresee several documents, including a use and maintenance manual and the conformity certification that customers can find on our website: **www.omcr.it**.

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EC CONFORMITY DECLARATION

OMCR S.p.A. located in Via Cassanese, 10 - 20090 Sesto San Giovanni (MI) through its legal representative manager, declares that:

LIFTING-PIN

OMCR articles: **B02.01 - B02.02 - B02.03 - B02.04 - B02.05 - B02.06 - B02.07 - B02.08 - B02.09 - B02.10 - B02.11 - B02.12 - B02.13 - B02.14 - B02.15 - B02.16 - B02.17 - B02.18 - B02.19 - B02.20 - B02.21 - B02.22 - B02.23**

Have a mark number visibly marked on every model. It is possible to find out the documents filed in the Technical Office, to identify each manufacturing and inspection history of the products. All the quality and safety procedures are managed by IM Networks, responsible of the Technical file, writing in OMCR, the Cassanese 10, 20090 Sesto San Giovanni. These procedures have been exactly traced in order OMCR mark with CE applied to ensure that these products:

- are in compliance with the applicable conditions from Directive 2004/42/CE of CE Mark
- are tested and certified to be suitable also with the horizontal and vertical CE Mark, after European Directive on the steel wire rope and its mark.

Before using lifting pins and they handles, please read carefully the User and maintenance manual.

An operator or approved user in accordance to the prescriptions stated in this manual should file CE conformity declaration and affix the OMCR mark on any responsibility.

Responsible of the Product Development/Research and Development Department
 Technical Office
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 Tel. +39 02 80000000 - Fax +39 02 80000001
 www.omcr.it

OMCR S.p.A.
 A legal representative
 Dimensione Sesto

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Lifting Elements

OMCR



Weldings check through penetrant testing.

Kontrolle der Schweißnähte mit Kontrastmitteln.

Controllo saldature con liquidi penetranti.



Mechanical resistance test.

Prüfung des mechanischen Widerstands.

Verifiche di resistenza meccanica.

Magnaflux test.

Magnetoskopie-Prüfzertifikat.

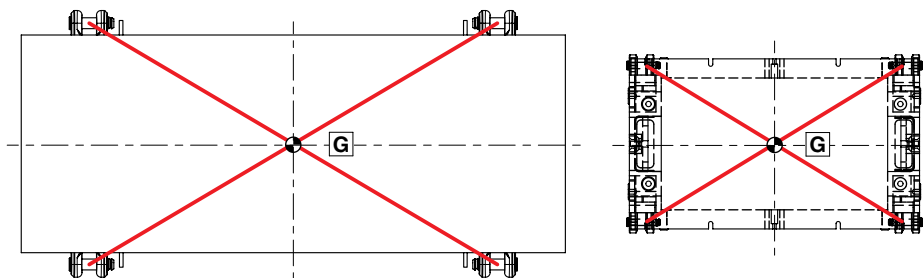
Certificato prova magnetoscopica.

WARNING - ANMERKUNG - AVVERTENZA

- Ⓒ For safety reasons consider that the die weight should be supported by only two lifting elements.
- Ⓓ Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.
- Ⓘ Per ragioni di sicurezza considerare sempre che il peso dello stampo deve essere sopportato da due soli elementi di sollevamento.

WARNING - ANMERKUNG - AVVERTENZA

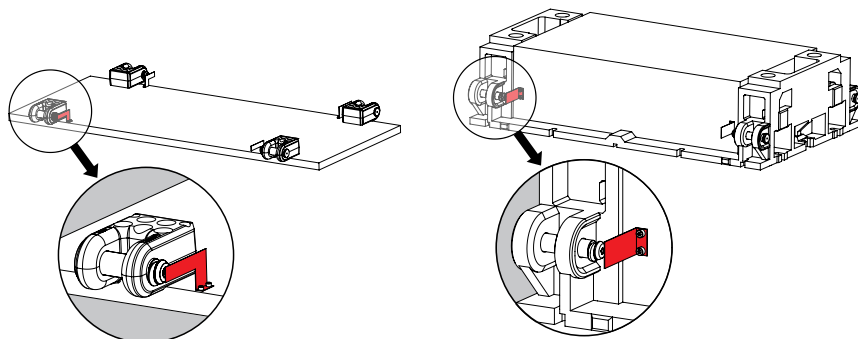
- Ⓒ In the design stage make sure that the die load center is as symmetrical to the lifting elements as possible.
- Ⓓ Bei der Konstruktion sicherstellen, dass der Schwerpunkt des Werkzeugs so symmetrisch wie möglich zu den Tragelementen ist.
- Ⓘ In fase di progetto verificare che il baricentro dello stampo sia il più possibile simmetrico rispetto agli elementi di sollevamento.



Pic.01

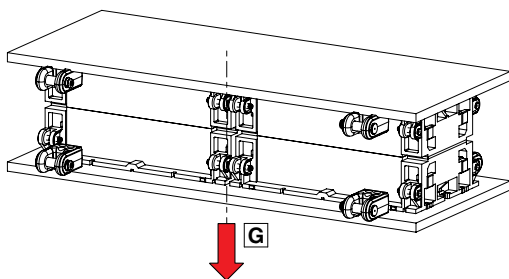
WARNING - ANMERKUNG - AVVERTENZA

- Ⓒ It is recommended to provide barriers to avoid the wrong pins insertion
- Ⓓ Wird die Verwendung von Sperren empfohlen, um eine nicht korrekte Einbringung der Tragbolzen zu verhindern
- Ⓘ Si consiglia l'uso di barriere per impedire l'inserimento scorretto dei perni.



Pic.02

DIMENSIONING EXAMPLE - DIMENSIONIERUNGSBEISPIEL - ESEMPIO DI DIMENSIONAMENTO

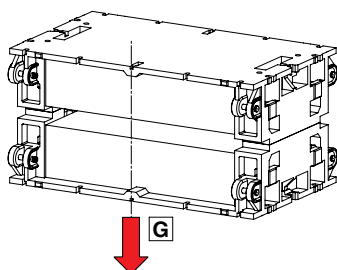


Pic.03

Die weight "G" = 36.000 kg
 $36.000/2 = 18.000$ kg
Use lifting bracket B01.20.18000

Gewicht Werkzeug "G" = 36.000 kg
 $36.000/2 = 18.000$ kg
Verwendung tragwange B01.20.18000

Peso stampo "G" = 36.000 kg
 $36.000/2 = 18.000$ kg
Utilizzare staffa B01.20.18000

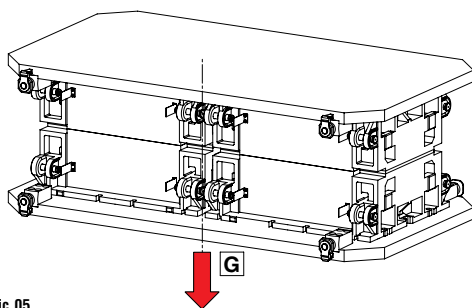


Pic.04

Die weight "G" = 25.000 kg
 $25.000/2 = 12.500$ kg
Use pin B02.10.063

Gewicht Werkzeug "G" = 25.000 kg
 $25.000/2 = 12.500$ kg
Tragbolzen B02.10.063

Peso stampo "G" = 25.000 kg
 $25.000/2 = 12.500$ kg
Utilizzare perno B02.10.063

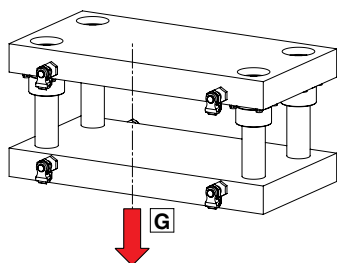


Pic.05

Die weight "G" = 16.000 kg
 $16.000/2 = 8.000$ kg
Use lifting bracket B01.11.063

Gewicht Werkzeug "G" = 16.000 kg
 $16.000/2 = 8.000$ kg
Verwendung tragwange B01.11.063

Peso stampo "G" = 16.000 kg
 $16.000/2 = 8.000$ kg
Utilizzare staffa B01.11.063



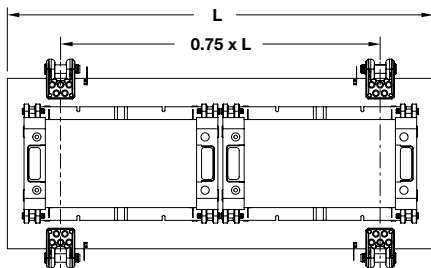
Pic.06

Die weight "G" = 3.000 kg
 $3.000/2 = 1.500$ kg
Use lifting pin B02.06.032

Gewicht Werkzeug "G" = 3.000 kg
 $3.000/2 = 1.500$ kg
Verwendung Tragschraube B02.06.032

Peso stampo "G" = 3.000 kg
 $3.000/2 = 1.500$ kg
Utilizzare perno B02.06.032

APPLICATION - ANWENDUNG - APPLICAZIONE

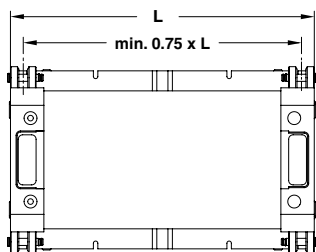


Pic.07

Ⓒ The **lifting brackets** should be positioned as shown in **Pic. 07**.

Ⓓ Die **Tragwangen** müssen gemäß der Darstellung auf **Pic. 07** positioniert werden.

Ⓘ Le **staffe** devono essere posizionate secondo lo schema rappresentato in **Pic. 07**.

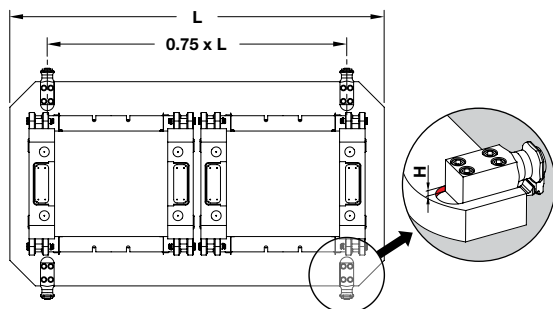


Pic.08

Ⓒ The **lifting pin** should be positioned as shown in **Pic. 08**.

Ⓓ Die **Tragbolzen** müssen gemäß der Darstellung auf **Pic. 08** positioniert werden.

Ⓘ I **perni** devono essere posizionati secondo lo schema rappresentato in **Pic. 08**.

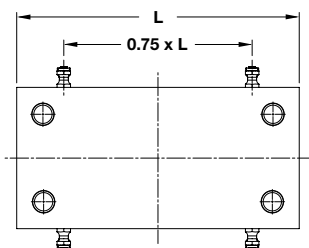


Pic.09

Ⓒ The **lifting brackets** should be positioned as shown in **Pic. 09** into the specific fixing-seats.

Ⓓ Die **Tragzapfen** müssen gemäß der Darstellung auf **Pic. 09** positioniert werden.

Ⓘ Le **staffe** devono essere posizionate secondo lo schema rappresentato in **Pic. 09** all'interno delle sedi d'incastro dedicate.



Pic.10

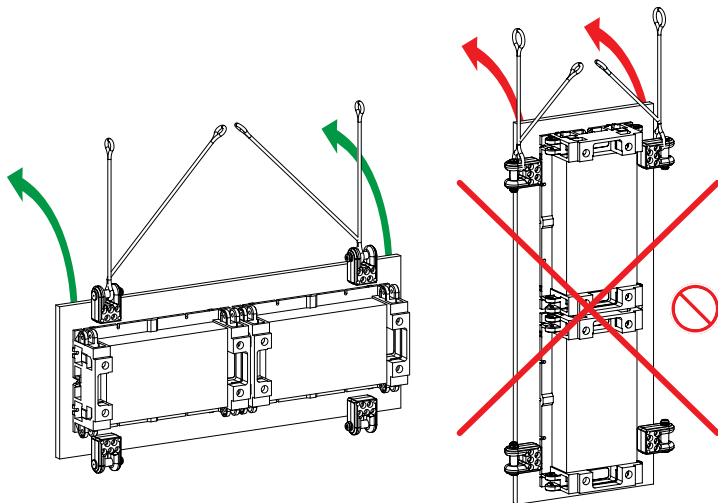
Ⓒ The **lifting pins** should be positioned as shown in **Pic. 10**.

Ⓓ Die **Tragschrauben** müssen gemäß der Darstellung auf **Pic. 10** positioniert werden.

Ⓘ I **perni** devono essere posizionati secondo lo schema rappresentato in **Pic. 10**.

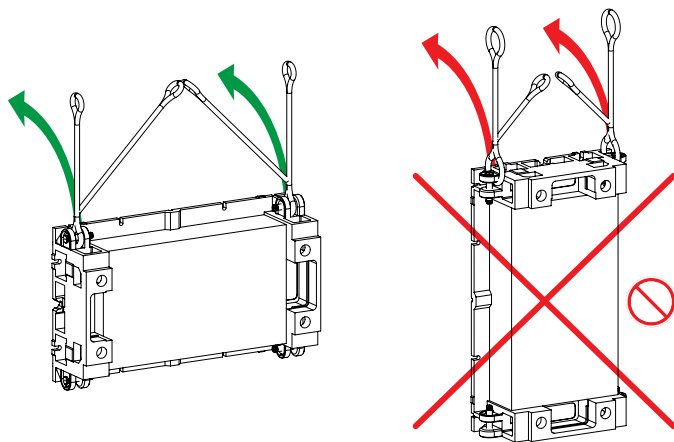
OVERTURNING - WENDEN - RIBALTAMENTO

- Ⓒ The die overturning is allowed only parallel with lifting pin axis.
- Ⓓ Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragbolzen erfolgen.
- Ⓙ Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



Pic.11

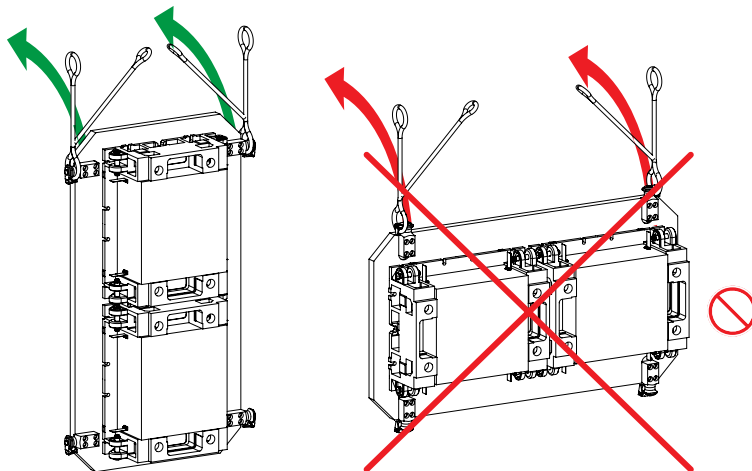
- Ⓒ The die overturning is allowed only parallel with lifting pin axis.
- Ⓓ Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragbolzen erfolgen.
- Ⓙ Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



Pic.12

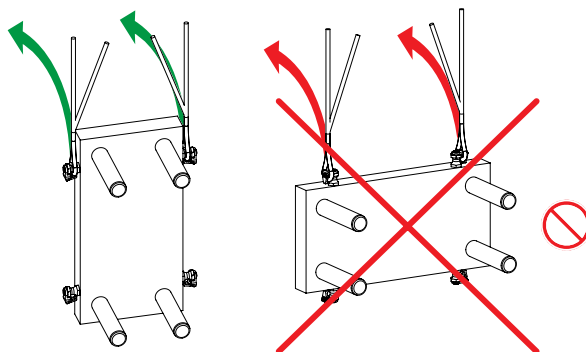
OVERTURNING - WENDEN - RIBALTAMENTO

- Ⓒ The die overturning is allowed only parallel with lifting bracket axis.
- Ⓓ Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragzapfen erfolgen.
- Ⓘ Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse della staffa di sollevamento.



Pic.13

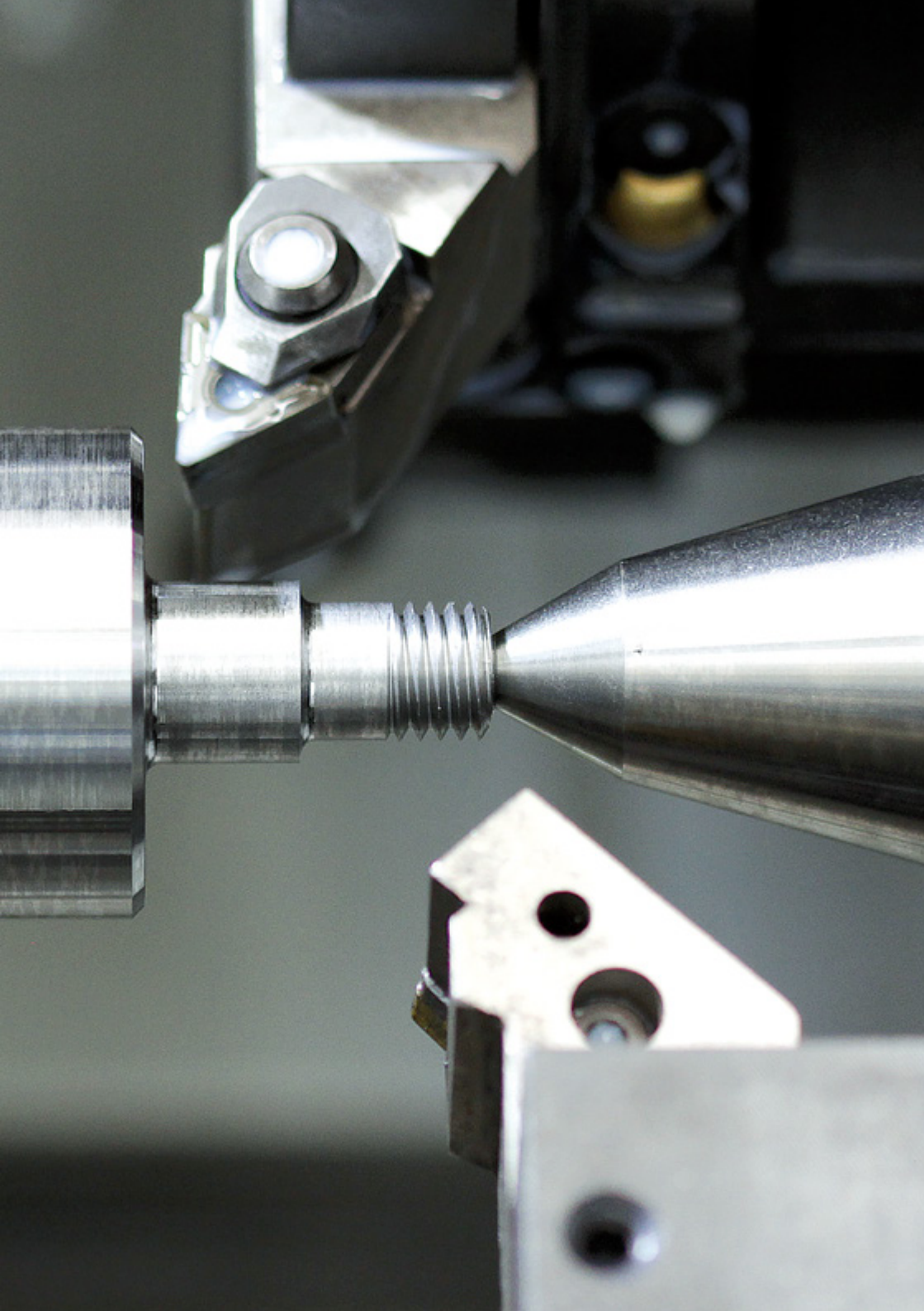
- Ⓒ The die overturning is allowed only parallel with lifting pin axis.
- Ⓓ Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragschraube erfolgen.
- Ⓘ Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



Pic.14

INFORMATION - INFORMATIONEN - INFORMAZIONI

- Ⓒ For more informations see the use and maintenance manuals available on: www.omcr.it.
- Ⓓ Weitere Informationen finden Sie in den Gebrauchs- und Instandhaltungsanleitungen auf unserer Internetseite www.omcr.it.
- Ⓘ Per maggiori informazioni consultare i manuali di uso e manutenzione disponibili sul nostro sito: www.omcr.it.

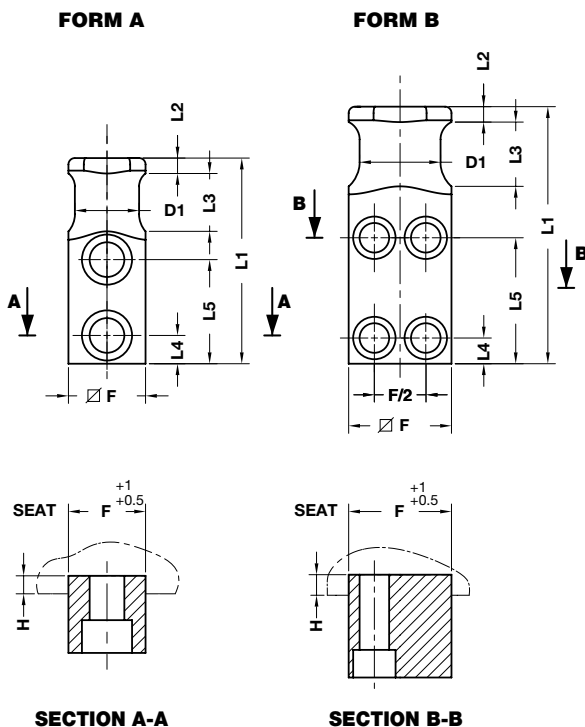


				
VDI 3366		BMW	FCA	RENAULT
Lifting bracket Tragzapfen Staffa di sollevamento	Lifting bracket with rope safety stop Tragzapfen mit Seilsicherung Staffa di sollevamento con sicurezza fermafune	Lifting bracket with rope safety stop Tragzapfen mit Seilsicherung Staffa di sollevamento con sicurezza fermafune	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno
920	921	922	923	924
				
BMW	BMW	VW/AUDI	VDI 3366	
Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno	Lifting bracket with pin Tragwange mit Tragbolzen Staffa di sollevamento completa di perno
925	926	927	928	929
				
VDI 3366		VDI 3366	VW	FCA
Lifting pin Tragschraube Perno di sollevamento	Lifting pin with rope safety stop Tragschraube mit Seilsicherung Perno di sollevamento con sicurezza fermafune	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento
930	931	932	933	934
				
FORD	NISSAN	OPEL - GM	PSA - RENAULT	VOLVO
Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento
935	936	937	938	939

B02.40	B02.42	B02.44	B02.45	B08.11
BMW	FCA	VW/AUDI		VDI - BAK
Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Lifting pin Tragbolzen Perno di sollevamento	Replacement lifting pin for lifting bracket Ersatztragbolzen für Tragwange Perno di ricambio per staffa di sollevamento	Bush for lifting pin Buchse für Tragbolzen Boccola per perno di sollevamento
940	941	942	943	944

B09.10
Rope stop safety opening key Schlüssel für Seilsicherung Chiave per apertura sicurezza fermafune
945

LIFTING BRACKET VDI 3366 TRAGZAPFEN VDI 3366 STAFFA DI SOLLEVAMENTO VDI 3366



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere supportato da 2 sole staffe.

Notes

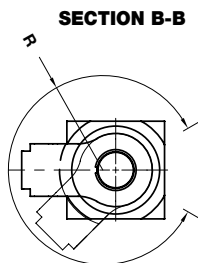
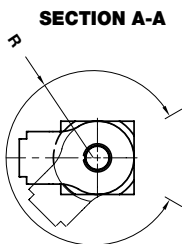
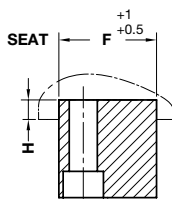
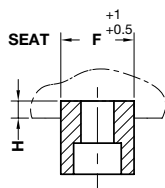
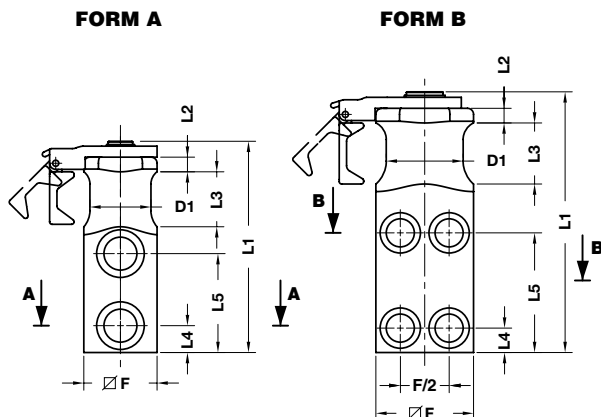
Material: CK45 - 700÷800 N/mm²
Screws not included

	Art.	D1=100
	B01.10.	100

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	L1	L2	L3	L4	L5	F	H	FORM	Screws DIN 912 - 8.8
B01.10.016	320	640	16	80	6	20	10	44	20	6	A	M8x25
B01.10.020	630	1260	20	90	8	25	10	47	25	8	A	M10x30
B01.10.025	1250	2500	25	100	8	30	12	50	35	10	A	M12x40
B01.10.032	2000	4000	32	120	10	32	16	62	40	10	A	M16x45
B01.10.040	3200	6400	40	140	10	40	18	72	50	12	A	M20x60
B01.10.050	5000	10000	50	160	12	45	22	81	60	14	A	M24x70
B01.10.063	8000	16000	63	200	12	50	20	98	80	16	B	M20x90
B01.10.080	12500	25000	80	250	15	65	25	125	100	18	B	M24x110
B01.10.100	20000	40000	100	300	15	80	30	155	120	20	B	M30x130

LIFTING BRACKET WITH ROPE SAFETY STOP TRAGZAPFEN MIT SEILSICHERUNG STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE

Patent-Nr.: TO2003A000468



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

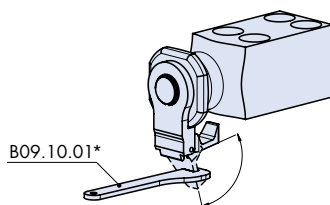
WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

Material: CK45 - 700±800 N/mm²
Screws not included



*To open rope stop safety use key B09.10.01

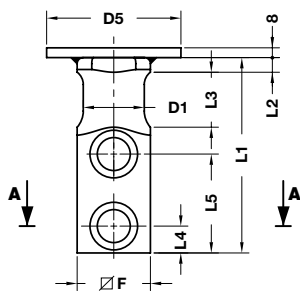
Art.	D1=50
B01.11.	050

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	L1	L2	L3	L4	L5	F	H	R	FORM	Screws DIN 912 - 8.8
B01.11.020	630	1260	20	99	8	25	10	47	25	8	38	A	M10x30
B01.11.025	1250	2500	25	112,5	8	30	12	50	35	10	42	A	M12x40
B01.11.032	2000	4000	32	132,5	10	32	16	62	40	10	52	A	M16x45
B01.11.040	3200	6400	40	152,5	10	40	18	72	50	12	60	A	M20x60
B01.11.050	5000	10000	50	173	12	45	22	81	60	14	66	A	M24x70
B01.11.063	8000	16000	63	213,5	12	50	20	98	80	16	80	B	M20x90

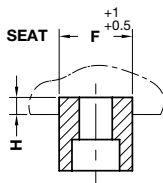
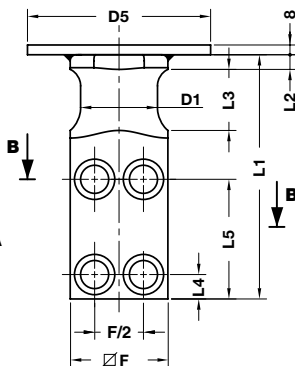
LIFTING BRACKET WITH ROPE SAFETY STOP TRAGZAPFEN MIT SEILSICHERUNG STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE



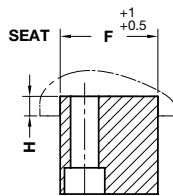
FORM A



FORM B



SECTION A-A



SECTION B-B



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

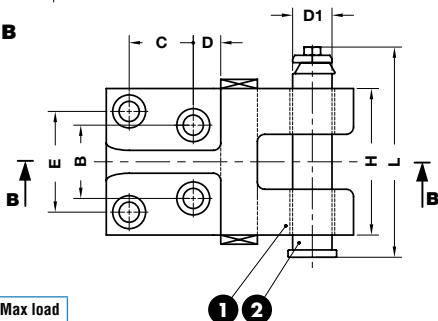
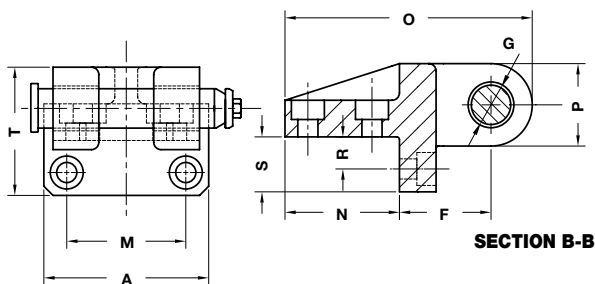
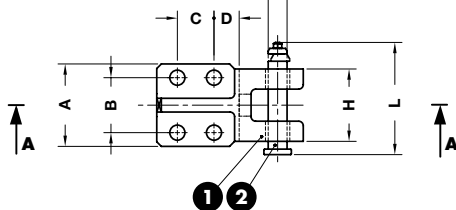
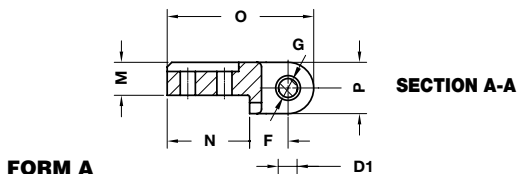
Notes

Material: CK45 - 700÷800 N/mm²
Screws not included

ORDER EXAMPLE	Art.	D1=80
	B01.12.	080

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D5	L1	L2	L3	L4	L5	F	H	FORM	Screws DIN 912 - 8.8
B01.12.016	320	640	16	60	80	6	20	10	44	20	6	A	M8x25
B01.12.020	630	1260	20	70	90	8	25	10	47	25	8	A	M10x30
B01.12.025	1250	2500	25	70	100	8	30	12	50	35	10	A	M12x40
B01.12.032	2000	4000	32	110	120	10	32	16	62	40	10	A	M16x45
B01.12.040	3200	6400	40	110	140	10	40	18	72	50	12	A	M20x60
B01.12.050	5000	10000	50	150	160	12	45	22	81	60	14	A	M24x70
B01.12.063	8000	16000	63	150	200	12	50	20	98	80	16	B	M20x90
B01.12.080	12500	25000	80	150	250	15	65	25	125	100	18	B	M24x110
B01.12.100	20000	40000	100	150	300	15	80	30	155	120	20	B	M30x130

FCA LIFTING BRACKET WITH PIN TRAGWANGE MIT TRAGBOLZEN NACH FCA NORM STAFFA DI SOLLEVAMENTO TIPO FCA COMPLETA DI PERNO



⚠
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

1 Material: CK45
800÷1000 N/mm²

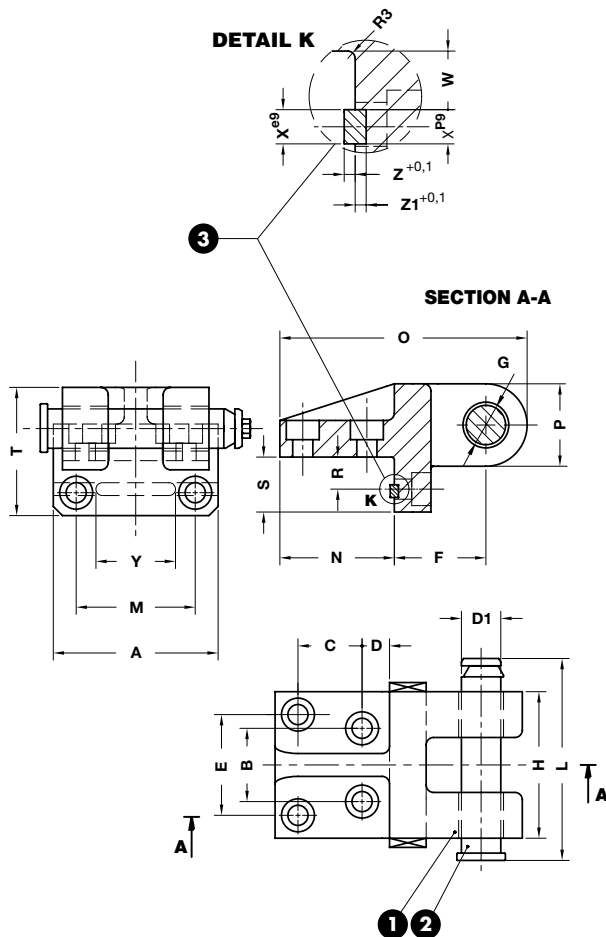
2 B02.42.

Screws not included

Art.	Max load
B01.15.	7000

OMCR CODE	Max load (kg)	Max die weight (kg)	A	B	C	D	D1	E	F	G	H	L	M	N	O	P	R	S	T	FORM	Screws DIN 912 - 8.8
B01.15.0600	600	1200	80	50	40	22,5	15,6	-	39	16	70	102,5	32	80	145	52	-	-	-	A	M12x45
B01.15.1000	1000	2000	90	60	40	27,5	20,6	-	42	21	79	113,5	36	90	160	56	-	-	-	A	M16x55
B01.15.2000	2000	4000	100	65	65	32,5	25,6	-	60	26	90	128,5	50	120	215	70	-	-	-	A	M20x80
B01.15.4000	4000	8000	135	56	60	20	33	84	85	34	125	166,5	96	100	221	72	30	50	111	B	M16x45
B01.15.7000	7000	14000	180	80	70	30	43	110	100	44	160	210,5	130	125	270	90	35	60	140	B	M20x60

RENAULT LIFTING BRACKET WITH PIN TRAGWANGE MIT TRAGBOLZEN NACH RENAULT NORM STAFFA DI SOLLEVAMENTO TIPO RENAULT COMPLETA DI PERNO



⚠

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

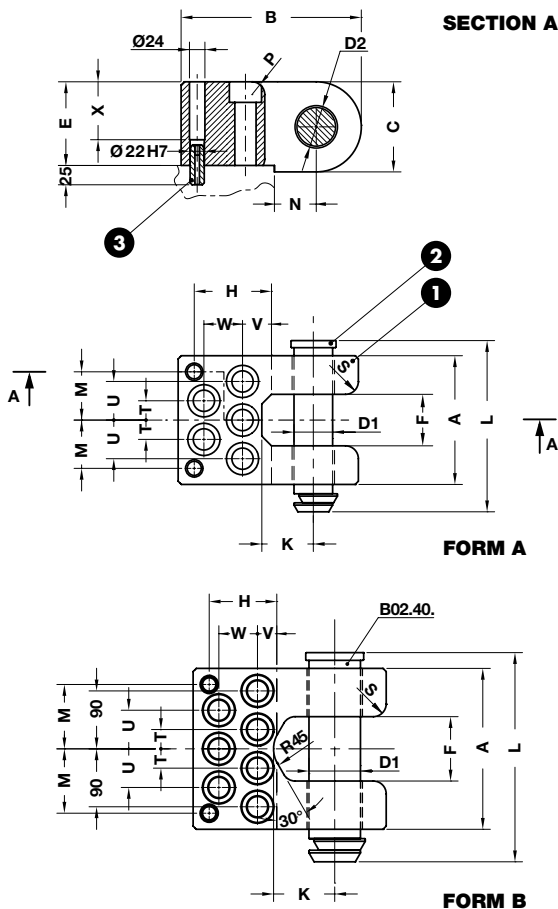
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

- Notes**
- 1** Material: CK45
800÷1000 N/mm²
 - 2** B02.30.
 - 3** KEY DIN 6885
Screws not included

	Art.	Max load
	B01.16.	6300

OMCR CODE	Max load (kg)	Max die weight (kg)	A	B	C	D	D1	E	F	G	H	L	M	N	O	P	R	S	T	W	X	Y	Z	Z1	Screws
B01.16.4000	4000	8000	135	56	60	20	32	84	85	33	125	154	96	100	221	72	30	50	111	24	14	63	4,5	4,5	M16x45
B01.16.6300	6300	12600	180	80	70	30	40	110	100	41	160	197,5	130	125	270	90	35	60	140	27	16	100	5	5	M20x60

BMW LIFTING BRACKET WITH PIN AND LOCATING PINS TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN NACH BMW NORM STAFFA DI SOLLEVAMENTO TIPO BMW COMPLETA DI PERNO E CENTRAGGI



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1 **Material:** St52
- 2 B02.40.
- 3 C11.20.2245 (2x)

Screws not included

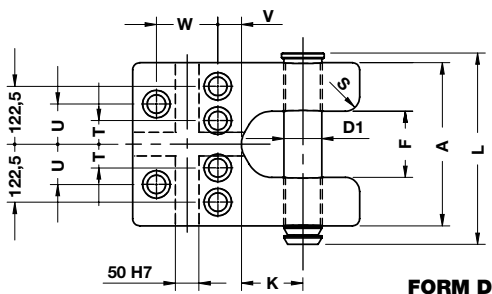
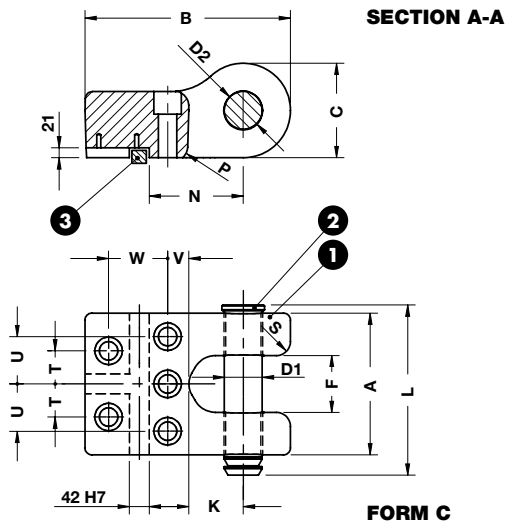
Only for replacement
Nur für Reparatur
Solo per riparazione



Art.	Max load
B01.20.	18000

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	A	B	C	E	F	H	K	L	M	N	P	S	T	U	V	W	X	FORM	Screws DIN 912 - 8.8
B01.20.03200	3200	6400	30	32	126	185	80	75	50	85	50	158	45	40	12	16	20	40	30	35	40	A	M16x80
B01.20.05000	5000	10000	40	42	150	210	100	95	60	87	55	187	52	50	12	20	22,5	45	25	40	60	A	M20x100
B01.20.08000	8000	16000	50	52	175	240	120	115	75	95	70	220	62,5	60	16	24	25	50	35	45	80	A	M24x120
B01.20.12500	12500	25000	60	62	200	280	140	130	80	120	80	246	75	65	20	30	30	60	45	60	95	A	M30x140
B01.20.12500A	12500	25000	60	62	200	300	140	130	80	145	80	246	77,5	65	20	30	35	65	60	65	95	A	M36x160
B01.20.18000	18000	36000	80	82	250	300	160	150	105	95	305	100	90	20	30	30	60	30	60	115	B	M30x160	

BMW LIFTING BRACKET WITH PIN AND KEYS TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER NACH BMW NORM STAFFA DI SOLLEVAMENTO TIPO BMW COMPLETA DI PERNO E CHIAVETTE



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

- 1 **Material:** Si52
- 2 B02.40.
- 3 B01.20.25000: C14.20.42125 (3x)
B01.20.31500: C14.20.42135 (2x)
C14.20.50220 (1x)

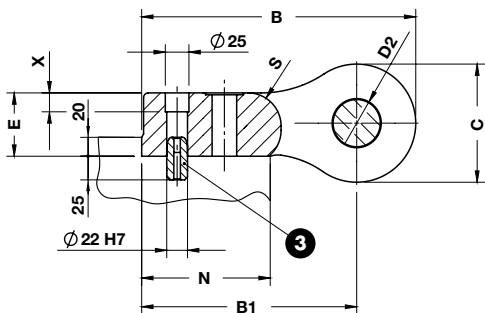
Screws not included

ORDER SAMPLE	Art.	Max load
	B01.20.	31500

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	A	B	C	E	F	K	L	N	P	S	T	U	V	W	FORM	Screws DIN 912-8.8
B01.20.25000	25000	50000	80	82	300	435	200	140	120	115	360	199	30	30	70	100	45	125	C	M36x160 (5x)
B01.20.31500	31500	63000	80	82	345	480	240	170	135	130	405	220	30	30	50	85	50	130	D	M36x200 (6x)

VW/AUDI LIFTING BRACKET WITH PIN AND LOCATING PINS
TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN NACH VW/AUDI NORM
STAFFA DI SOLLEVAMENTO TIPO VW/AUDI COMPLETA DI PERNO E CENTRAGGI

SECTION A-A

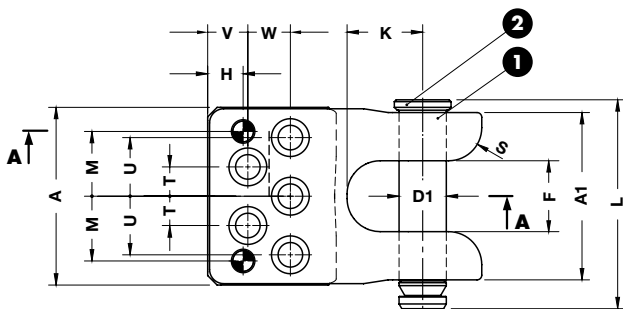


Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

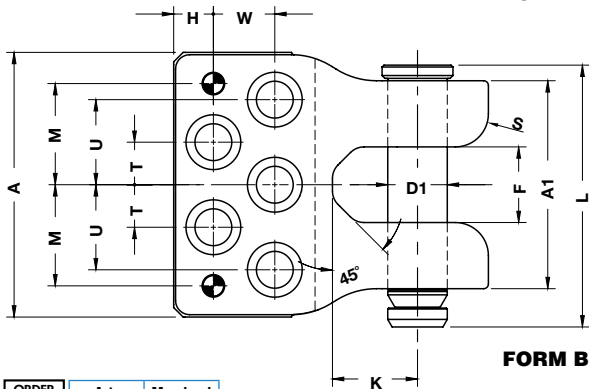
WARNING - ACHTUNG - ATTENZIONE:
 For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.



FORM A



FORM B

Notes

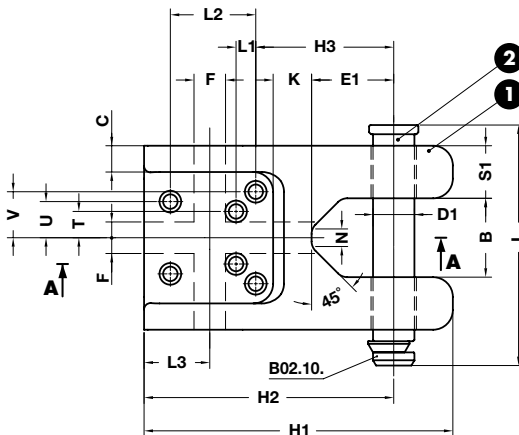
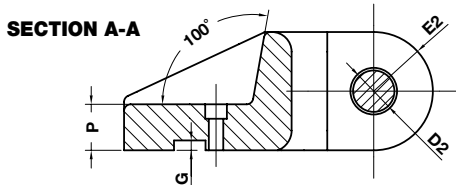
- 1 Material: Si52
- 2 B02.44.
- 3 C11.20.2245

Screws not included

ORDER SAMPLE	Art.	Max load
	B01.24.	12500

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	A	B	B1	C	E	F	H	K	L	M	N	S	T	U	V	W	X	FORM	Screws DIN 912-8.8	
B01.24.08000	8000	16000	50	52	188	177	290	227,5	125	67	75	37,5	80	221	68,5	135	35	31	62	42,5	45	20	A	M24x100
B01.24.12500	12500	25000	63	65	280	220	333	258	150	91	80	42	90	277	107	150	35	45	90	-	65	46	B	M36x120

VDI 3366 LIFTING BRACKET WITH PIN TRAGWANGE MIT TRAGBOLZEN NACH VDI 3366 NORM STAFFA DI SOLLEVAMENTO TIPO VDI 3366 COMPLETA DI PERNO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

1 Material: St52

2 B02.10.

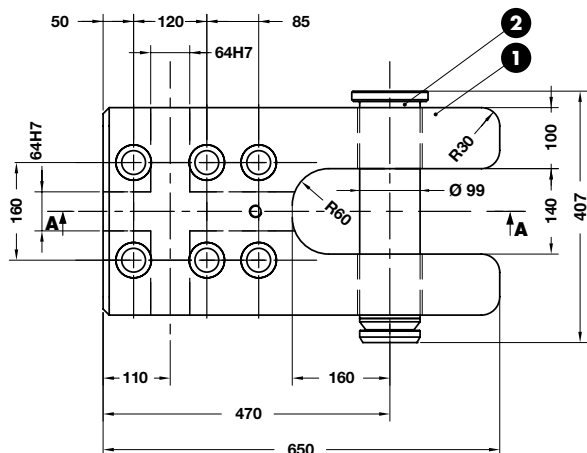
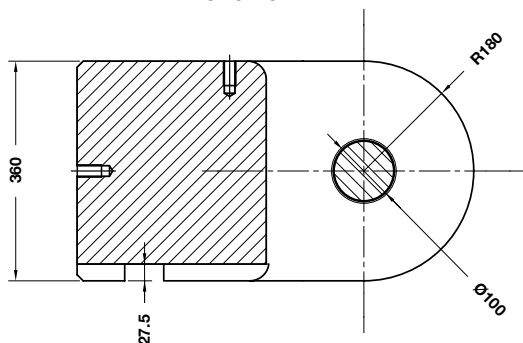
Screws not included

ORDER EXAMPLE	Art.	Max load
	B01.25.	31500

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	B	C	E1	E2	F	G	H1	H2	H3	N	K	L	L1	L2	L3	P	S1	T	U	V	Screws DIN 912 -8.8
B01.25.03200	3200	6400	32	34	60	20	63	40	25	7	260	220	125	28	37	175	30	85	45	40	40	25	30	30	M12x40
B01.25.05000	5000	10000	40	42	80	30	80	60	48	15	360	300	140	28	40	225	35	130	80	60	50	38	40	43	M16x75
B01.25.08000	8000	16000	50	52	100	30	100	60	48	15	380	320	160	28	40	273	35	130	85	70	60	40	55	55	M16x85
B01.25.12500	12500	25000	63	65	120	40	125	90	48	15	470	380	210	28	60	347	30	130	100	70	80	40	55	70	M20x90
B01.25.18000	18000	36000	76	78	140	40	160	90	64	20	510	420	250	45	60	422	20	135	100	90	100	50	75	100	M24x115
B01.25.25000	25000	50000	76	78	140	40	160	120	64	25	590	470	270	45	80	422	35	160	110	110	100	55	75	100	M30x140
B01.25.31500	31500	63000	76	78	140	40	160	130	64	25	600	470	270	45	80	422	35	160	110	120	100	55	75	100	M30x150

LIFTING BRACKET WITH PIN TRAGWANGE MIT TRAGBOLZEN STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO

SECTION A-A



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

Notes

1 **Material:** 42CrMo4

2 B02.45.

Screws not included

	Art.	Max load
	B01.35.	42500

OMCR CODE	Max load (kg)	Max die weight (kg)	Screws DIN 912 - 8.8
B01.35.42500	42500	85000	M36x250

LIFTING PIN VDI 3366 TRAGSCHRAUBE VDI 3366 PERNO DI SOLLEVAMENTO VDI 3366



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

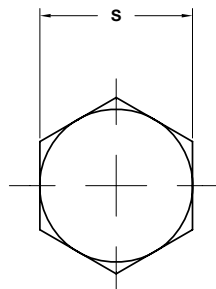
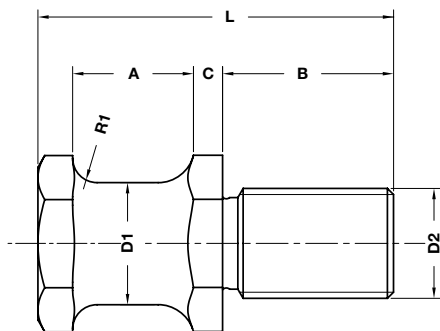
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: CK45
700÷800 N/mm²



ORDER EXAMPLE	Art.	D1=32
	B02.05.	32

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	A	B	C	L	S
B02.05.16	320	640	16	M16	20	28	5,5	58	24
B02.05.20	500	1000	20	M20	22	34	6,5	68	30
B02.05.25	1000	2000	25	M24	25	38	8	78	36
B02.05.32	1500	3000	32	M30	32	45	10	95	41
B02.05.40	2500	5000	40	M36	40	56	12	118	50

LIFTING PIN WITH ROPE SAFETY STOP TRAGSCHRAUBE MIT SEILSICHERUNG PERNO DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE

Patent-Nr.: TO2003A000468



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

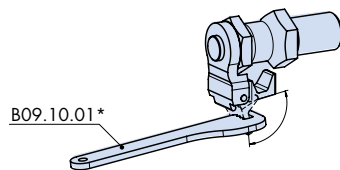
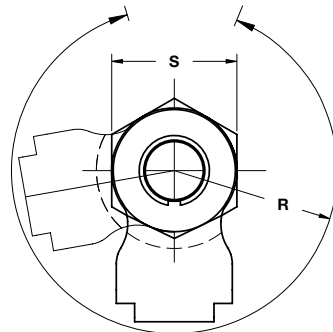
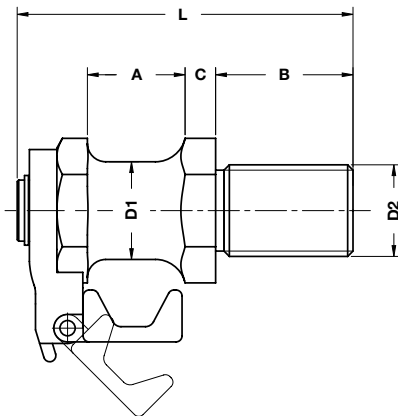
WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: CK45
700÷800 N/mm²



*To open rope safety stop use key B09.10.01

ORDER EXAMPLE	Art.	D1=32
	B02.06.	32

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	A	B	C	L	S	R
B02.06.20	500	1000	20	M20	22	34	6,5	80	30	38
B02.06.25	1000	2000	25	M24	25	38	8	93	36	42
B02.06.32	1500	3000	32	M30	32	45	10	110	41	50
B02.06.40	2500	5000	40	M36	40	56	12	132	50	57

LIFTING PIN VDI 3366 TRAGBOLZEN MIT FALLRINGSICHERUNG VDI 3366 PERNO DI SOLLEVAMENTO VDI 3366



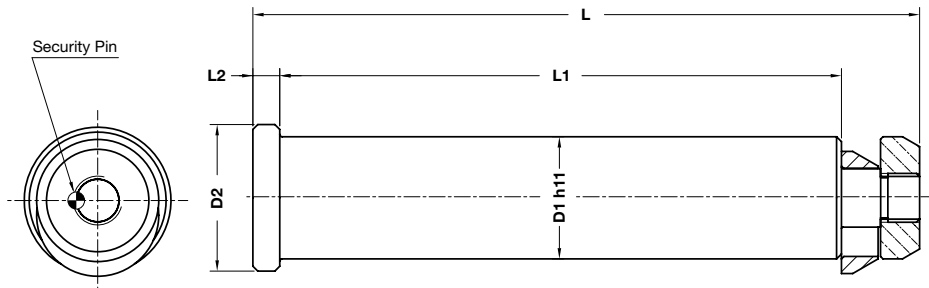
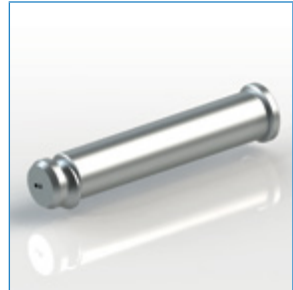
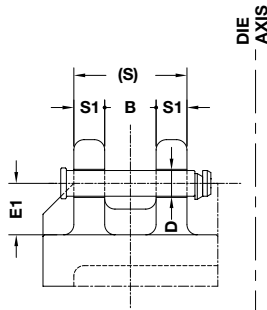
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
VDI3366 ed. 03/1997



ORDER EXAMPLE	Art.	D1=76
	B02.10.	76

OMCR CODE	Max load (kg)	Max die weight (kg)	B	D	D1	D2	E1	L	L1	L2	S	S1	Material
B02.10.32	3200	6400	60	34	32	40	63	175	145	10	140	40	CK45
B02.10.40	5000	10000	80	42	40	50	80	225	188	10	180	50	CK45
B02.10.50	8000	16000	100	52	50	60	100	273	230	11	220	60	CK45
B02.10.63	12500	25000	120	65	63	75	125	347	295	14	280	80	CK45
B02.10.76	31500	63000	140	78	76	95	160	422	360	15	340	100	42CrMo4

LIFTING PIN VW/AUDI TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH VW/AUDI-NORM PERNO DI SOLLEVAMENTO VW/AUDI



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

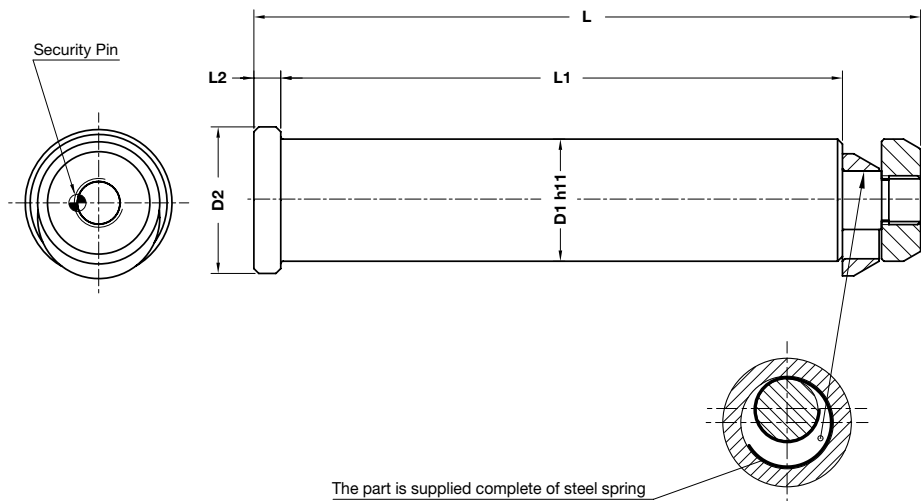
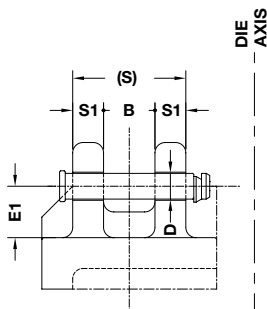
WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
39D866 VW ed. 09/2011



ORDER EXAMPLE	Art.	D1=76
	B02.11.	76

OMCR CODE	Max load (kg)	Max die weight (kg)	B	D	D1	D2	E1	L	L1	L2	S	S1	Material
B02.11.32	3200	6400	60	34	32	40	63	175	145	10	140	40	CK45
B02.11.40	5000	10000	80	42	40	50	80	225	188	10	180	50	CK45
B02.11.50	8000	16000	100	52	50	60	100	273	230	11	220	60	CK45
B02.11.63	12500	25000	120	65	63	75	125	347	295	14	280	80	CK45
B02.11.76	31500	63000	140	78	76	95	160	422	360	15	340	100	42CrMo4

LIFTING PIN FCA TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH FCA NORM PERNO DI SOLLEVAMENTO FCA



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

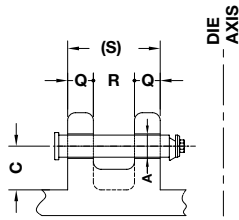
WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

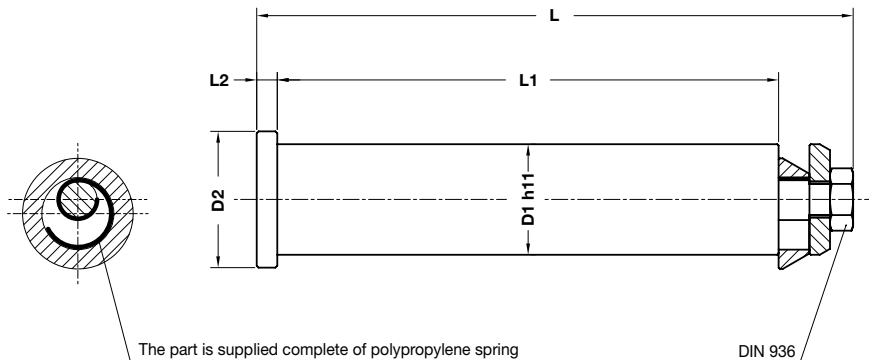
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
STD10060 ED.01/02/2012



Notes

Material: CK45



Art.	D1=53	Type
B02.15.	53	C

OMCR CODE	Max load (kg)	Max die weight (kg)	Type	A	C	D1	D2	L	L1	L2	Q	R	S
B02.15.29	2000	4000	-	30	60	29	38	178,5	150	6	40	60	140
B02.15.33	3200	6400	-	35	65	33	43	200,5	170	6	50	60	160
B02.15.43	5000	10000	-	45	85	43	53	233	195	8	50	80	180
B02.15.53	8000	16000	-	55	105	53	65	282	235	10	60	100	220
B02.15.53C	8000	16000	C	55	75	53	65	227	180	10	50	65	165
B02.15.63	12000	24000	-	65	130	63	78	352,5	295	12	80	120	280
B02.15.63C	13000	26000	C	65	100	63	78	272,5	215	12	60	80	200
B02.15.78	30000	60000	-	81	150	78	95	421,5	355	14	100	140	340

LIFTING PIN FORD TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH FORD NORM PERNO DI SOLLEVAMENTO FORD



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

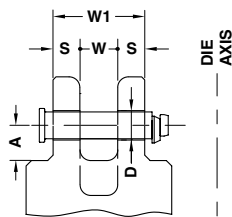
WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

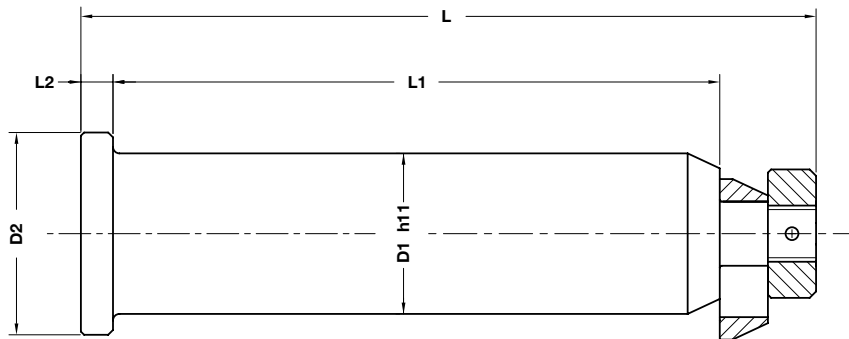
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
W-DX 12-04



Notes

Material: 42CrMo4



ORDER EXAMPLE	Art.	D1=50
	B02.22.	50

OMCR CODE	Max load (kg)	Max die weight (kg)	A	D	D1	D2	L	L1	L2	S	W	W1
B02.22.35	1500	3000	60	37	35	45	165	125	10	30	50	110
B02.22.50	5000	10000	130	52	50	63	230	190	10	50	70	170
B02.22.63	20000	40000	145	65	63	76	320	280	10	80	100	260
B02.22.80	30000	60000	145	82	80	89	370	320	15	100	100	300

LIFTING PIN NISSAN TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH NISSAN NORM PERNO DI SOLLEVAMENTO NISSAN



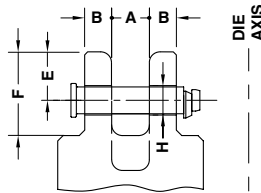
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

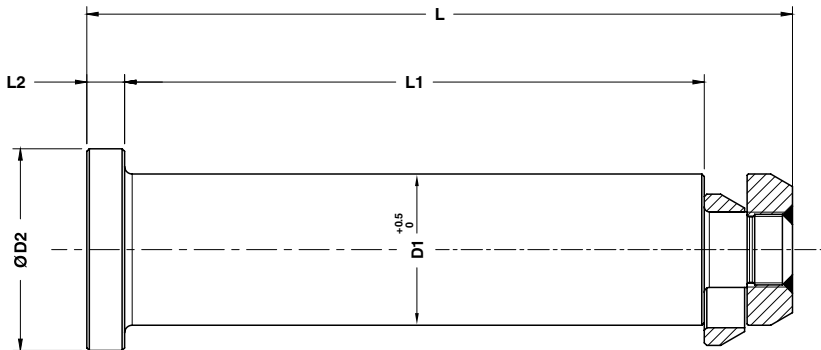
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
KT 140-40÷80



Notes

Material: 42CrMo4



ORDER EXAMPLE	Art.	D1=50
	B02.23.	50

OMCR CODE	Max load (kg)	Max die weight (kg)	A	B	H	D1	D2	E	F	L	L1	L2
B02.23.40	2000	4000	50	50	41,5	40	60	50	110	210	160	15
B02.23.50	3000	6000	70	70	51,5	50	70	75	150	270	220	15
B02.23.60	5000	10000	80	70	61,5	60	80	100	195	280	230	15
B02.23.70	7500	15000	80	80	71,5	70	90	110	210	300	250	15
B02.23.80	10000	20000	90	100	82	80	100	120	230	350	300	15

LIFTING PIN OPEL-GM
TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH OPEL-GM NORM
PERNO DI SOLLEVAMENTO OPEL-GM



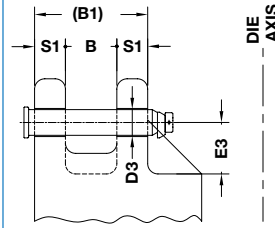
Respect the max load
 Maximale Nutzlast beachten
 Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
 For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

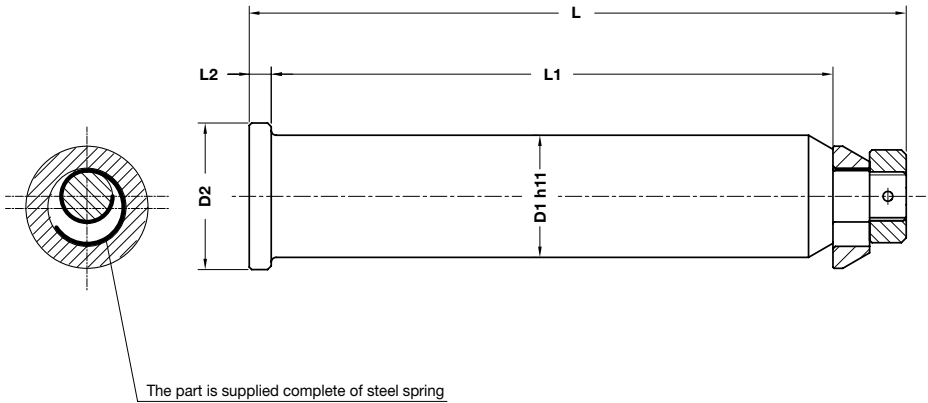
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
 15.30.00 ed. 05/2007



Notes

Material: 42CrMo4



The part is supplied complete of steel spring

ORDER EXAMPLE	Art.	D1=80
	B02.26.	80

OMCR CODE	Max load (kg)	Max die weight (kg)	B	B1	D1	D2	D3	E3	L	L1	L2	S1
B02.26.32	3400	6800	70	150	32	40	34	65	177	155	5	40
B02.26.40	5650	11300	80	180	40	50	42	85	220	188	7	50
B02.26.50	8950	17900	100	220	50	60	52	100	270	230	9	60
B02.26.63	14350	28700	120	280	63	75	65	125	342	295	16	80
B02.26.80	26700	53400	120	320	80	89	82	160	387	335	16	100

**LIFTING PIN PSA-RENAULT
TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH PSA-RENAULT NORM
PERNO DI SOLLEVAMENTO PSA-RENAULT**



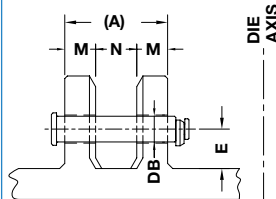
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

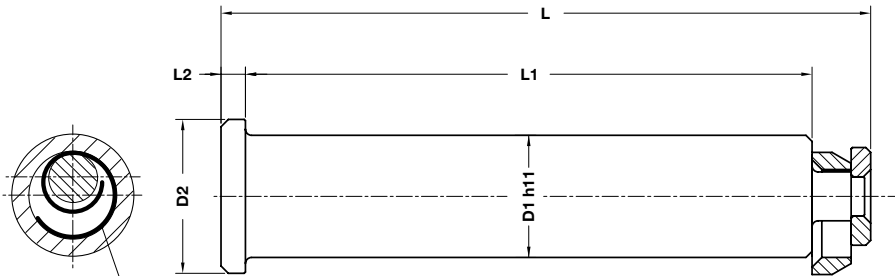
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
EM24.50.400 ed. 07/2006
EM24.59.950 ed. 07/2006



Notes

Material: St52



The part is supplied complete of steel spring

ORDER EXAMPLE	Art.	D1=50
	B02.30.	50

OMCR CODE	Max load (kg)	Max die weight (kg)	A	E	DB	D1	D2	L	L1	L2	M	N
B02.30.32	6000	12000	125	55	34	32	40	154	132	6	37,5	50
B02.30.40	9000	18000	160	70	42	40	50	197,5	170	8	47,5	65
B02.30.50	14000	28000	200	90	52	50	63	247,5	212	10	60	80
B02.30.63	22500	45000	250	100	65	63	80	309	265	12	75	100

LIFTING PIN VOLVO TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH VOLVO NORM PERNO DI SOLLEVAMENTO VOLVO



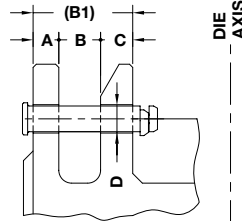
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

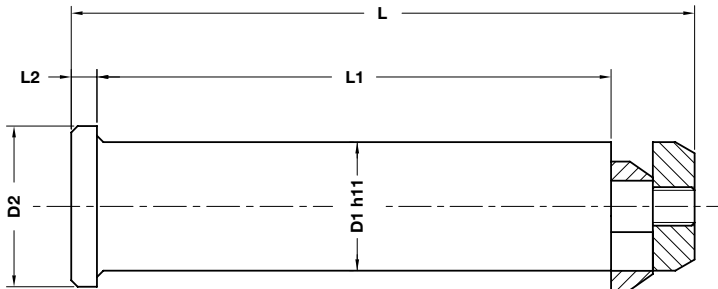
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

According - Nach - Secondo:
BCD8271,81 01/2015



Notes

Material: St52



ORDER EXAMPLE	Art.	D1=63	Type
	B02.35.	63	C

OMCR CODE	Max load (kg)	Max die weight (kg)	Type	A	B	B1	C	D	D1	D2	E	L	L1	L2
B02.35.40	2500	5000	-	40	65	155	50	42	40	50	100	195	160	8
B02.35.63C	8000	16000	C	60	100	220	60	65	63	75	125	285	230	14
B02.35.63	12000	24000	-	80	100	260	80	65	63	75	125	327	275	14
B02.35.80	20000	40000	-	100	120	320	100	82	80	95	180	402	340	15

REPLACEMENT LIFTING PIN FOR LIFTING BRACKET BMW ERSATZTRAGBOLZEN FÜR TRAGWANGE BMW PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO BMW



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

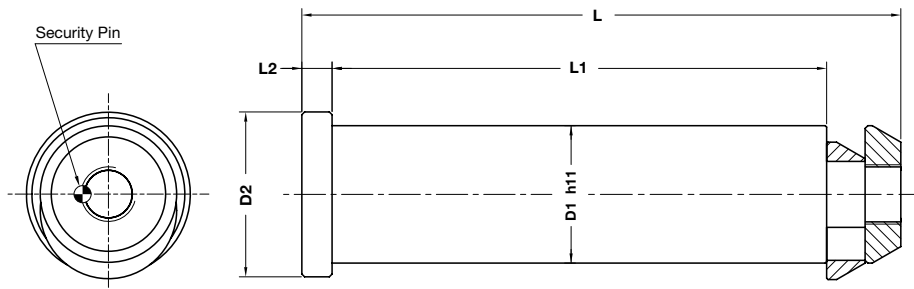
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material:

See table - siehe Tabelle - vedi tabella



	Art.	D1=80	Type
	B02.40.	80	A

OMCR CODE	Max load (kg)	Max die weight (kg)	Type	D1	D2	L	L1	L2	Material
B02.40.30	3200	6400	-	30	40	158	129	10	CK45
B02.40.40	5000	10000	-	40	50	187	155	10	CK45
B02.40.50	8000	16000	-	50	60	220	180	11	CK45
B02.40.60	12500	25000	-	60	70	246	205	11	CK45
B02.40.80	18000	36000	-	80	90	305	255	12	CK45
B02.40.80A	25000	50000	A	80	90	360	310	12	42CrMo4
B02.40.80B	31500	63000	B	80	90	405	355	22	42CrMo4

REPLACEMENT LIFTING PIN FOR LIFTING BRACKET FCA ERSATZTRAGBOLZEN FÜR TRAGWANGE FCA PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO FCA



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

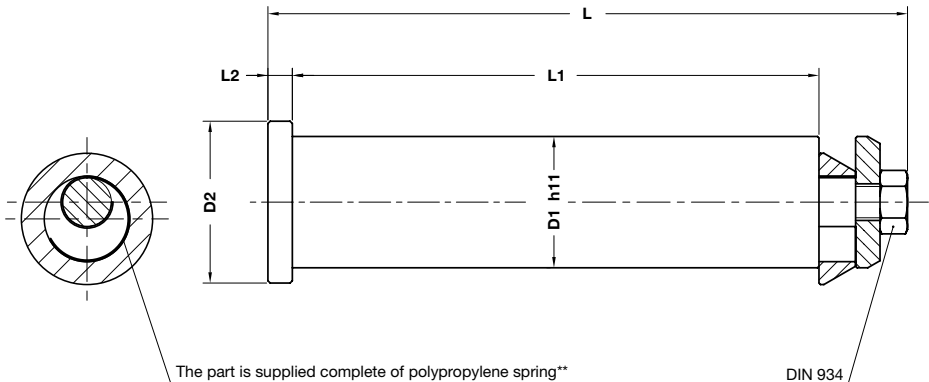
WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: CK45



ORDER EXAMPLE	Art.	D1=%%
	B02.42.	%%

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	L	L1	L2
B02.42.15	600	1200	15,6	25	102,5	77	6
B02.42.20	1000	2000	20,6	30	113,5	86	6
B02.42.25	2000	4000	25,6	35	128,5	100	6
B02.42.33	4000	8000	33	43	166,5	135	6
B02.42.43	7000	14000	43	53	210,5	175	8

REPLACEMENT LIFTING PIN FOR VW/AUDI LIFTING BRACKET ERSATZTRAGBOLZEN FÜR TRAGWANGE VW/AUDI PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO VW/AUDI



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

WARNING - ACHTUNG - ATTENZIONE:

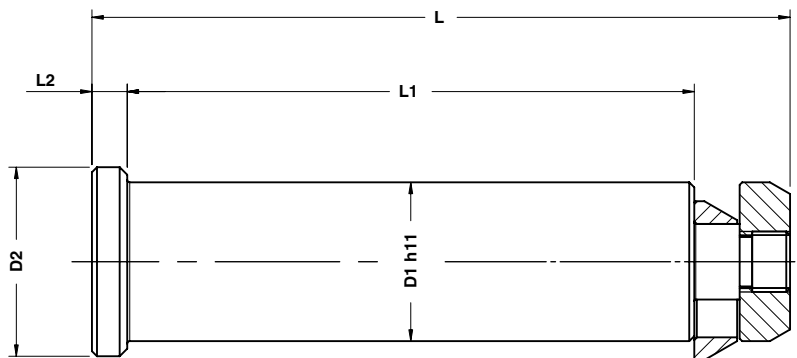
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

Material: CK45



	Art.	D1
	B02.44.	63

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	L	L1	L2
B02.44.50	8000	16000	50	60	221	182	11
B02.44.63	12500	25000	63	75	277	225	14

REPLACEMENT LIFTING PIN FOR LIFTING BRACKET B01.35 ERSATZTRAGBOLZEN FÜR TRAGWANGE B01.35 PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO B01.35



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

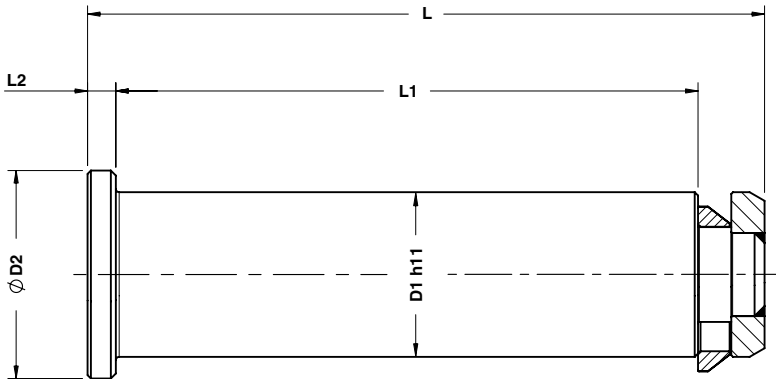
WARNING - ACHTUNG - ATTENZIONE:
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

Notes

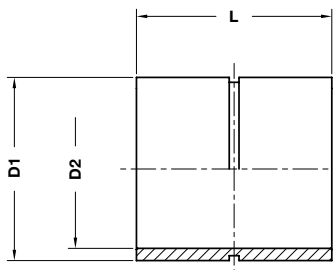
Material: 42CrMo4



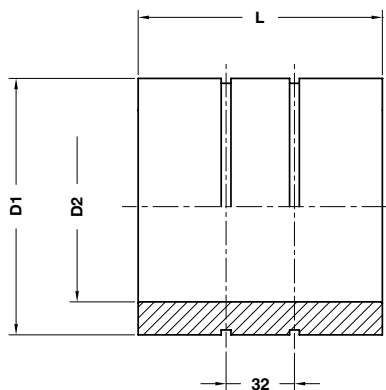
	Art.	D1
	B02.45.	100

OMCR CODE	Max load (kg)	Max die weight (kg)	D1	D2	L	L1	L2
B02.45.100	42500	85000	99	125	407	350	17

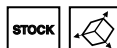
BUSH FOR LIFTING PIN VDI-BAK BUCHSE FÜR TRAGBOLZEN VDI-BAK BOCCOLA PER PERNO DI SOLLEVAMENTO VDI-BAK



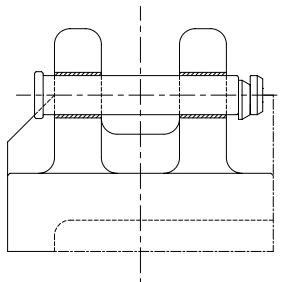
FORM A



FORM B



Application Example



Notes

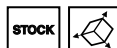
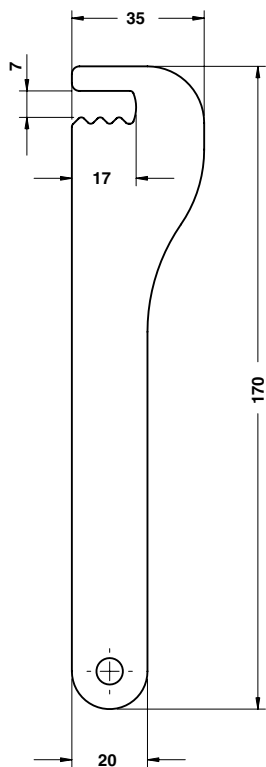
Material: Si37



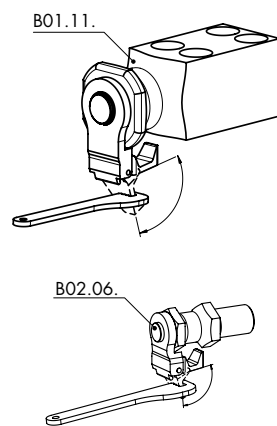
Art.	D1	D2	L
B08.11.	044	34	040

OMCR CODE	D1	D2	L	FORM
B08.11.04434040	44	34	40	A
B08.11.05242050	52	42	50	A
B08.11.06252060	62	52	60	A
B08.11.07565080	75	65	80	A
B08.11.10078100	100	78	100	B
B08.11.10578100	105	78	100	B

ROPE SAFETY STOP OPENING KEY
SCHLÜSSEL FÜR SEILSICHERUNG
CHIAVE PER APERTURA SICUREZZA FERMAFUNNE



Application Example



Notes

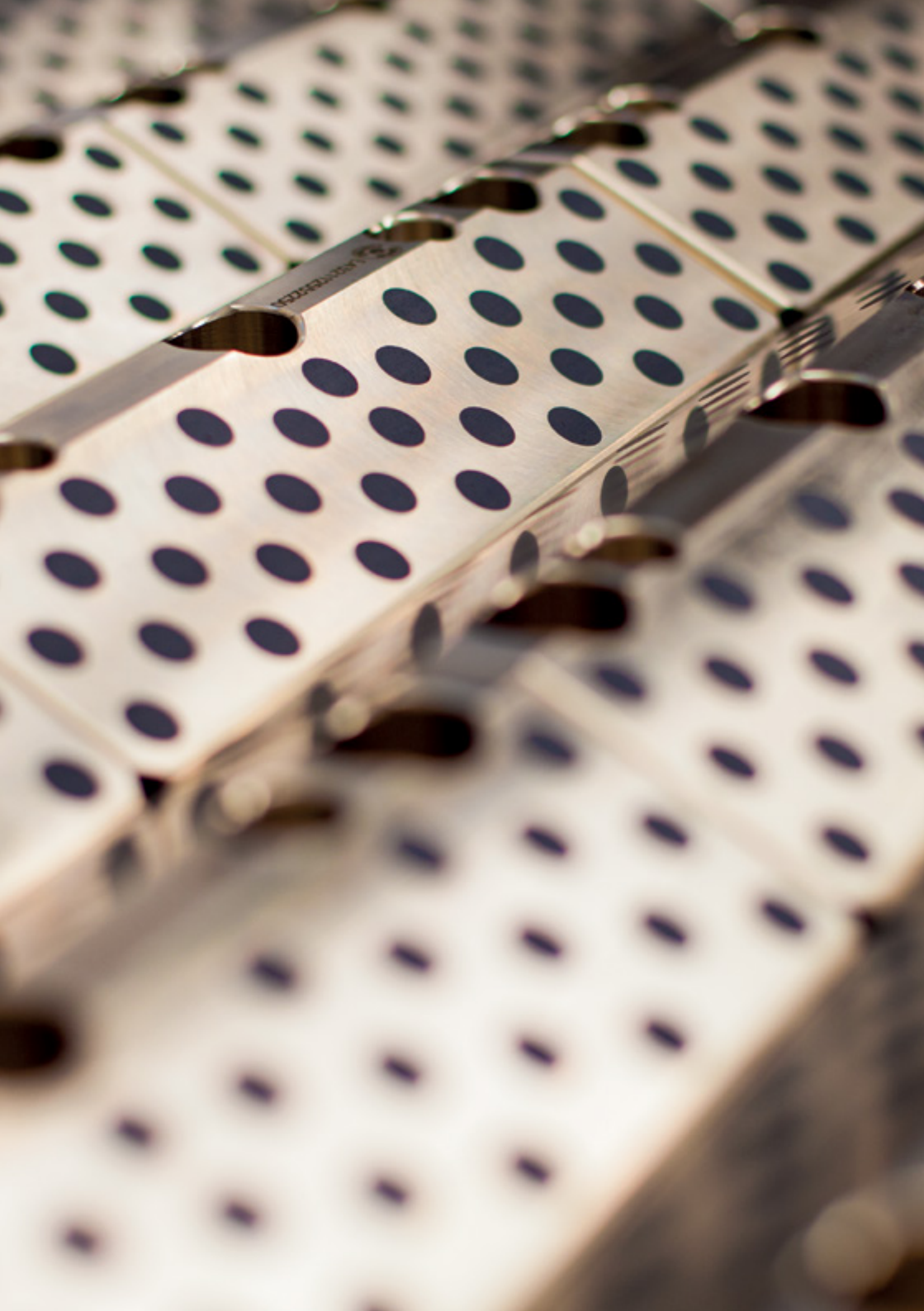
Material: CK45
 To use for B01.11. - B02.06.



Art.
B09.10.01

OMCR CODE

B09.10.01





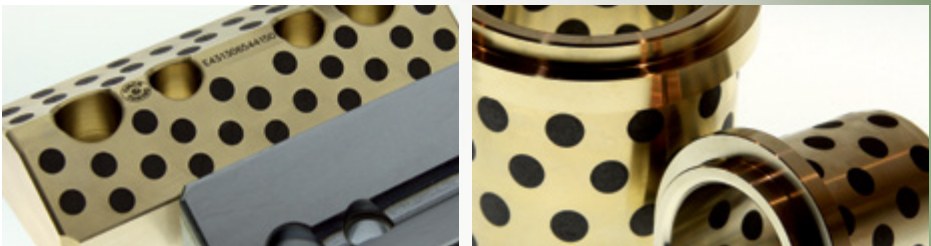
**SLIDING ELEMENTS
FÜHRUNGSELEMENTE
SISTEMI DI GUIDA**

Sliding Elements

Ⓞ The **Sliding Elements** line offers an extraordinary variety of items in order to satisfy all requirements of design and construction of sheet metal working dies. Bushes, guide posts, plates, drivers, etc. are produced according to **AFNOR, DIN, NAAMS, VDI, norms**, with high-quality materials and strict inspections, to ensure the reliability which distinguishes our products.

Ⓞ Die Linie der **Führungselemente** bietet eine einzigartige Artikelvielfalt, die alle Anforderungen an die Konstruktion und Herstellung von Stanzwerkzeugen abdeckt. Unsere Führungsbuchsen, Führungssäulen, Gleitplatten, Prismenführungen usw. werden alle gemäß den **AFNOR, DIN, NAAMS, VDI, Normen** aus qualitativ hochwertigen Materialien hergestellt und unterliegen strengen Kontrollen zur Gewährleistung der Qualität, die unsere Produkte auszeichnet.

Ⓞ La gamma **Sistemi di Guida** offre un'ampia varietà di articoli in grado di rispondere a tutte le esigenze della progettazione e costruzione di stampi per lavorazione lamiera. Boccole, colonne, piastre, guide, ecc., sono tutte realizzate nel rispetto delle **norme AFNOR, DIN, NAAMS, VDI**, con materiali di qualità e severi collaudi per garantire quella affidabilità che contraddistingue i nostri prodotti.





Norms: AFNOR - DIN - NAAMS - VDI

GB GENERALITY.

The planning of **OMCR** self-lubricating products offers the technical help to solve sliding problems related to mechanical devices, dies and tools with a solution which is normalized, simple, functional and reliable.

RELIABILITY: **OMCR** self-lubricating products support high loads, they are long-lasting, they require a little maintenance and they remove assembly problems.

COSTS REDUCTION: With **OMCR** self-lubricating products the expensive lubricating centralized systems are not longer necessary, maintenance time is lowered and as well the purchase costs, the operating costs and the lubricating disposal are brought down.

USE: **OMCR** self-lubricating products offer the best performances together with the hardened steel (**Hardness > 55 HRC**).

It should be worthwhile that the surfaces matched have got a good finished surface (**Ra 0.8/ Rz 6.3**) and that there are not sharp edges present which could eventually cause notching. An initial lubrication with saponified fat made by lithium and lubrications every **~100000 cycles** otherwise in case of cleaning or long off cycle, guarantee the life of the sliding elements.

PRINCIPLE.

Self-lubricating products **OMCR** consist of a metal base in which is inserted the lubricant. During the working phase, the lubricant emits some particles which set between the sliding

surfaces, whereby a film is mould, which reduces the wear by preventing a direct contact of the sliding surfaces, like a conventional lubricant.

BRONZE-GRAPHITE PRODUCTS (Pic.01): they consist of a bronze-aluminum base in which is inserted the solid lubricant in form of sintered graphite cylinders oil-impregnated.

They offer high wear resistance; the disposition of graphite makes it possible sliding in one or two directions.

SINTERED PRODUCTS (Pic.02): they consist in a steel metal base on which is applied a layer (thickness 2 mm) of sintered and porous bronze alloy that contain solid lubricants (graphite and MoS₂) and liquid lubricant (oil) dispersed in homogeneous mode at microscopic level. Thus contact surface is more extensive thanks to the lack of the graphite cylinders and the self-lubricating effect is greatly improved.

Self-lubricating sintered products offer higher performance than traditional bronze- graphite products (higher speed, higher specific pressure, increased $P * V$, greater working temperature range) and allow sliding in all directions with the same effectiveness. The higher performance of the self-lubricating sintered products **OMCR** allow to realize sliding more compact than traditional self-lubricating bronze-graphite products.

NOTE: If thickness adjustment is necessary, machine steel backing side and not the sintered layer.

Technical property - Technische Eigenschaften - Caratteristiche tecniche

TECHNICAL PROPERTY	MATERIAL	
	Sintered	Bronze / Graphite
Max. specific pressure P (N/mm ²)	300	100
Max. sliding speed V (m/min)	40	15
Max. output PV (N/mm ² * m/min)	300	200
Working temperature range T (°C)	-40÷250	-40÷150
Coefficient of friction Vs Steel μ	0.05÷0.15	0.05÷0.15

Ⓧ ALLGEMEINES.

Unsere selbstschmierenden **OMCR** Produkte sollen dem Konstrukteur helfen, das Problem des Gleitens in Maschinen, Stanzwerkzeugen und Vorrichtungen mit einer genormten, einfachen, funktionalen und zuverlässigen Lösung zu lösen.

ZUVERLÄSSIGKEIT: Die selbstschmierenden **OMCR** Produkte nehmen hohe Lasten auf, haben eine lange Lebensdauer, erfordern wenig Instandhaltung und lassen sich einfach montieren.

KOSTENREDUZIERUNG: Die selbstschmierenden Produkte von **OMCR** benötigen keine teuren Zentralschmieranlagen, die Instandhaltungsstunden und die Kosten für Einkauf, Steuerung und Entsorgung von Schmierstoffen entfallen.

VERWENDUNG: Die selbstschmierenden Produkte von OMCR bieten beste Leistung in Kombination mit gehärtetem Stahl (**Härte >55 HRC**). Die Gleitflächen sollten eine niedrige Oberflächenrauigkeit (**Ra 0.8/ Rz 6.3**) haben und keine scharfen Kanten aufweisen, die Kerbwirkung erzielen können. Eine Anfangsschmierung **mit Lithiumfett** und eine Schmierung alle **~100.000 Zyklen** oder nach langen Standzeiten bzw. Reinigung gewährleisten eine höhere Lebensdauer der Gleitelemente

PRINZIP.

Die selbstschmierenden Produkte von **OMCR** bestehen aus einem Träger aus Metall, auf den ein Schmierstoff aufgebracht wird. Beim Gleiten wird der Schmierstoff freigesetzt, verteilt sich zwischen den Gleitflächen und bildet einen Film, der dadurch dass er deren direkten Kontakt unterbindet die Abnutzung auf das Niveau einer herkömmlichen Schmierung reduziert.

PRODUKTE AUS BRONZE/FESTSCHMIERSTOFF

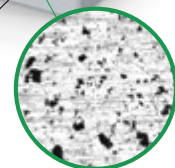
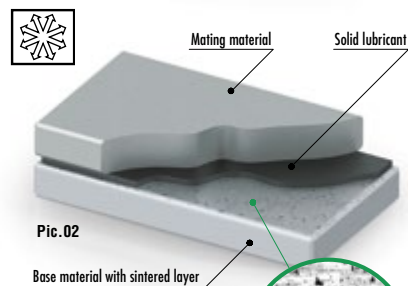
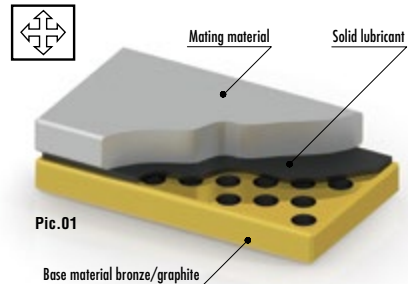
(Pic.01): Sie bestehen aus einem Träger aus Bronze-Aluminium, in den fester Schmierstoff in Form von gesinterten und mit Öl imprägnierten Graphitzylindern eingesetzt wird. Sie bieten hohe Abriebfestigkeit. Die Anordnung der Graphiteinlagen ermöglicht das Gleiten in eine oder zwei Richtungen.

SINTERPRODUKTE (Pic.02): Sie bestehen aus einem Träger aus Stahl, auf den eine 2 mm dicke Schicht aus Sinterbronzelegierung mit poröser Struktur aufgebracht wird, die festen Schmierstoff (Graphit und MoS₂) und flüssigen

Schmierstoff (Öl) enthält, welche homogen mikroskopisch verteilt sind. Die Kontaktfläche aus Metall wird durch das Fehlen der Graphiteinsätze größer und die selbstschmierende Wirkung erheblich verbessert. Die **selbstschmierenden Sinterprodukte** von **OMCR** bieten bessere Leistungen als die herkömmlichen Produkte aus Bronze/Festschmierstoff (höhere Geschwindigkeit, größerer spezifischer Druck, größer PV-Wert, breiterer Betriebstemperatur-Einsatzbereich) und ermöglichen ein Gleiten in alle Richtungen mit derselben Wirkung.

Die besseren Leistungen der **selbstschmierenden Sinterprodukte** von **OMCR** gestatten die Gestaltung von kompakteren Gleitelementen gegenüber den herkömmlichen selbstschmierenden Produkten aus Bronze mit Festschmierstoff.

Anmerkung: Eventuell erforderliche Anpassungsarbeiten sind auf der Stahlseite und nicht auf der Sinterbronzeschicht auszuführen!



① GENERALITÀ.

Il programma di prodotti autolubrificanti **OMCR** si propone di aiutare i progettisti nel risolvere il problema degli scorrimenti nelle apparecchiature meccaniche, stampi e attrezzature, con una soluzione normalizzata, semplice, funzionale e affidabile.

AFFIDABILITÀ: I prodotti autolubrificanti **OMCR** sopportano alti carichi, hanno una lunga durata, richiedono poca manutenzione ed eliminano gli inconvenienti al montaggio.

RIDUZIONE DEI COSTI: Con gli autolubrificanti **OMCR** non sono necessari i costosi impianti di lubrificazione centralizzata, si riducono le ore di manutenzione e i costi per l'acquisto, la gestione e lo smaltimento dei lubrificanti.

USO: I prodotti autolubrificanti **OMCR** offrono le migliori prestazioni in accoppiamento con acciaio temprato (**Durezza >55 HRC**).

È opportuno che le superfici in accoppiamento abbiano una buona finitura superficiale (**Ra 0.8/ Rz 6.3**) e che non siano presenti spigoli vivi tali da generare effetti di intaglio. Una lubrificazione iniziale, con **grasso saponificato al litio**, e lubrificazioni a intervalli di **~100000 cicli** o in caso di lavaggi o soste prolungate garantiscono la durata degli elementi di scorrimento.

PRINCIPIO.

I prodotti autolubrificanti **OMCR** sono costituiti da una base in metallo nella quale viene inserito il lubrificante. Durante la fase di lavoro, il lubrificante viene rilasciato e si dispone tra le superfici in scorrimento, formando così un film

che, impedendo il contatto diretto, riduce l'usura al pari di una lubrificazione tradizionale.

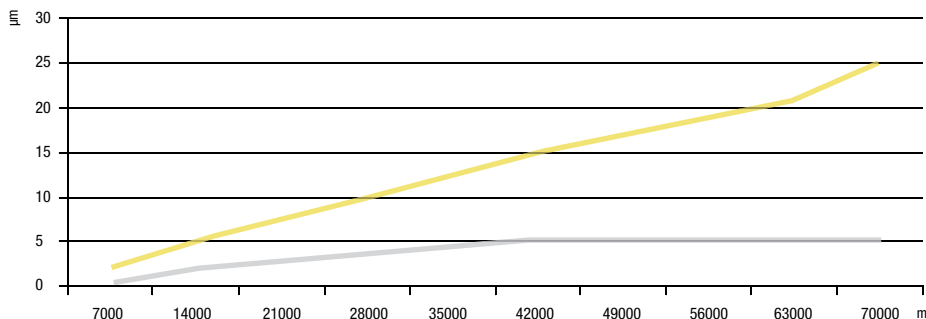
PRODOTTI IN BRONZO-GRAFITE (Pic.01): sono costituiti da una base in bronzo-alluminio nella quale viene inserito il lubrificante solido sotto forma di cilindri di grafite sinterizzata e impregnata di olio. Offrono elevata resistenza all'usura; la disposizione degli inserti in grafite rende possibile lo scorrimento in una o due direzioni.

PRODOTTI IN SINTERIZZATO (Pic.02): sono costituiti da una base in acciaio sulla quale è applicato uno strato di 2 mm in lega di bronzo sinterizzato con struttura porosa che ingloba del lubrificante solido (grafite e MoS₂) e del lubrificante liquido (olio) dispersi in modo omogeneo a livello microscopico, la superficie di contatto risulta quindi più ampia per la mancanza degli inserti in grafite e l'effetto autolubrificante è notevolmente migliorato.

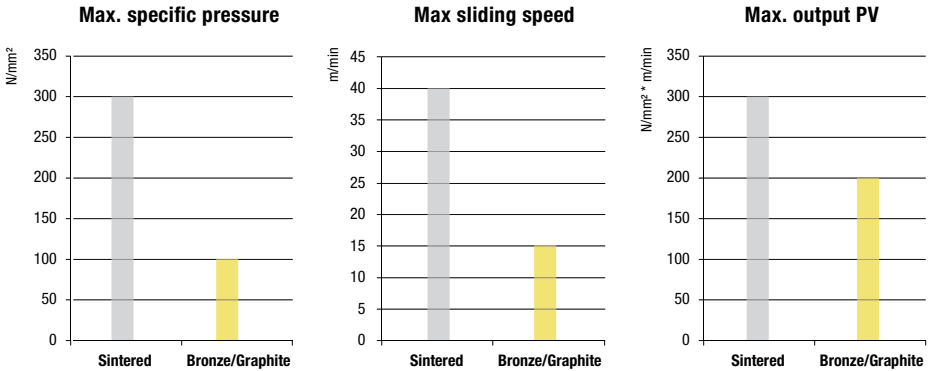
I **prodotti autolubrificanti in sinterizzato** offrono maggiori prestazioni rispetto ai tradizionali prodotti in bronzo/grafite Pic.03 e Pic.04 (maggiore velocità, maggiore pressione specifica, maggiore P*V, maggiore gamma di temperature di esercizio) e permettono lo scorrimento in tutte le direzioni con la stessa efficacia. Le maggiori performance dei prodotti autolubrificanti in sinterizzato **OMCR** permettono di realizzare scorrimenti più compatti rispetto ai tradizionali prodotti autolubrificanti in bronzo-grafite.

NOTA: gli eventuali adattamenti sono da effettuare sulla base in acciaio e non sul riporto sinterizzato.

Wear amount in opposition to Steel HRC 58÷60 P*V=200

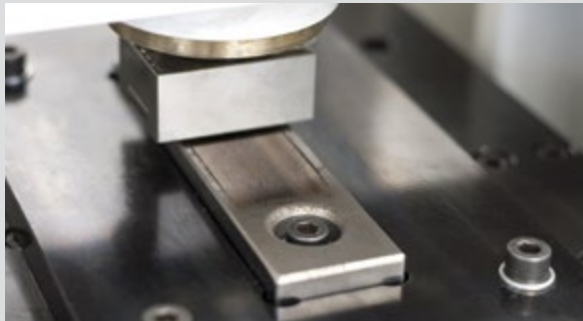


Pic.03



Pic.04

LINEAR TRIBOMETER - LINEARES TRIBOMETER - TRIBOMETRO LINEARE


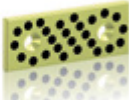

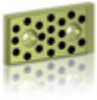


















GB OMCR has designed and built, for its research centre, a **LINEAR TRIBOMETER** (Patent Pending) to determine the specific pressure and speed limits of the different materials in different combinations and in different conditions of lubrication. This tool allows us to foresee the wear phenomena and the efficacy of the self-lubricating products by simulating actual operating conditions and constantly monitoring the flow speed, the specific pressures, the friction coefficient and the operating temperature.






D OMCR hat für ihr hauseigenes Entwicklungszentrum ein **LINEARES TRIBOMETER** (Patent Pending) entwickelt, um die Grenzen des spezifischen Drucks und der Geschwindigkeit der diversen Materialien in verschiedenen Kombinationen und unter unterschiedlichen Bedingungen der Schmierung bestimmen zu können. Mit diesem Messinstrument kann die Abnutzung und die Wirksamkeit von selbstschmierenden Produkten durch Simulation der effektiven Arbeitsbedingungen und konstante Überwachung der Gleitgeschwindigkeit, der Flächenpressung, des Reibungskoeffizienten und der Betriebstemperatur bestimmt werden.






I La OMCR ha progettato e costruito per il proprio centro ricerche un **TRIBOMETRO LINEARE** (Patent Pending) per determinare i limiti di pressione specifica e velocità dei diversi materiali in differenti combinazioni e in diverse condizioni di lubrificazione. Questo strumento consente di prevedere i fenomeni di usura e l'efficacia dei prodotti autolubrificanti simulando le effettive condizioni di lavoro e monitorando costantemente la velocità di scorrimento, le pressioni specifiche, il coefficiente di attrito e la temperatura di esercizio.

Sliding Elements

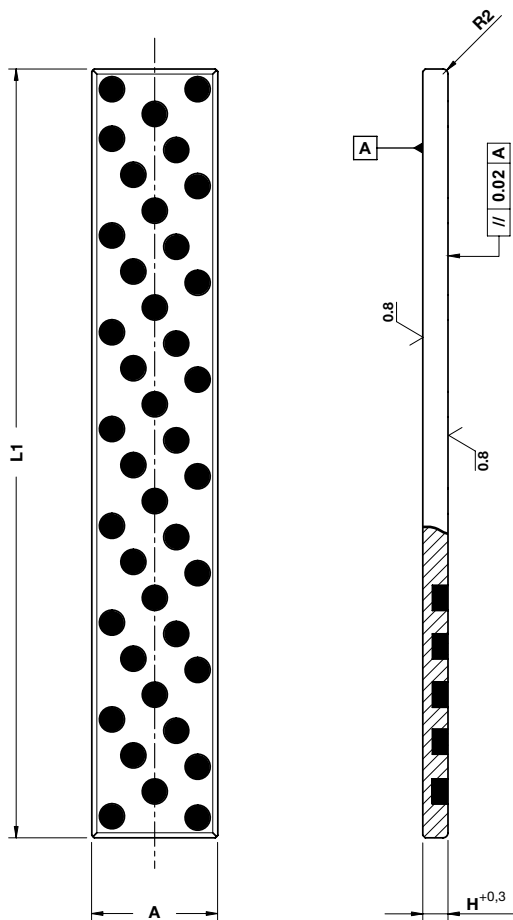
<p>E40.02</p> 	<p>E40.04</p> 	<p>E40.05</p> 	<p>E40.06</p> 	<p>E40.07</p> 
<p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>958</p>	<p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>960</p>	<p>Wear plate self-lubricating Flachleiste Piastra guida autolubrificante</p> <p>962</p>	<p>VDI 3357</p> <p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>964</p>	<p>VDI 3357</p> <p>Wear plate steel Gleitplatte Stahl Piastra guida in acciaio</p> <p>966</p>
<p>E40.08</p> 	<p>E40.10</p> 	<p>E40.11</p> 	<p>E40.12</p> 	<p>E40.13</p> 
<p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>968</p>	<p>FCA</p> <p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>970</p>	<p>FCA</p> <p>Wear plate steel Gleitplatte Stahl Piastra guida in acciaio</p> <p>971</p>	<p>VDI 3357</p> <p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>972</p>	<p>VDI 3357</p> <p>Wear plate steel Gleitplatte Stahl Piastra guida in acciaio</p> <p>974</p>
<p>E40.14</p> 	<p>E40.15</p> 	<p>E40.16</p> 	<p>E40.18</p> 	<p>E40.20</p> 
<p>AFNOR</p> <p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>976</p>	<p>AFNOR</p> <p>Wear plate steel Gleitplatte Stahl Piastra guida in acciaio</p> <p>978</p>	<p>AFNOR</p> <p>Wear plate steel Gleitplatte Stahl Piastra guida in acciaio</p> <p>980</p>	<p>VDI 3357</p> <p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>982</p>	<p>FCA</p> <p>Distance plate for wear plate Höhenausgleich für Gleitplatte Distanziale per piastra</p> <p>984</p>
<p>E40.21</p> 	<p>E40.22</p> 	<p>E40.30</p> 	<p>E40.35</p> 	<p>E40.40</p> 
<p>VDI 3357</p> <p>Distance plate for wear plate Höhenausgleich für Gleitplatte Distanziale per piastra</p> <p>986</p>	<p>Distance plate for "V" driver Höhenausgleich für Prismenführung Distanziale per guida a "V"</p> <p>988</p>	<p>Wear plate steel Deckleiste Stahl Piastra guida in acciaio</p> <p>990</p>	<p>Wear plate self-lubricating Gleitplatte Stahl mit Festschmierstoff Piastra guida autolubrificante</p> <p>992</p>	<p>Wear plate self-lubricating Gleitplatte Bronze mit Festschmierstoff Piastra guida autolubrificante</p> <p>994</p>

<p>E40.42</p>	<p>E41.10</p>	<p>E41.11</p>	<p>E42.10</p>	<p>E42.11</p>
<p>VW-AUDI</p>	<p>FCA</p>	<p>VDI 3357</p>	<p>FCA</p>	<p>FCA</p>
<p>Wear plate Schieberführung Piastra guida</p>	<p>Angular guide self-lubricating Winkelleiste Bronze mit Festschmierstoff Piastra angolare autolubrificante</p>	<p>Angular guide self-lubricating Winkelleiste Bronze mit Festschmierstoff Piastra angolare autolubrificante</p>	<p>Guide bar self-lubricating Führungsleite Bronze mit Festschmierstoff Lardone autolubrificante</p>	<p>Guide bar steel Führungsleite Stahl Lardone in acciaio</p>
<p>996</p>	<p>998</p>	<p>1000</p>	<p>1002</p>	<p>1003</p>
<p>E42.12</p>	<p>E42.13</p>	<p>E42.15</p>	<p>E43.12</p>	<p>E43.13</p>
<p>VDI 3357</p>	<p></p>	<p></p>	<p>VDI 3357</p>	<p>VDI 3357</p>
<p>Guide bar self-lubricating Führungsleite Bronze mit Festschmierstoff Lardone autolubrificante</p>	<p>Guide bar self-lubricating Führungsleite Stahl mit Festschmierstoff Lardone in acciaio autolubrificante</p>	<p>Guide bar self-lubricating Führungsleite Bronze mit Festschmierstoff Lardone autolubrificante</p>	<p>"V" driver steel Prismenführung Guida a "V" in acciaio</p>	<p>"V" driver self-lubricating Prismenführung Bronze mit Festschmierstoff Guida a "V" autolubrificante</p>
<p>1004</p>	<p>1006</p>	<p>1008</p>	<p>1009</p>	<p>1010</p>
<p>E43.20</p>	<p>E43.21</p>	<p>E43.25</p>	<p>E43.26</p>	<p>E43.27</p>
<p></p>	<p></p>	<p></p>	<p></p>	<p></p>
<p>"V" driver steel Prismenführung Guida a "V" in acciaio</p>	<p>"V" driver self-lubricating Prismenführung Bronze mit Festschmierstoff Guida a "V" autolubrificante</p>	<p>"V" driver set Prismenführung gruppe Set di guide a "V"</p>	<p>"V" driver set Prismenführung gruppe Set di guide a "V"</p>	<p>Positive return Zwangsrückholer Gancio</p>
<p>1011</p>	<p>1012</p>	<p>1013</p>	<p>1014</p>	<p>1015</p>
<p>E43.30</p>	<p>E43.31</p>	<p>E44.10</p>	<p>E44.11</p>	<p>E44.12</p>
<p></p>	<p></p>	<p>GM</p>	<p>GM</p>	<p>VDI 3357</p>
<p>"V" driver self-lubricating Prismenführung Bronze mit Festschmierstoff Guida a "V" autolubrificante</p>	<p>"V" driver steel Prismenführung Guida a "V" in acciaio</p>	<p>Cam dwell wear plate self-lubricating Überlaufkeile Bronze mit Festschmierstoff Cuneo autolubrificante</p>	<p>Cam dwell wear plate steel Überlaufkeile Stahl Cuneo in acciaio</p>	<p>Cam dwell wear plate self-lubricating Überlaufkeile Bronze mit Festschmierstoff Cuneo autolubrificante</p>
<p>1016</p>	<p>1017</p>	<p>1018</p>	<p>1020</p>	<p>1022</p>

<p>E44.13</p> 	<p>E45.10</p> 	<p>E45.10F</p> 	<p>E45.10W</p> 	<p>E45.11</p> 
<p>VDI 3357</p>	<p>DIN 9833</p>	<p>DIN 9833 - FCA</p>	<p>DIN 9833</p>	<p>NAAMS</p>
<p>Cam dwell wear plate steel Überlaufkeile Stahl Cuneo in acciaio</p>	<p>Guide post Führungssäule Colonna</p>	<p>Guide post Führungssäule Colonna</p>	<p>Guide post Führungssäule Colonna</p>	<p>Guide post Führungssäule Colonna</p>
<p>1024</p>	<p>1026</p>	<p>1028</p>	<p>1030</p>	<p>1032</p>
<p>E45.12</p> 	<p>E45.30</p> 	<p>E45.31</p> 	<p>E46.10</p> 	<p>E46.11</p> 
<p>AFNOR</p>			<p>DIN 9834</p>	<p>NAAMS</p>
<p>Guide post Führungssäule Colonna</p>	<p>Guide post endwise bolt-on type Führungssäule zum Anschrauben Colonna da avvitare</p>	<p>Guide post with collar Führungssäule mit Bund Colonna con collare</p>	<p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p>	<p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p>
<p>1034</p>	<p>1036</p>	<p>1038</p>	<p>1040</p>	<p>1042</p>
<p>E46.12</p> 	<p>E46.20</p> 	<p>E46.22</p> 	<p>E46.30</p> 	<p>E46.31</p> 
<p>AFNOR</p>				
<p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p>	<p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p>	<p>Bush self-lubricating Führungsbuchse Boccola autolubrificante</p>	<p>Bush bronzeplated Führungsbuchse mit Bund bronzeplattiert Boccola con riporto in bronzo</p>	<p>Bush bronzeplated Führungsbuchse mit Bund bronzeplattiert Boccola con riporto in bronzo</p>
<p>1044</p>	<p>1046</p>	<p>1048</p>	<p>1050</p>	<p>1052</p>
<p>E46.32</p> 	<p>E47.10</p> 	<p>E47.11</p> 	<p>E47.12</p> 	<p>E47.13</p> 
<p>AFNOR</p>	<p>DIN 9834</p>	<p>NAAMS</p>	<p>AFNOR</p>	<p>AFNOR</p>
<p>Bush bronzeplated Führungsbuchse mit Bund bronzeplattiert Boccola con riporto in bronzo</p>	<p>Toe clamp for bush self- lubricating Haltestück für Buchse Ritegno per boccola autolubrificante</p>	<p>Toe clamp for bush self- lubricating Haltestück für Buchse Ritegno per boccola autolubrificante</p>	<p>Toe clamp for bush self- lubricating Haltestück für Buchse Ritegno per boccola autolubrificante</p>	<p>Guide post retainer Haltestück für Führungssäule Ritegno per colonna guida</p>
<p>1054</p>	<p>1056</p>	<p>1057</p>	<p>1058</p>	<p>1059</p>

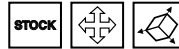
E47.14	E47.30	E47.31	E50.06	E50.12
				
AFNOR			VDI 3357	VDI 3357
Guide post retainer ring Haltering für Führungssäule Anello di tenuta per colonna guida	Toe Clamp Haltestück Ritegno	Retaining disc Heltescheibe Disco di fissaggio	Sintered steel wear plate Gleitplatte Stahl mit sintergleitfläche Piastra guida in acciaio sinterizzato	Sintered steel wear plate Gleitplatte Stahl mit sintergleitfläche Piastra guida in acciaio sinterizzato
1060	1061	1062	1064	1066

WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

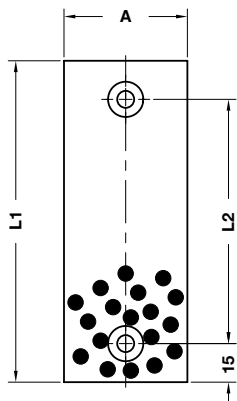


	Art.	A=30	H= 4	L1=305
	E40.02.	030	04	0305

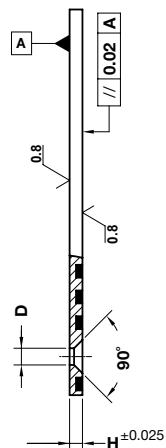
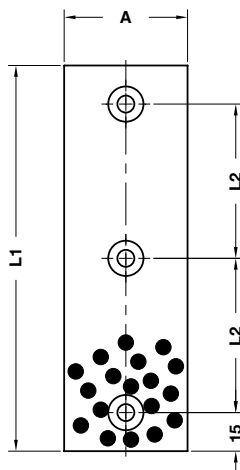
OMCR CODE	A	H	L1		
			305	605	1005
E40.02.02004	20	4	•		
E40.02.02505	25	5	•		
E40.02.03004	30	4	•		
E40.02.03006	30	6	•	•	
E40.02.03008	30	8	•	•	
E40.02.03010	30	10	•	•	•
E40.02.03012	30	12	•	•	•
E40.02.03510	35	10	•	•	•
E40.02.04005	40	5	•	•	
E40.02.04006	40	6	•	•	
E40.02.04008	40	8	•	•	•
E40.02.04010	40	10	•	•	•
E40.02.04012	40	12		•	•
E40.02.04016	40	16		•	•
E40.02.05010	50	10	•	•	•
E40.02.05012	50	12		•	•
E40.02.05020	50	20		•	•
E40.02.06012	60	12		•	•
E40.02.06016	60	16		•	•
E40.02.08010	80	10	•		•
E40.02.08012	80	12		•	•
E40.02.08016	80	16		•	•
E40.02.08020	80	20		•	•
E40.02.08025	80	25		•	•
E40.02.10016	100	16		•	•
E40.02.10020	100	20		•	•
E40.02.10025	100	25		•	•
E40.02.12520	125	20		•	•
E40.02.12525	125	25		•	•
E40.02.16025	160	25		•	•

**WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**

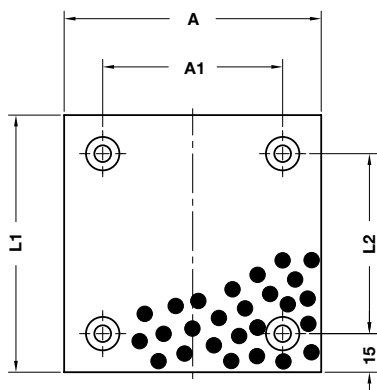
FORM A



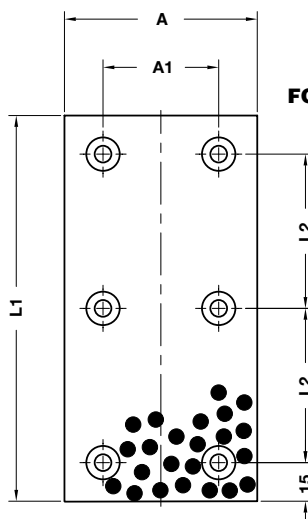
FORM B



FORM C

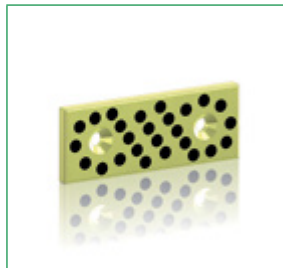


FORM D



Notes

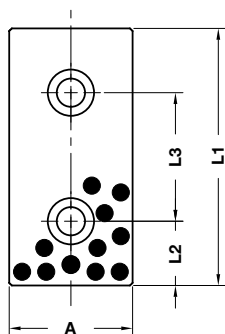
Material: Bronze + Graphite
HB > 190



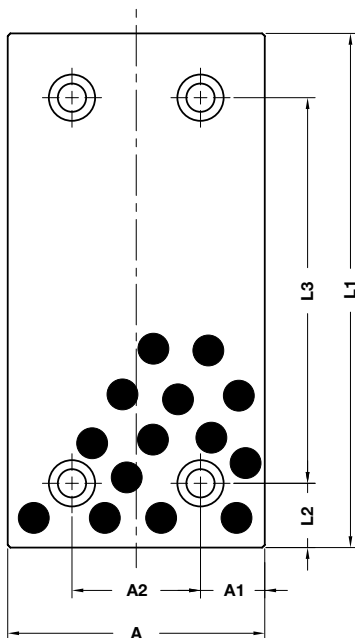
	Art.	A=48	H=5	L1=75
	E40.04.	048	05	075

OMCR CODE	A	H	A1	L1	L2	D	Form
E40.04.01805050	18	5	-	50	20	6,5	A
E40.04.01805075	18	5	-	75	45	6,5	A
E40.04.01805100	18	5	-	100	70	6,5	A
E40.04.01805150	18	5	-	150	60	6,5	B
E40.04.02805050	28	5	-	50	20	9	A
E40.04.02805075	28	5	-	75	45	9	A
E40.04.02805100	28	5	-	100	70	9	A
E40.04.02805150	28	5	-	150	60	9	B
E40.04.03805050	38	5	-	50	20	9	A
E40.04.03805075	38	5	-	75	45	9	A
E40.04.03805100	38	5	-	100	70	9	A
E40.04.03805150	38	5	-	150	60	9	B
E40.04.04805075	48	5	-	75	45	9	A
E40.04.04805100	48	5	-	100	70	9	A
E40.04.04805125	48	5	-	125	95	9	A
E40.04.04805150	48	5	-	150	60	9	B
E40.04.07505075	75	5	45	75	45	9	C
E40.04.07505100	75	5	45	100	70	9	C
E40.04.07505125	75	5	45	125	95	9	C
E40.04.07505150	75	5	45	150	60	9	D
E40.04.10005100	100	5	70	100	70	9	C
E40.04.10005125	100	5	70	125	95	9	C
E40.04.10005150	100	5	70	150	60	9	D

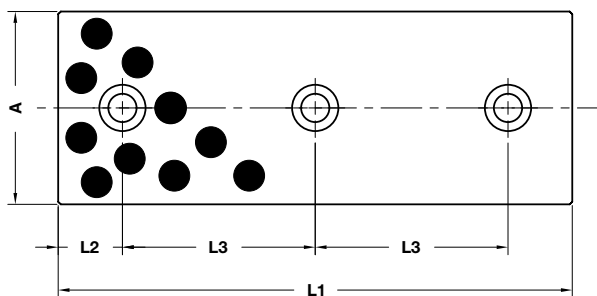
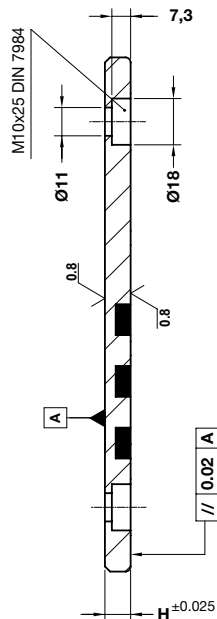
**WEAR PLATE SELF-LUBRICATING
FLACHLEISTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE**



FORM A



FORM B



FORM C

Notes

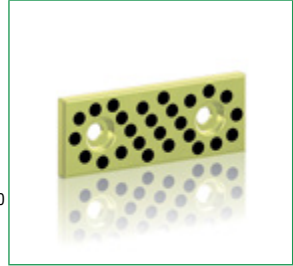
Material: Bronze + Graphite
HB > 190



For A1=28 and 38



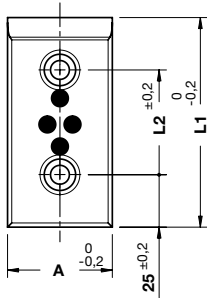
From A1=48 to A1=150



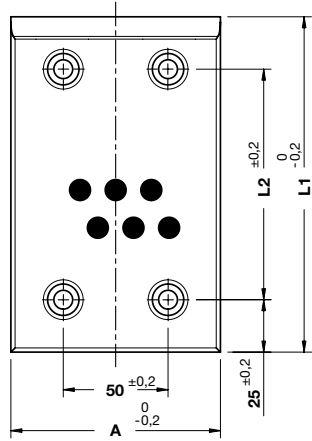
ORDER EXAMPLE	Art.	A=48	H=10	L1=100
	E40.05.	048	10	100

OMCR CODE	A	A1	A2	L1	L2	L3	H	Form
E40.05.02810075	28	-	-	75	15	45	10	A
E40.05.02810100	28	-	-	100	25	50	10	A
E40.05.02810125	28	-	-	125	25	75	10	A
E40.05.02810150	28	-	-	150	25	100	10	A
E40.05.03810075	38	-	-	75	15	45	10	A
E40.05.03810100	38	-	-	100	25	50	10	A
E40.05.03810125	38	-	-	125	25	75	10	A
E40.05.03810150	38	-	-	150	25	100	10	A
E40.05.04810075	48	-	-	75	15	45	10	A
E40.05.04810100	48	-	-	100	25	50	10	A
E40.05.04810125	48	-	-	125	25	75	10	A
E40.05.04810150	48	-	-	150	25	100	10	A
E40.05.04810200	48	-	-	200	50	100	10	A
E40.05.05810075	58	-	-	75	15	45	10	A
E40.05.05810100	58	-	-	100	25	50	10	A
E40.05.05810125	58	-	-	125	25	75	10	A
E40.05.05810150	58	-	-	150	25	100	10	A
E40.05.05810200	58	-	-	200	50	100	10	A
E40.05.07510075	75	-	-	75	15	45	10	A
E40.05.07510100	75	-	-	100	25	50	10	A
E40.05.07510125	75	-	-	125	25	75	10	A
E40.05.07510150	75	-	-	150	25	100	10	A
E40.05.07510200	75	-	-	200	25	75	10	C
E40.05.10010100	100	25	50	100	25	50	10	B
E40.05.10010125	100	25	50	125	25	75	10	B
E40.05.10010150	100	25	50	150	25	100	10	B
E40.05.10010200	100	25	50	200	25	150	10	B
E40.05.10010250	100	25	50	250	25	200	10	B
E40.05.12510150	125	37,5	50	150	25	100	10	B
E40.05.12510200	125	37,5	50	200	25	150	10	B
E40.05.12510250	125	37,5	50	250	25	200	10	B
E40.05.15010150	150	25	100	150	25	100	10	B
E40.05.15010200	150	25	100	200	25	150	10	B

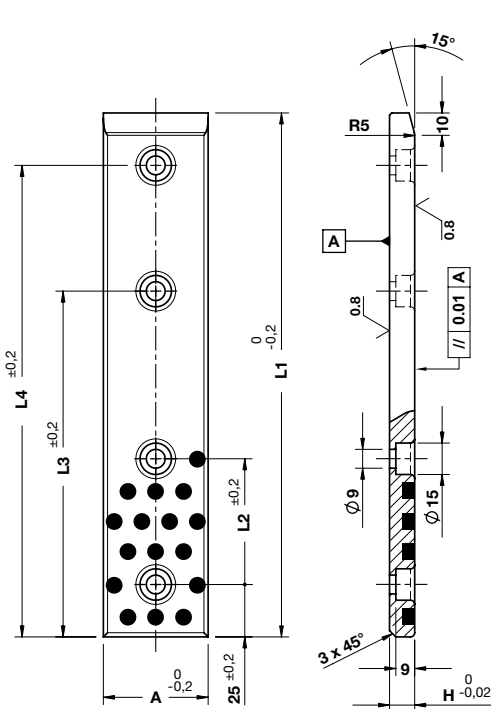
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357



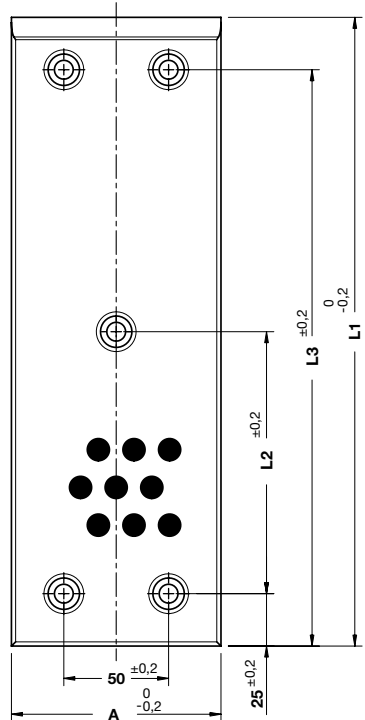
FORM A



FORM B



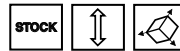
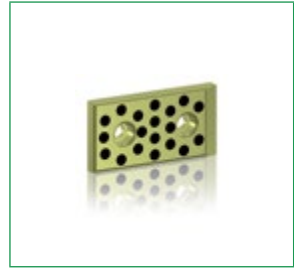
FORM C



FORM D

Notes

Material: Bronze + Graphite
HB > 190

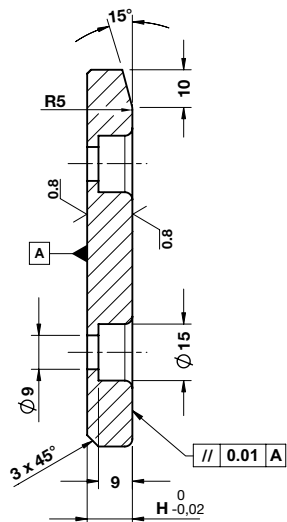
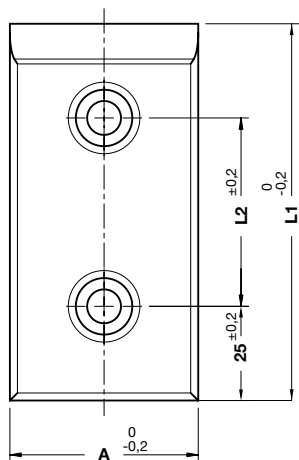


	Art.	A=50	H=12	L1=80
	E40.06.	050	12	080

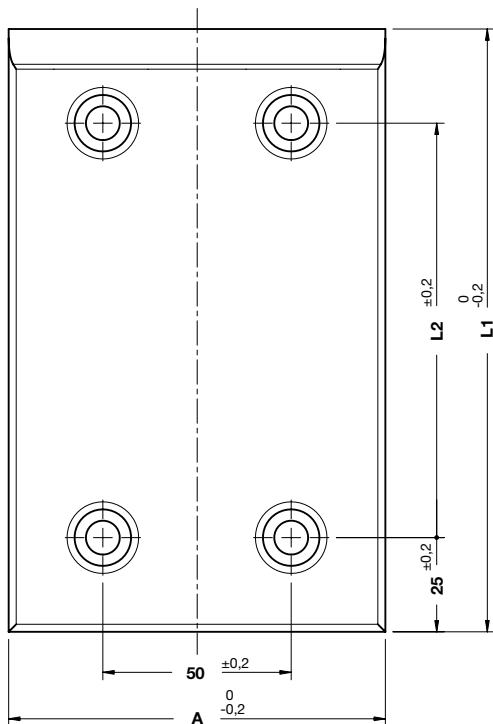
OMCR CODE	A	H	L1	L2	L3	L4	FORM
E40.06.03012080	30	12	80	30	-	-	A
E40.06.03012100	30	12	100	50	-	-	A
E40.06.03012125	30	12	125	75	-	-	A
E40.06.03012160	30	12	160	110	-	-	A
E40.06.03012200	30	12	200	150	-	-	A
E40.06.04012080	40	12	80	30	-	-	A
E40.06.04012100	40	12	100	50	-	-	A
E40.06.04012125	40	12	125	75	-	-	A
E40.06.04012160	40	12	160	110	-	-	A
E40.06.04012200	40	12	200	150	-	-	A
E40.06.05012080	50	12	80	30	-	-	A
E40.06.05012100	50	12	100	50	-	-	A
E40.06.05012125	50	12	125	75	-	-	A
E40.06.05012160	50	12	160	110	-	-	A
E40.06.05012200	50	12	200	150	-	-	A
E40.06.05012250	50	12	250	60	165	225	C
E40.06.05012300	50	12	300	80	195	275	C
E40.06.05012350	50	12	350	100	225	325	C
E40.06.05012400	50	12	400	120	255	375	C
E40.06.06012080	60	12	80	30	-	-	A
E40.06.06012100	60	12	100	50	-	-	A
E40.06.06012125	60	12	125	75	-	-	A
E40.06.06012160	60	12	160	110	-	-	A
E40.06.06012200	60	12	200	150	-	-	A
E40.06.08012080	80	12	80	30	-	-	A
E40.06.08012100	80	12	100	50	-	-	A
E40.06.08012125	80	12	125	75	-	-	A
E40.06.08012160	80	12	160	110	-	-	A
E40.06.08012200	80	12	200	150	-	-	A
E40.06.10012125	100	12	125	75	-	-	B
E40.06.10012160	100	12	160	110	-	-	B
E40.06.10012200	100	12	200	150	-	-	B
E40.06.10012250	100	12	250	200	-	-	B
E40.06.10012300	100	12	300	125	275	-	D

WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357

FORM A

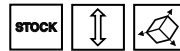


FORM B



Notes

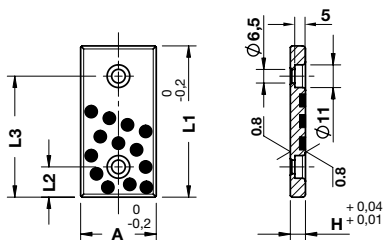
Material: 16MnCr5
HRC: 58÷60



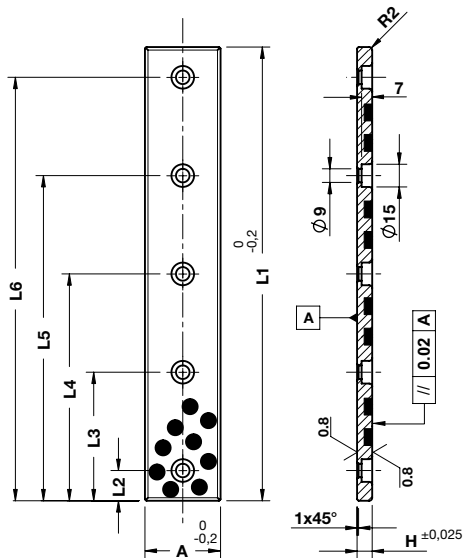
	Art.	A=50	H=12	L1=100
	E40.07.	050	12	100

OMCR CODE	A	H	L1	L2	FORM
E40.07.03012080	30	12	80	30	A
E40.07.03012100	30	12	100	50	A
E40.07.03012125	30	12	125	75	A
E40.07.03012160	30	12	160	110	A
E40.07.03012200	30	12	200	150	A
E40.07.04012080	40	12	80	30	A
E40.07.04012100	40	12	100	50	A
E40.07.04012125	40	12	125	75	A
E40.07.04012160	40	12	160	110	A
E40.07.04012200	40	12	200	150	A
E40.07.05012080	50	12	80	30	A
E40.07.05012100	50	12	100	50	A
E40.07.05012125	50	12	125	75	A
E40.07.05012160	50	12	160	110	A
E40.07.05012180	50	12	180	130	A
E40.07.05012200	50	12	200	150	A
E40.07.06012080	60	12	80	30	A
E40.07.06012100	60	12	100	50	A
E40.07.06012125	60	12	125	75	A
E40.07.06012160	60	12	160	110	A
E40.07.06012180	60	12	180	130	A
E40.07.06012200	60	12	200	150	A
E40.07.08012080	80	12	80	30	A
E40.07.08012100	80	12	100	50	A
E40.07.08012125	80	12	125	75	A
E40.07.08012160	80	12	160	110	A
E40.07.08012200	80	12	200	150	A
E40.07.10012125	100	12	125	75	B
E40.07.10012160	100	12	160	110	B
E40.07.10012200	100	12	200	150	B
E40.07.10012225	100	12	225	175	B
E40.07.10012250	100	12	250	200	B

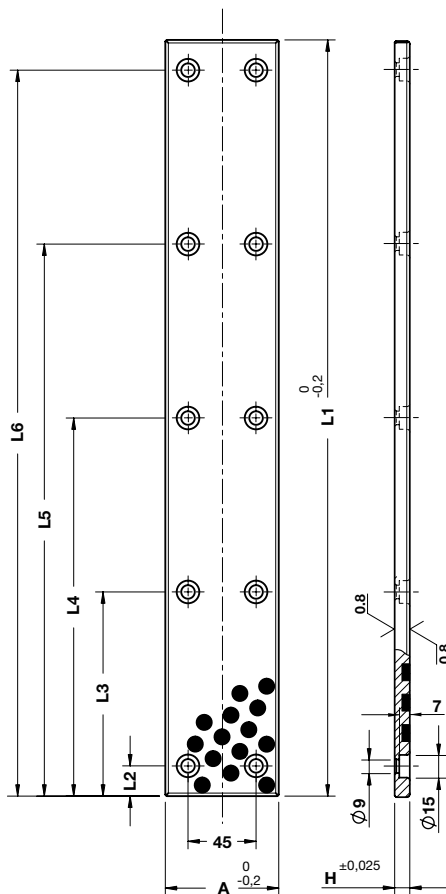
WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE



FORM A



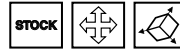
FORM B



FORM C

Notes

Material: Bronze + Graphite
HB > 190



	Art.	A=18	H=10	L1=100
	E40.08.	018	10	100

OMCR CODE	A	H	L1	L2	L3	L4	L5	L6	FORM
E40.08.01810075	18	10	75	15	60	-	-	-	A
E40.08.01810100	18	10	100	25	75	-	-	-	A
E40.08.01810125	18	10	125	25	100	-	-	-	A
E40.08.01810150	18	10	150	25	125	-	-	-	A
E40.08.02810075	28	10	75	15	60	-	-	-	A
E40.08.02810100	28	10	100	25	75	-	-	-	A
E40.08.02810125	28	10	125	25	100	-	-	-	A
E40.08.02810150	28	10	150	25	125	-	-	-	A
E40.08.03510100	35	10	100	20	80	-	-	-	B
E40.08.03510150	35	10	150	20	75	130	-	-	B
E40.08.03510200	35	10	200	20	75	125	180	-	B
E40.08.03510250	35	10	250	20	90	160	230	-	B
E40.08.03510300	35	10	300	20	85	150	215	280	B
E40.08.03510350	35	10	350	20	100	175	250	330	B
E40.08.03810075	38	10	75	15	60	-	-	-	A
E40.08.03810100	38	10	100	25	75	-	-	-	A
E40.08.03810125	38	10	125	25	100	-	-	-	A
E40.08.03810150	38	10	150	25	125	-	-	-	A
E40.08.04810075	48	10	75	15	60	-	-	-	A
E40.08.04810100	48	10	100	25	75	-	-	-	A
E40.08.04810125	48	10	125	25	100	-	-	-	A
E40.08.04810150	48	10	150	25	125	-	-	-	A
E40.08.05010100	50	10	100	20	80	-	-	-	B
E40.08.05010150	50	10	150	20	75	130	-	-	B
E40.08.05010200	50	10	200	20	75	125	180	-	B
E40.08.05010250	50	10	250	20	90	160	230	-	B
E40.08.05010300	50	10	300	20	85	150	215	280	B
E40.08.05010350	50	10	350	20	100	175	250	330	B
E40.08.05010400	50	10	400	20	110	200	290	380	B
E40.08.07510150	75	10	150	20	130	-	-	-	C
E40.08.07510200	75	10	200	20	100	180	-	-	C
E40.08.07510250	75	10	250	20	125	230	-	-	C
E40.08.07510300	75	10	300	20	105	195	280	-	C
E40.08.07510400	75	10	400	20	140	260	380	-	C
E40.08.07510500	75	10	500	20	135	250	365	480	C

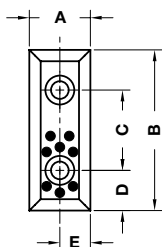
WEAR PLATE SELF-LUBRICATING GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF PIASTRA GUIDA AUTOLUBRIFICANTE

Notes

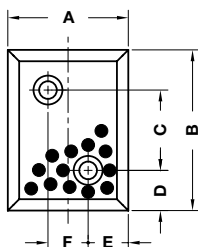
Material: Bronze + Graphite
HB > 190



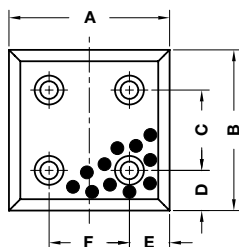
Only for "FORM A"



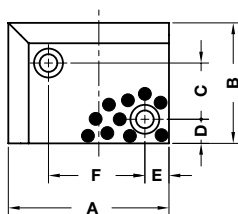
FORM A



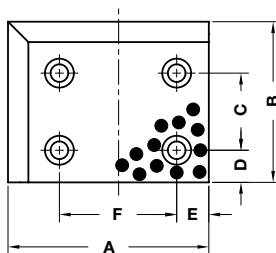
FORM B



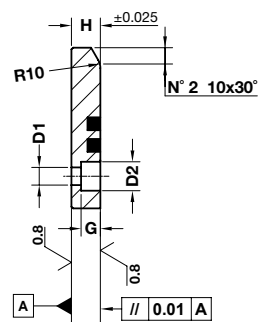
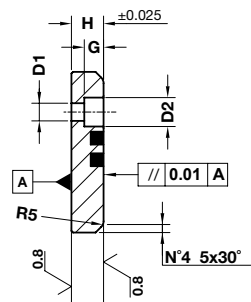
FORM C



FORM D



FORM E



Art.	A=75	H=20	B=100
E40.10.	075	20	100

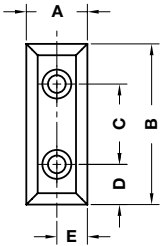
OMCR CODE	A	B	C	D	D1	D2	E	F	G	H	Form
E40.10.03820100	38	100	50	25	11	18	19	-	12	20	A
E40.10.03820150	38	150	100	25	11	18	19	-	12	20	A
E40.10.07520100	75	100	50	25	11	18	25	25	12	20	B
E40.10.07520150	75	150	100	25	11	18	37,5	-	12	20	A
E40.10.10020100	100	100	50	25	11	18	25	50	12	20	C
E40.10.10020150	100	150	100	25	11	18	25	50	12	20	C
E40.10.10018075	100	75	35	15	11	18	15	60	12	18	D
E40.10.12525100	125	100	48	20	13	20	20	73	14	25	E
E40.10.15025125	150	125	68	25	13	20	25	93	14	25	E

WEAR PLATE STEEL GLEITPLATTE STAHL PIASTRA GUIDA IN ACCIAIO

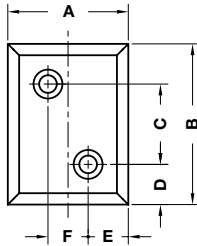
Notes

Material: 16MnCr5
HRC: 58÷60

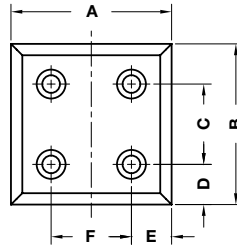
STOCK



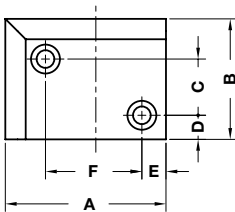
FORM A



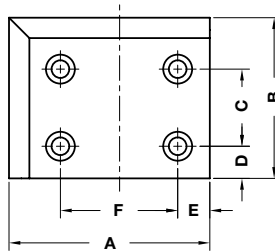
FORM B



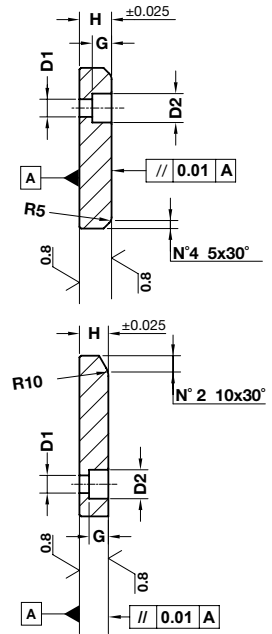
FORM C



FORM D



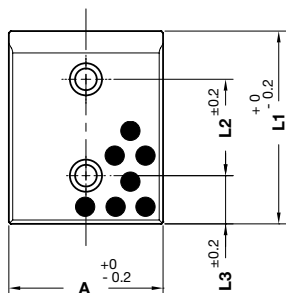
FORM E



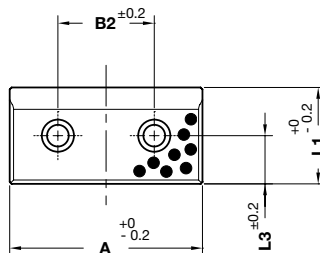
Art.	A=75	H=20	B=100
E40.11.	075	20	100

OMCR CODE	A	B	C	D	D1	D2	E	F	G	H	Form
E40.11.03820100	38	100	50	25	11	18	19	-	12	20	A
E40.11.03820150	38	150	100	25	11	18	19	-	12	20	A
E40.11.07520100	75	100	50	25	11	18	25	25	12	20	B
E40.11.07520150	75	150	100	25	11	18	37,5	-	12	20	A
E40.11.10020100	100	100	50	25	11	18	25	50	12	20	C
E40.11.10020150	100	150	100	25	11	18	25	50	12	20	C
E40.11.10018075	100	75	35	15	11	18	15	60	12	18	D
E40.11.12525100	125	100	48	20	13	20	20	73	14	25	E
E40.11.15025125	150	125	68	25	13	20	25	93	14	25	E

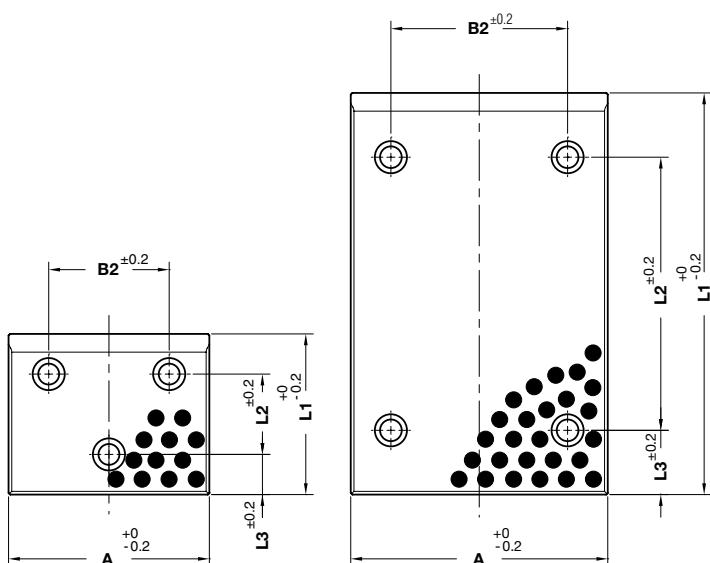
WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357



FORM A

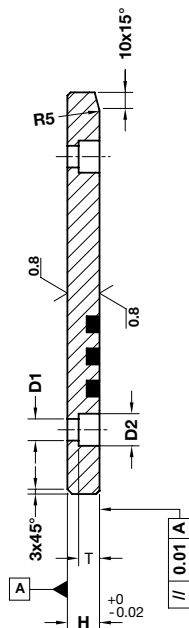


FORM B



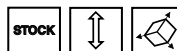
FORM C

FORM D



Notes

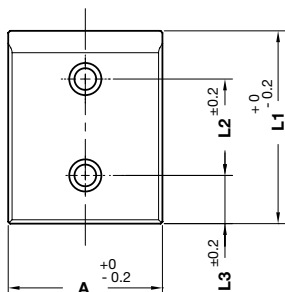
Material: Bronze + Graphite
HB > 190



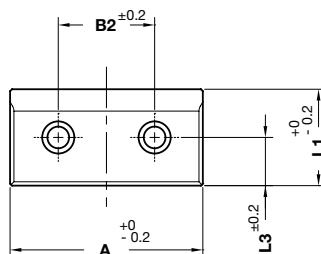
	Art.	A=125	H=20	L1=50
	E40.12.	125	20	050

OMCR CODE	A	H	L1	B2	L2	L3	D1	D2	T	Form
E40.12.05020080	50	20	80	-	30	25	9	15	9	A
E40.12.05020100	50	20	100	-	50	25	13,5	20	13	A
E40.12.05020125	50	20	125	-	75	25	13,5	20	13	A
E40.12.05020160	50	20	160	-	110	25	13,5	20	13	A
E40.12.05020200	50	20	200	-	150	25	13,5	20	13	A
E40.12.08020050	80	20	50	30	-	25	9	15	9	B
E40.12.08020080	80	20	80	-	30	25	13,5	20	13	A
E40.12.08020100	80	20	100	-	50	25	13,5	20	13	A
E40.12.08020125	80	20	125	-	75	25	13,5	20	13	A
E40.12.08020160	80	20	160	-	110	25	13,5	20	13	A
E40.12.08020200	80	20	200	-	150	25	13,5	20	13	A
E40.12.08020250	80	20	250	-	170	40	13,5	20	13	A
E40.12.10020050	100	20	50	50	-	25	13,5	20	13	B
E40.12.10020080	100	20	80	50	-	40	13,5	20	13	B
E40.12.10020100	100	20	100	-	50	25	13,5	20	13	A
E40.12.10020125	100	20	125	-	75	25	13,5	20	13	A
E40.12.10020160	100	20	160	-	110	25	13,5	20	13	A
E40.12.10020200	100	20	200	-	150	25	13,5	20	13	A
E40.12.10020250	100	20	250	-	170	40	13,5	20	13	A
E40.12.10020315	100	20	315	-	235	40	13,5	20	13	A
E40.12.12520050	125	20	50	75	-	25	13,5	20	13	B
E40.12.12520080	125	20	80	75	-	40	13,5	20	13	B
E40.12.12520100	125	20	100	75	50	25	13,5	20	13	C
E40.12.12520125	125	20	125	75	75	25	13,5	20	13	C
E40.12.12520160	125	20	160	75	110	25	13,5	20	13	C
E40.12.12520200	125	20	200	75	150	25	13,5	20	13	C
E40.12.12520250	125	20	250	75	170	40	13,5	20	13	C
E40.12.12520315	125	20	315	75	235	40	13,5	20	13	C
E40.12.16020050	160	20	50	110	-	25	13,5	20	13	B
E40.12.16020080	160	20	80	110	-	40	13,5	20	13	B
E40.12.16020100	160	20	100	110	50	25	13,5	20	13	C
E40.12.16020125	160	20	125	110	75	25	13,5	20	13	C
E40.12.16020160	160	20	160	110	110	25	13,5	20	13	C
E40.12.16020200	160	20	200	110	150	25	13,5	20	13	C
E40.12.16020250	160	20	250	110	170	40	13,5	20	13	D
E40.12.16020315	160	20	315	110	235	40	13,5	20	13	D

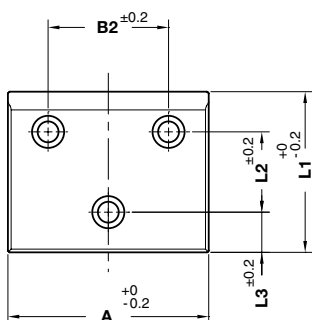
WEAR PLATE STEEL VDI 3357
GLEITPLATTE STAHL VDI 3357
PIASTRA GUIDA IN ACCIAIO VDI 3357



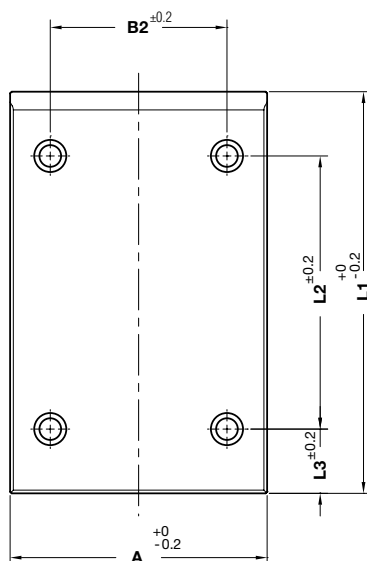
FORM A



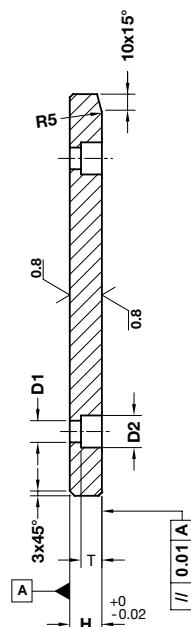
FORM B



FORM C

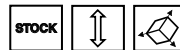


FORM D



Notes

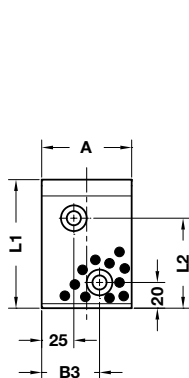
Material: 16MnCr5
HRC: 58÷60



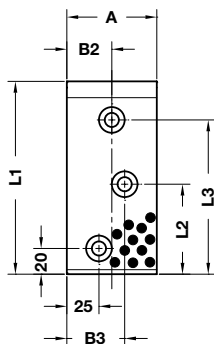
	Art.	A=125	H=20	L1=50
	E40.13.	125	20	050

OMCR CODE	A	H	L1	B2	L2	L3	D1	D2	T	Form
E40.13.05020080	50	20	80	-	30	25	9	15	9	A
E40.13.05020100	50	20	100	-	50	25	13,5	20	13	A
E40.13.05020125	50	20	125	-	75	25	13,5	20	13	A
E40.13.05020160	50	20	160	-	110	25	13,5	20	13	A
E40.13.05020200	50	20	200	-	150	25	13,5	20	13	A
E40.13.08020050	80	20	50	30	-	25	9	15	9	B
E40.13.08020080	80	20	80	-	30	25	13,5	20	13	A
E40.13.08020100	80	20	100	-	50	25	13,5	20	13	A
E40.13.08020125	80	20	125	-	75	25	13,5	20	13	A
E40.13.08020160	80	20	160	-	110	25	13,5	20	13	A
E40.13.08020200	80	20	200	-	150	25	13,5	20	13	A
E40.13.08020250	80	20	250	-	170	25	13,5	20	13	A
E40.13.10020050	100	20	50	50	-	25	13,5	20	13	B
E40.13.10020080	100	20	80	50	-	40	13,5	20	13	B
E40.13.10020100	100	20	100	-	50	25	13,5	20	13	A
E40.13.10020125	100	20	125	-	75	25	13,5	20	13	A
E40.13.10020160	100	20	160	-	110	25	13,5	20	13	A
E40.13.10020200	100	20	200	-	150	25	13,5	20	13	A
E40.13.10020250	100	20	250	-	170	40	13,5	20	13	A
E40.13.10020315	100	20	315	-	235	40	13,5	20	13	A
E40.13.12520050	125	20	50	75	-	25	13,5	20	13	B
E40.13.12520080	125	20	80	75	-	40	13,5	20	13	B
E40.13.12520100	125	20	100	75	50	25	13,5	20	13	C
E40.13.12520125	125	20	125	75	75	25	13,5	20	13	C
E40.13.12520160	125	20	160	75	110	25	13,5	20	13	C
E40.13.12520200	125	20	200	75	150	25	13,5	20	13	C
E40.13.12520250	125	20	250	75	170	40	13,5	20	13	C
E40.13.12520315	125	20	315	75	235	40	13,5	20	13	C
E40.13.16020050	160	20	50	110	-	25	13,5	20	13	B
E40.13.16020080	160	20	80	110	-	40	13,5	20	13	B
E40.13.16020100	160	20	100	110	50	25	13,5	20	13	C
E40.13.16020125	160	20	125	110	75	25	13,5	20	13	C
E40.13.16020160	160	20	160	110	110	25	13,5	20	13	C
E40.13.16020200	160	20	200	110	150	25	13,5	20	13	C
E40.13.16020250	160	20	250	110	170	40	13,5	20	13	D
E40.13.16020315	160	20	315	110	235	40	13,5	20	13	D

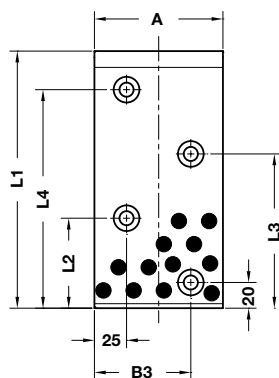
WEAR PLATE SELF-LUBRICATING AFNOR
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR
PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR



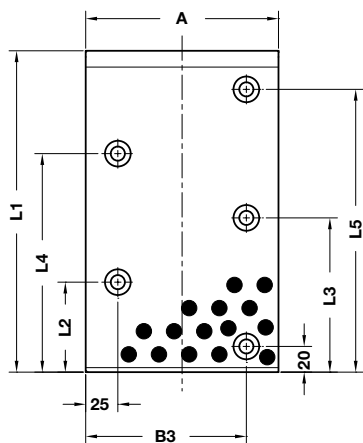
FORM A



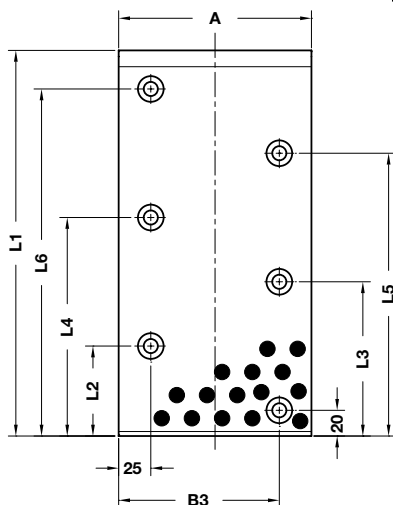
FORM B



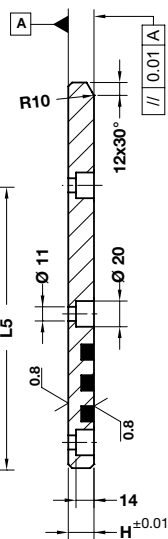
FORM C

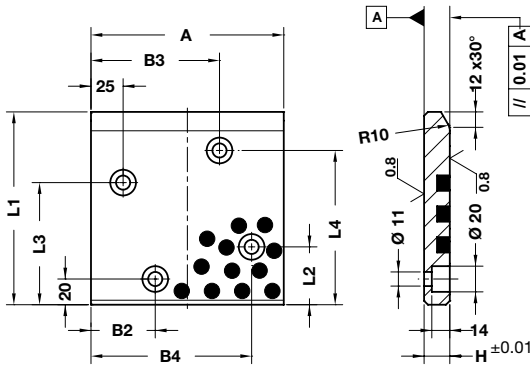


FORM E

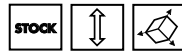
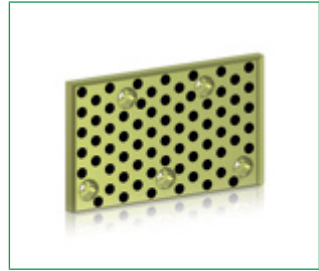


FORM F



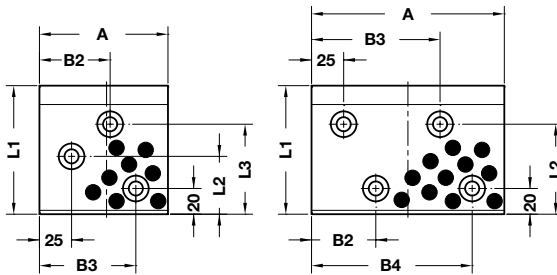


FORM D



Notes

Material: Bronze + Graphite
HB > 190



FORM G

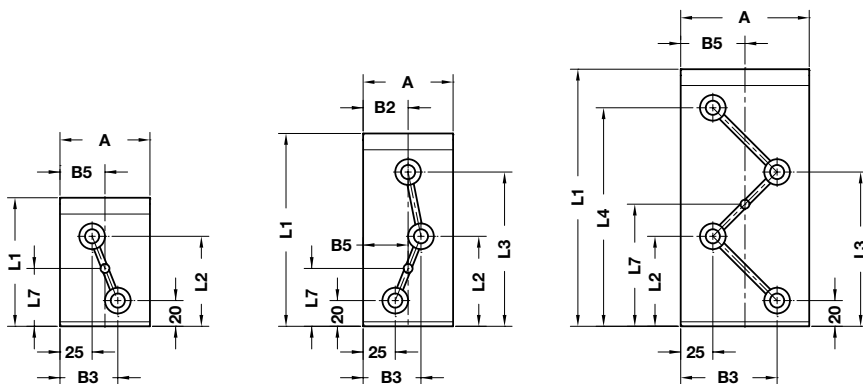
FORM H

ORDER EXAMPLE	Art.	A=100	H=20	L1=150
	E40.14.	100	20	150

OMCR CODE	A	H	L1	B2	B3	B4	L2	L3	L4	L5	L6	Form
E40.14.07020100	70	20	100	-	45	-	70	-	-	-	-	A
E40.14.07020150	70	20	150	35	45	-	70	120	-	-	-	B
E40.14.07020200	70	20	200	-	45	-	70	120	170	-	-	C
E40.14.10020100	100	20	100	55	75	-	45	70	-	-	-	G
E40.14.10020150	100	20	150	-	75	-	45	95	120	-	-	D
E40.14.10020200	100	20	200	-	75	-	70	120	170	-	-	C
E40.14.10020250	100	20	250	-	75	-	70	120	170	220	-	E
E40.14.10020300	100	20	300	-	75	-	70	120	170	220	270	F
E40.14.15020100	150	20	100	50	100	125	70	-	-	-	-	H
E40.14.15020150	150	20	150	50	100	125	45	95	120	-	-	D
E40.14.15020200	150	20	200	-	125	-	70	120	170	-	-	C
E40.14.15020250	150	20	250	-	125	-	70	120	170	220	-	E
E40.14.15020300	150	20	300	-	125	-	70	120	170	220	270	F
E40.14.20020100	200	20	100	75	125	175	70	-	-	-	-	H

Sliding Elements

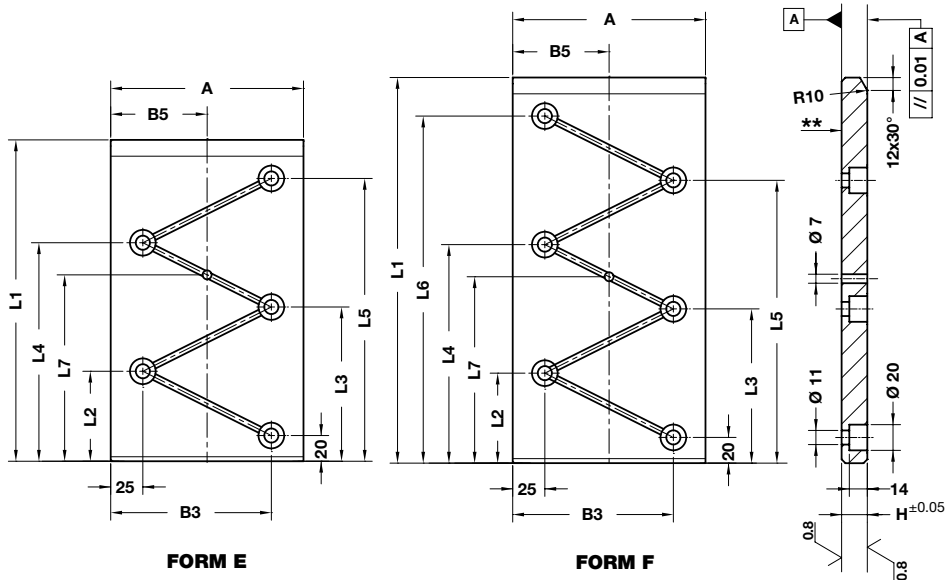
WEAR PLATE STEEL AFNOR
GLEITPLATTE STAHL AFNOR
PIASTRA GUIDA IN ACCIAIO AFNOR



FORM A

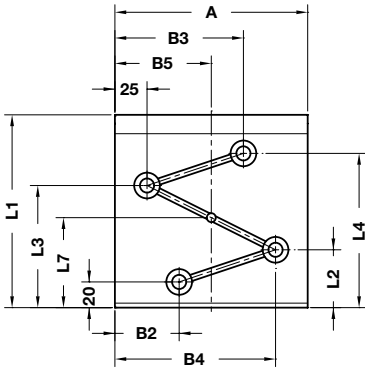
FORM B

FORM C

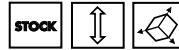
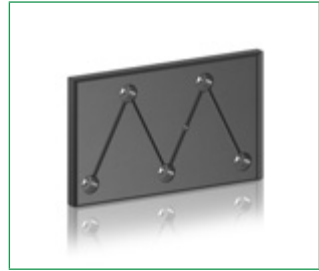
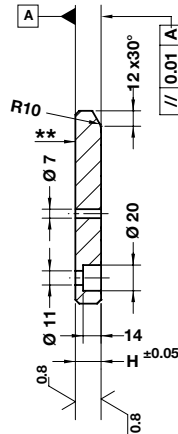


FORM E

FORM F



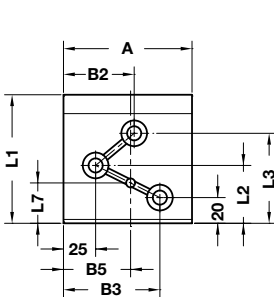
FORM D



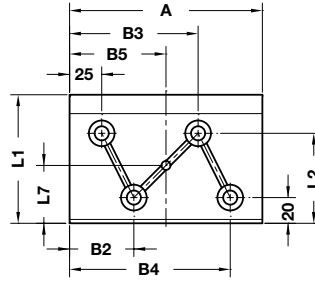
Notes

Material: 16MnCr5
HRC: 58÷60

(**) Not hardened surface



FORM G



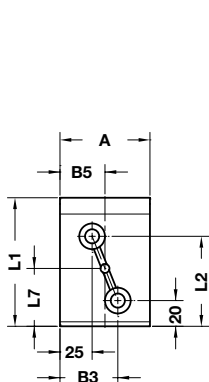
FORM H

ORDER EXAMPLE	Art.	A=100	H=21	L1=150
	E40.15.	100	21	150

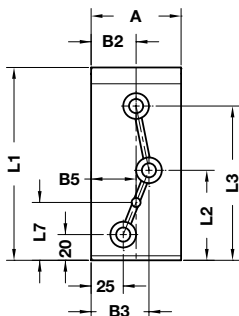
OMCR CODE	A	H	L1	B2	B3	B4	B5	L2	L3	L4	L5	L6	L7	Form
E40.15.07021100	70	21	100	-	45	-	35	70	-	-	-	-	45	A
E40.15.07021150	70	21	150	35	45	-	35	70	120	-	-	-	45	B
E40.15.07021200	70	21	200	-	45	-	35	70	120	170	-	-	95	C
E40.15.10021100	100	21	100	55	75	-	50	45	70	-	-	-	32,5	G
E40.15.10021150	100	21	150	-	75	-	50	45	95	120	-	-	70	D
E40.15.10021200	100	21	200	-	75	-	50	70	120	170	-	-	95	C
E40.15.10021250	100	21	250	-	75	-	50	70	120	170	220	-	145	E
E40.15.10021300	100	21	300	-	75	-	50	70	120	170	220	270	145	F
E40.15.15021100	150	21	100	50	100	125	75	70	-	-	-	-	45	H
E40.15.15021150	150	21	150	50	100	125	75	45	95	120	-	-	70	D
E40.15.15021200	150	21	200	-	125	-	75	70	120	170	-	-	95	C
E40.15.15021250	150	21	250	-	125	-	75	70	120	170	220	-	145	E
E40.15.15021300	150	21	300	-	125	-	75	70	120	170	220	270	145	F
E40.15.20021100	200	21	100	75	125	175	100	70	-	-	-	-	45	H

Sliding Elements

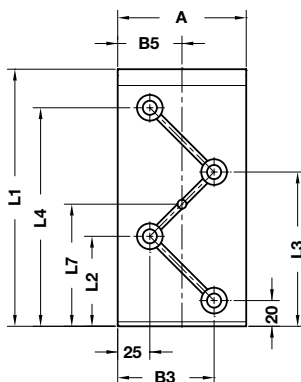
WEAR PLATE STEEL AFNOR GLEITPLATTE STAHL AFNOR PIASTRA GUIDA IN ACCIAIO AFNOR



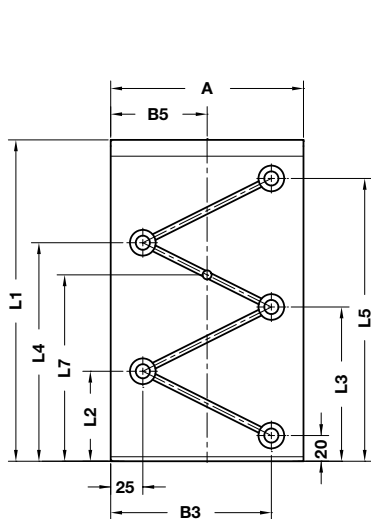
FORM A



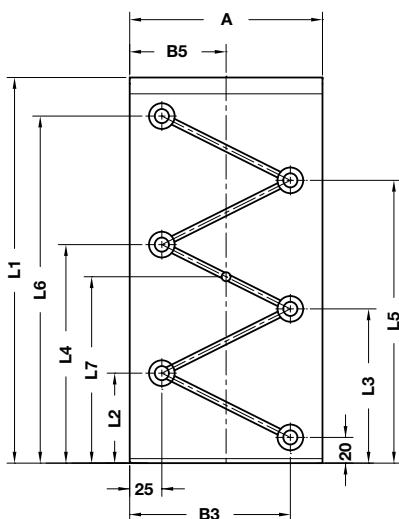
FORM B



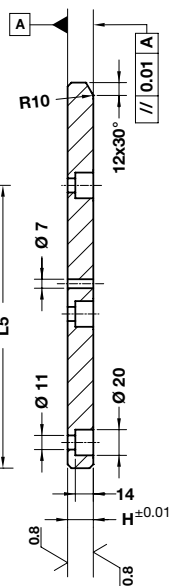
FORM C

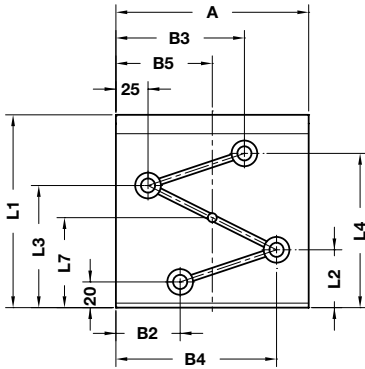


FORM E

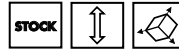
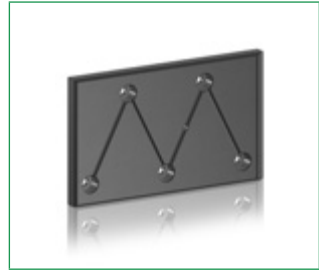
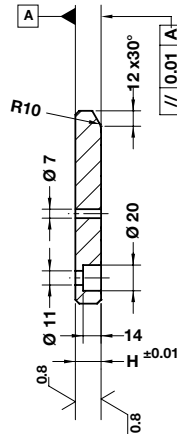


FORM F



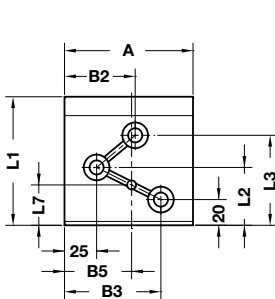


FORM D

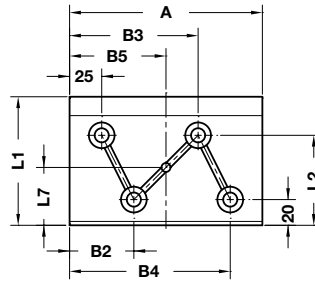


Notes

Material: 16MnCr5
HRC: 58+60



FORM G



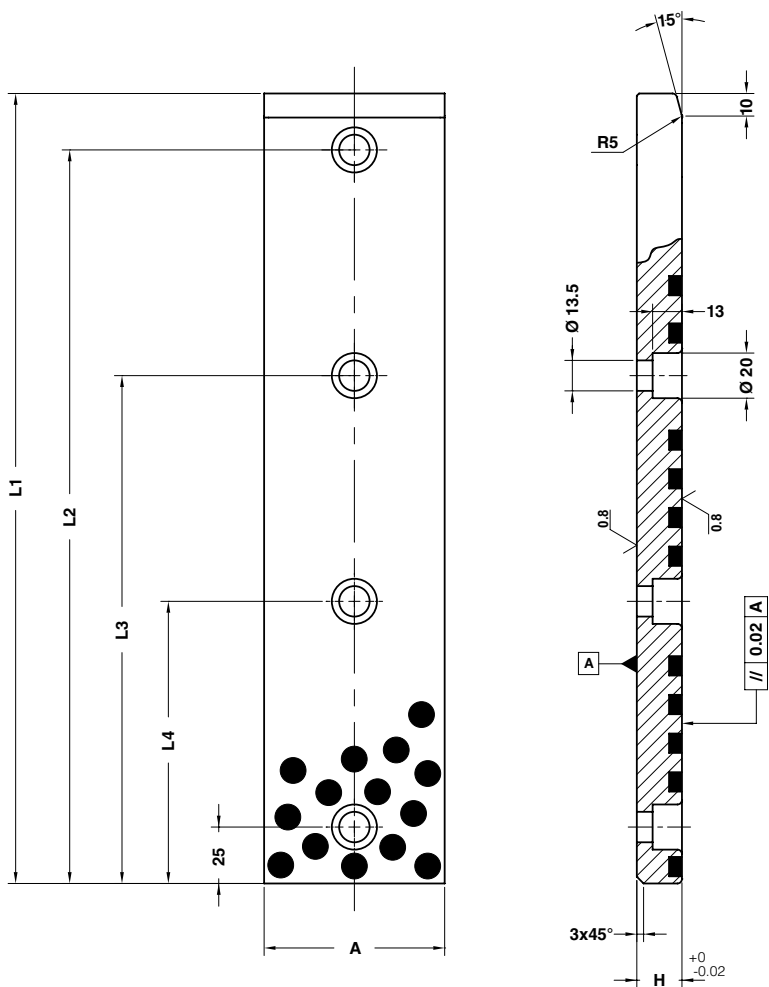
FORM H

ORDER EXAMPLE	Art.	A=100	H=20	L1=150
	E40.16.	100	20	150

OMCR CODE	A	H	L1	B2	B3	B4	B5	L2	L3	L4	L5	L6	L7	Form
E40.16.07020100	70	20	100	-	45	-	35	70	-	-	-	-	45	A
E40.16.07020150	70	20	150	35	45	-	35	70	120	-	-	-	45	B
E40.16.07020200	70	20	200	-	45	-	35	70	120	170	-	-	95	C
E40.16.10020100	100	20	100	55	75	-	50	45	70	-	-	-	32,5	G
E40.16.10020150	100	20	150	-	75	-	50	45	95	120	-	-	70	D
E40.16.10020200	100	20	200	-	75	-	50	70	120	170	-	-	95	C
E40.16.10020250	100	20	250	-	75	-	50	70	120	170	220	-	145	E
E40.16.10020300	100	20	300	-	75	-	50	70	120	170	220	270	145	F
E40.16.15020100	150	20	100	50	100	125	75	70	-	-	-	-	45	H
E40.16.15020150	150	20	150	50	100	125	75	45	95	120	-	-	70	D
E40.16.15020200	150	20	200	-	125	-	75	70	120	170	-	-	95	C
E40.16.15020250	150	20	250	-	125	-	75	70	120	170	220	-	145	E
E40.16.15020300	150	20	300	-	125	-	75	70	120	170	220	270	145	F
E40.16.20020100	200	20	100	75	125	175	100	70	-	-	-	-	45	H

Sliding Elements

WEAR PLATE SELF-LUBRICATING VDI 3357
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

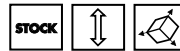
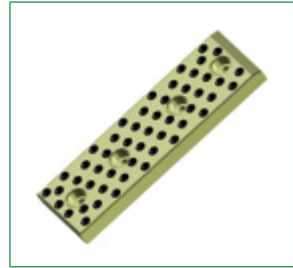


Notes

Material: Bronze + Graphite

HB > 190

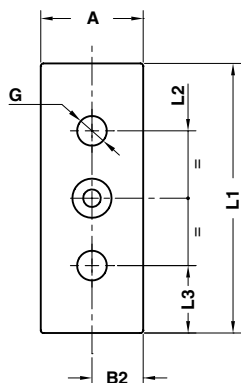
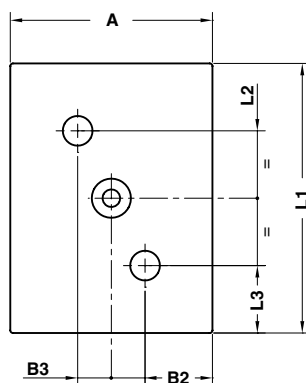
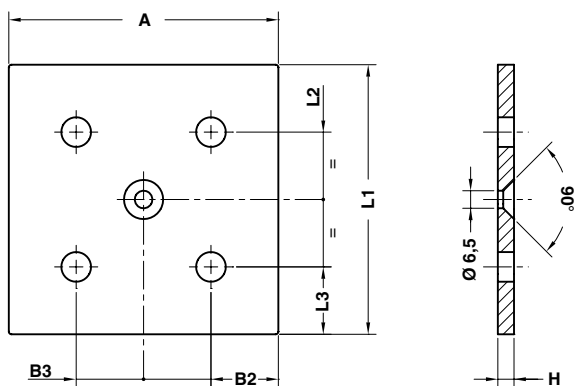
Screws not included



Art.	A=80	H=20	L1=300
E40.18.	080	20	300

OMCR CODE	A	L1	H	L2	L3	L4
E40.18.05020250	50	250	20	225	165	85
E40.18.05020300	50	300	20	275	195	105
E40.18.05020350	50	350	20	325	225	125
E40.18.05020400	50	400	20	375	255	145
E40.18.05020450	50	450	20	425	285	165
E40.18.05020500	50	500	20	475	325	175
E40.18.08020250	80	250	20	225	165	85
E40.18.08020300	80	300	20	275	195	105
E40.18.08020350	80	350	20	325	225	125
E40.18.08020400	80	400	20	375	255	145
E40.18.08020450	80	450	20	425	285	165
E40.18.08020500	80	500	20	475	325	175
E40.18.10020250	100	250	20	225	165	85
E40.18.10020300	100	300	20	275	195	105
E40.18.10020350	100	350	20	325	225	125
E40.18.10020400	100	400	20	375	255	145
E40.18.10020450	100	450	20	425	285	165
E40.18.10020500	100	500	20	475	325	175
E40.18.12520250	125	250	20	225	165	85
E40.18.12520300	125	300	20	275	195	105
E40.18.12520350	125	350	20	325	225	125
E40.18.12520400	125	400	20	375	255	145
E40.18.12520450	125	450	20	425	285	165
E40.18.12520500	125	500	20	475	325	175
E40.18.16020250	160	250	20	225	165	85
E40.18.16020300	160	300	20	275	195	105
E40.18.16020350	160	350	20	325	225	125
E40.18.16020400	160	400	20	375	255	145
E40.18.16020450	160	450	20	425	285	165
E40.18.16020500	160	500	20	475	325	175

DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
DISTANZIALE PER PIASTRA

FORM A**FORM B****FORM C**

Notes

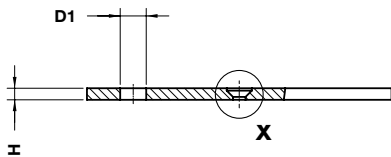
Material: S37



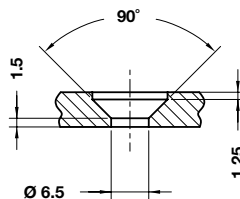
	Art.	A=75	H=6	L1=150
	E40.20.	075	6	150

OMCR CODE	For wear plate	A	L1	L2	L3	B2	B3	G	H	Form
E40.20.0386100	E40.10.03820100	38	100	50	25	19	-	11	6	A
E40.20.0386150	E40.10.03820150	38	150	100	25	19	-	11	6	A
E40.20.0756100	E40.10.07520100	75	100	50	25	25	25	11	6	B
E40.20.0756150	E40.10.07520150	75	150	100	25	37,5	-	11	6	A
E40.20.1006075	E40.10.10018075	100	75	35	15	15	60	11	6	B
E40.20.1006100	E40.10.10020100	100	100	50	25	25	50	11	6	C
E40.20.1006150	E40.10.10020150	100	150	100	25	25	50	11	6	C
E40.20.1256100	E40.10.12525100	125	100	48	20	20	73	13	6	C
E40.20.1506125	E40.10.15025125	150	125	68	25	25	93	13	6	C

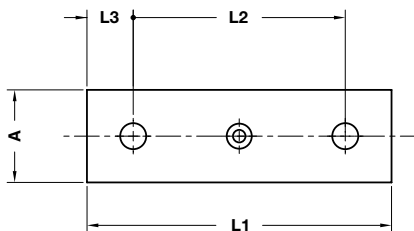
**DISTANCE PLATE FOR WEAR PLATE
HÖHENAUSGLEICH FÜR GLEITPLATTE
Distanziale per PIASTRA**



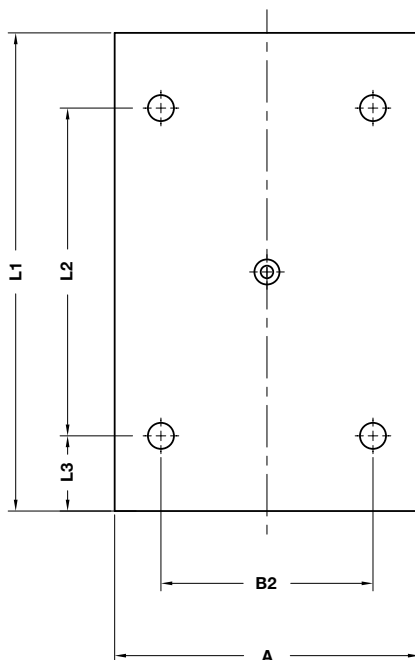
DETAIL X



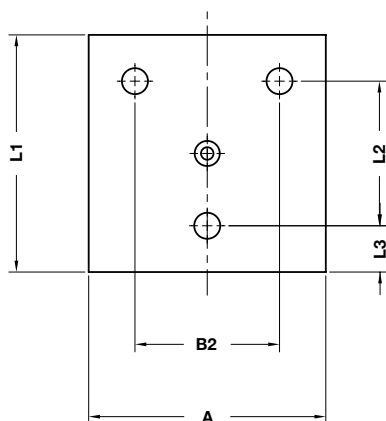
FORM A



FORM C

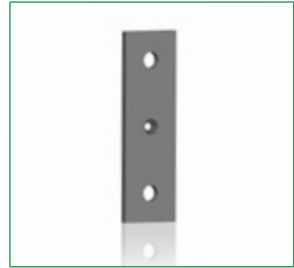


FORM B



Notes

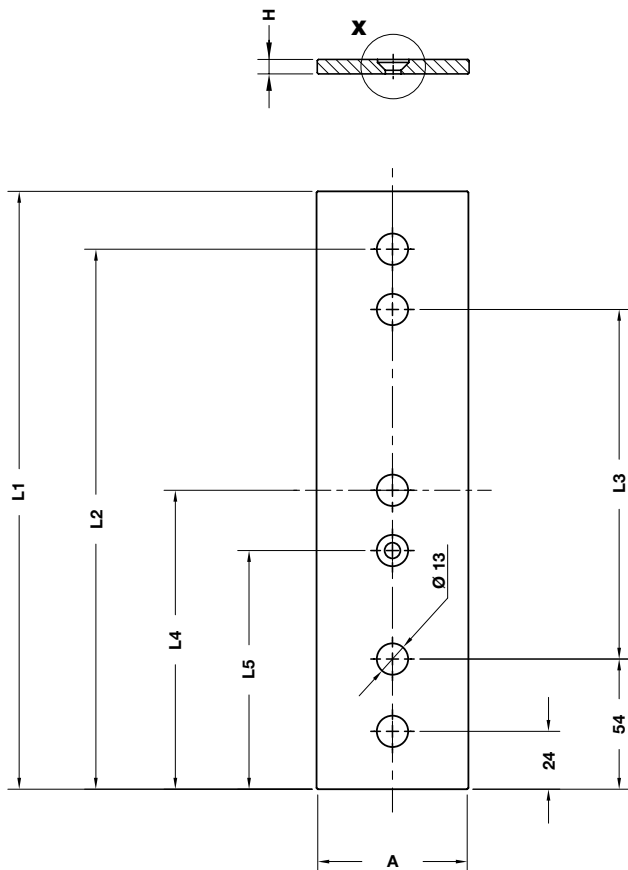
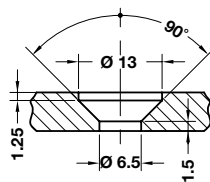
Material: S137



	Art.	A=78	H=6,5	L1=248
	E40.21.	078	6	248

OMCR CODE	For wear plate	A	H	L1	B2	L2	L3	D1	Form
E40.21.0486078	E40.12.05020080	48	6,5	78	-	30	24	9	A
	E40.12.08020050	48	6,5	78	-	30	24	9	A
E40.21.0486098	E40.12.05020100	48	6,5	98	-	50	24	13,5	A
	E40.12.10020050	48	6,5	98	-	50	24	13,5	A
E40.21.0486123	E40.12.05020125	48	6,5	123	-	75	24	13,5	A
	E40.12.12520050	48	6,5	123	-	75	24	13,5	A
E40.21.0486158	E40.12.05020160	48	6,5	158	-	110	24	13,5	A
	E40.12.16020050	48	6,5	158	-	110	24	13,5	A
E40.21.0486198	E40.12.05020200	48	6,5	198	-	150	24	13,5	A
E40.21.0786078	E40.12.08020080	78	6,5	78	-	30	24	13,5	A
E40.21.0786098	E40.12.08020100	78	6,5	98	-	50	24	13,5	A
	E40.12.10020080	78	6,5	98	-	50	24	13,5	A
E40.21.0786123	E40.12.08020125	78	6,5	123	-	75	24	13,5	A
	E40.12.12520080	78	6,5	123	-	75	24	13,5	A
E40.21.0786158	E40.12.08020160	78	6,5	158	-	110	24	13,5	A
	E40.12.16020080	78	6,5	158	-	110	24	13,5	A
E40.21.0786198	E40.12.08020200	78	6,5	198	-	150	24	13,5	A
E40.21.0986098	E40.12.10020100	98	6,5	98	-	50	24	13,5	A
E40.21.0986123	E40.12.10020125	98	6,5	123	-	75	24	13,5	A
E40.21.0986158	E40.12.10020160	98	6,5	158	-	110	24	13,5	A
E40.21.0986198	E40.12.10020200	98	6,5	198	-	150	24	13,5	A
E40.21.0986248	E40.12.10020250	98	6,5	248	-	170	39	13,5	A
E40.21.0986313	E40.12.10020315	98	6,5	313	-	235	39	13,5	A
E40.21.1236098	E40.12.12520100	123	6,5	98	75	50	24	13,5	B
E40.21.1236123	E40.12.12520125	123	6,5	123	75	75	24	13,5	B
E40.21.1236158	E40.12.12520160	123	6,5	158	75	110	24	13,5	B
E40.21.1236198	E40.12.12520200	123	6,5	198	75	150	24	13,5	B
E40.21.1236248	E40.12.12520250	123	6,5	248	75	170	39	13,5	B
E40.21.1236313	E40.12.12520315	123	6,5	313	75	235	39	13,5	B
E40.21.1586098	E40.12.16020100	158	6,5	98	110	50	24	13,5	B
E40.21.1586123	E40.12.16020125	158	6,5	123	75	110	24	13,5	B
E40.21.1586158	E40.12.16020160	158	6,5	158	110	110	24	13,5	B
E40.21.1586198	E40.12.16020200	158	6,5	198	110	150	24	13,5	B
E40.21.1586248	E40.12.16020250	158	6,5	248	110	170	39	13,5	C
E40.21.1586313	E40.12.16020315	158	6,5	313	110	235	39	13,5	C

DISTANCE PLATE FOR "V" DRIVER
HÖHENAUSGLEICH FÜR PRISMENFUHRUNG
DISTANZIALE PER GUIDA A "V"

**DETAIL X**

Notes

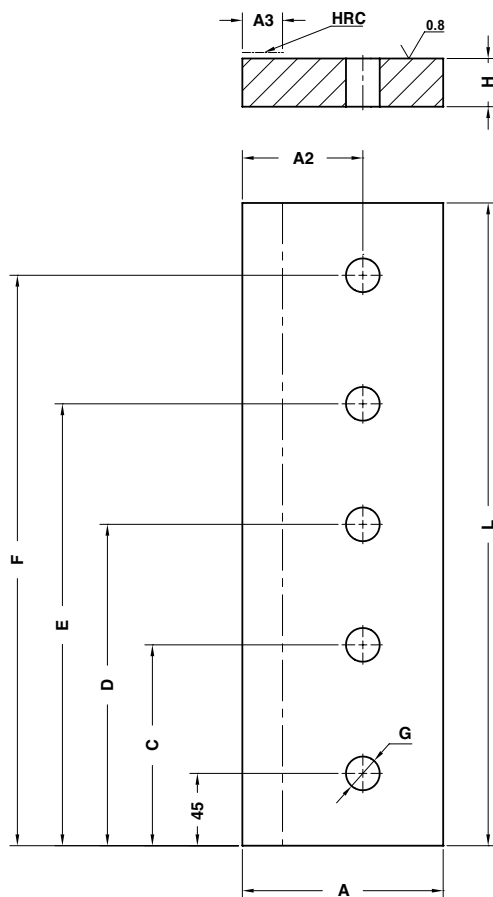
Material: S37



	Art.	A=63	H=6,5	L1=248
	E40.22.	063	6	248

OMCR CODE	For "V" driver	A	H	L1	L2	L3	L4	L5
E40.22.0636148	E43.13.06544150	63	6,5	148	124	45	-	74
E40.22.0636198	E43.13.06544200	63	6,5	198	174	95	-	99
E40.22.0636248	E43.13.06544250	63	6,5	248	224	145	124	99
E40.22.0636298	E43.13.06544300	63	6,5	298	274	195	149	124
E40.22.1236148	E43.21.12552150	123	6,5	148	124	45	-	74
E40.22.1236198	E43.21.12552200	123	6,5	198	174	95	-	99
E40.22.1236248	E43.21.12552250	123	6,5	248	224	145	124	99
E40.22.1236298	E43.21.12552300	123	6,5	298	274	195	149	124

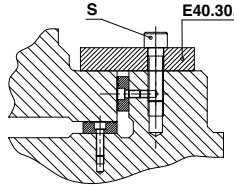
WEAR PLATE STEEL
GLEITPLATTE STAHL
PIASTRA GUIDA IN ACCIAIO



Notes

Material: CK45
HRC: 58÷60

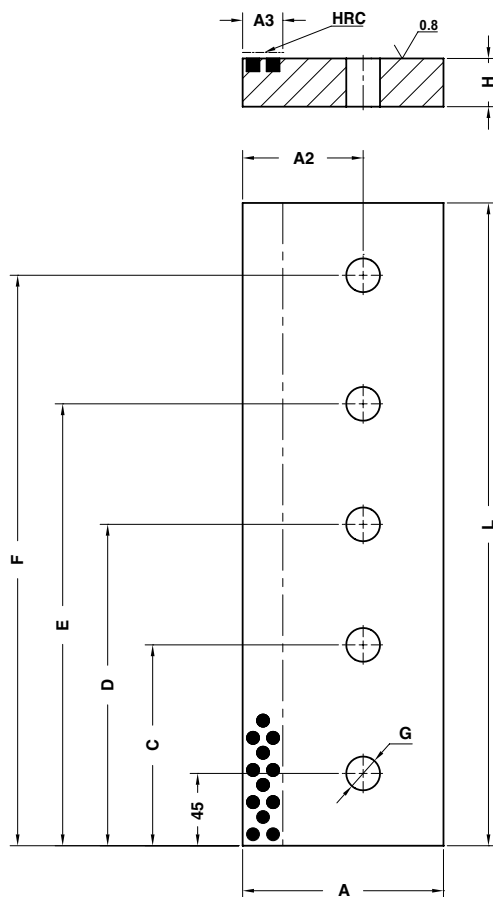
Application example



ORDER EXAMPLE	Art.	A=75	H=25	L1=200
	E40.30.	075	25	200

OMCR CODE	A	A2	A3	L	H	C	D	E	F	G	S
E40.30.07525160	75	40	25	160	25	-	-	-	115	17	Nr.2 - M16x60
E40.30.07525200	75	40	25	200	25	-	-	-	155	17	Nr.2 - M16x60
E40.30.07525250	75	40	25	250	25	-	125	-	205	17	Nr.3 - M16x60
E40.30.10025160	100	60	30	160	25	-	-	-	115	17	Nr.2 - M16x60
E40.30.10025200	100	60	30	200	25	-	-	-	155	17	Nr.2 - M16x60
E40.30.10025250	100	60	30	250	25	-	125	-	205	17	Nr.3 - M16x60
E40.30.10025400	100	60	30	400	25	125	200	275	355	17	Nr.5 - M16x60
E40.30.10030160	100	60	30	160	30	-	-	-	115	21	Nr.2 - M20x70
E40.30.10030200	100	60	30	200	30	-	-	-	155	21	Nr.2 - M20x70
E40.30.10030250	100	60	30	250	30	-	125	-	205	21	Nr.3 - M20x70
E40.30.10030400	100	60	30	400	30	125	200	275	355	21	Nr.5 - M20x70
E40.30.12530160	125	75	30	160	30	-	-	-	115	21	Nr.2 - M20x70
E40.30.12530200	125	75	30	200	30	-	-	-	155	21	Nr.2 - M20x70
E40.30.12530250	125	75	30	250	30	-	125	-	205	21	Nr.3 - M20x70
E40.30.12530400	125	75	30	400	30	125	200	275	355	21	Nr.5 - M20x70

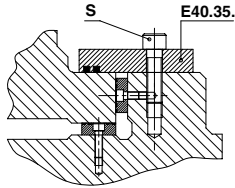
WEAR PLATE STEEL SELF-LUBRICATING
DECKLEISTE STAHL MIT FESTSCHMIERSTOFF
PIASTRA GUIDA IN ACCIAIO AUTOLUBRIFICANTE



Notes

Material: CK45 + Graphite
HRC: 58÷60

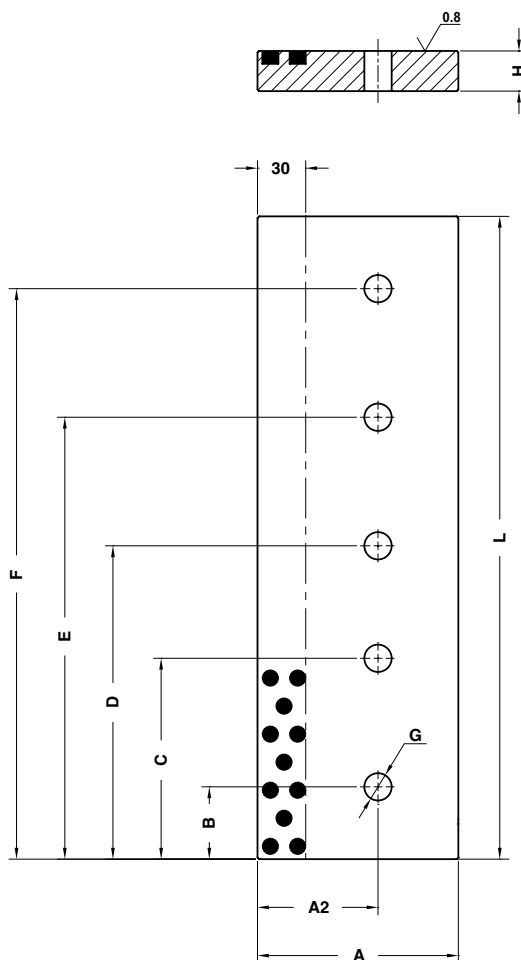
Application example



ORDER EXAMPLE	Art.	A=75	H=25	L1=200
	E40.35.	075	25	200

OMCR CODE	A	A2	A3	L	H	C	D	E	F	G	S
E40.35.07525160	75	40	25	160	25	-	-	-	115	17	Nr.2 - M16x60
E40.35.07525200	75	40	25	200	25	-	-	-	155	17	Nr.2 - M16x60
E40.35.07525250	75	40	25	250	25	-	125	-	205	17	Nr.3 - M16x60
E40.35.10025160	100	60	30	160	25	-	-	-	115	17	Nr.2 - M16x60
E40.35.10025200	100	60	30	200	25	-	-	-	155	17	Nr.2 - M16x60
E40.35.10025250	100	60	30	250	25	-	125	-	205	17	Nr.3 - M16x60
E40.35.10025400	100	60	30	400	25	125	200	275	355	17	Nr.5 - M16x60
E40.35.10030160	100	60	30	160	30	-	-	-	115	21	Nr.2 - M20x70
E40.35.10030200	100	60	30	200	30	-	-	-	155	21	Nr.2 - M20x70
E40.35.10030250	100	60	30	250	30	-	125	-	205	21	Nr.3 - M20x70
E40.35.10030400	100	60	30	400	30	125	200	275	355	21	Nr.5 - M20x70
E40.35.12530160	125	75	30	160	30	-	-	-	115	21	Nr.2 - M20x70
E40.35.12530200	125	75	30	200	30	-	-	-	155	21	Nr.2 - M20x70
E40.35.12530250	125	75	30	250	30	-	125	-	205	21	Nr.3 - M20x70
E40.35.12530400	125	75	30	400	30	125	200	275	355	21	Nr.5 - M20x70

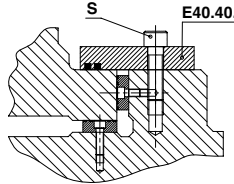
WEAR PLATE SELF-LUBRICATING
GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
PIASTRA GUIDA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

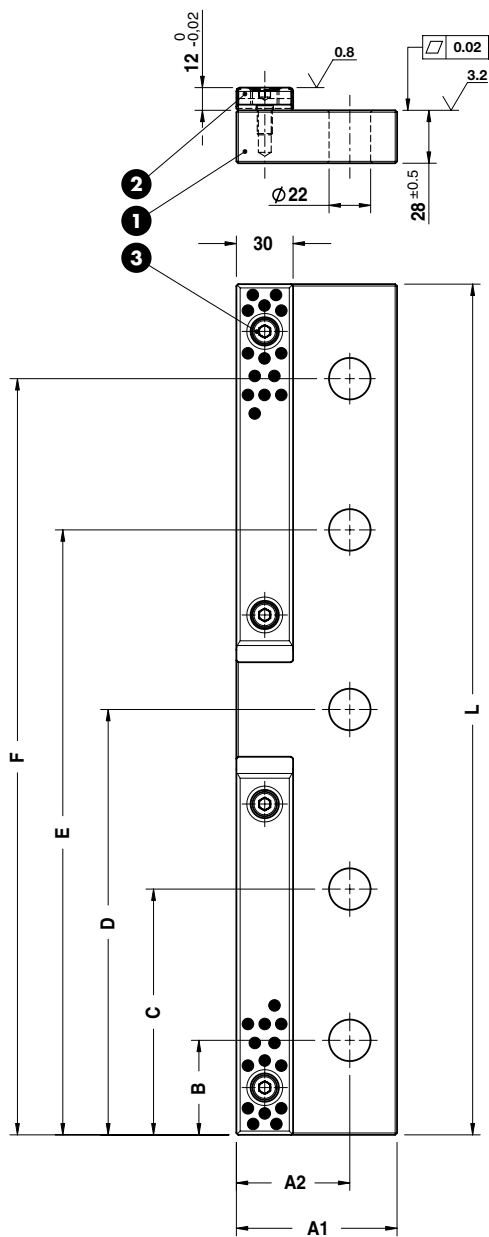
Application example



Art.	A=85	H=30	L=200
E40.40.	085	30	200

OMCR CODE	A	A2	L	H	B	C	D	E	F	G	S
E40.40.08530160	85	60	160	30	45	-	-	-	115	21	Nr.2 - M20x70
E40.40.08530200	85	60	200	30	45	-	-	-	155	21	Nr.2 - M20x70
E40.40.08530250	85	60	250	30	45	-	125	-	205	21	Nr.3 - M20x70
E40.40.08530300	85	60	300	30	45	-	150	-	255	21	Nr.3 - M20x70
E40.40.08530350	85	60	350	30	45	-	175	-	305	21	Nr.3 - M20x70
E40.40.08530400	85	60	400	30	45	125	200	275	355	21	Nr.5 - M20x70
E40.40.12525160	125	75	160	25	45	-	-	-	115	17	Nr.2 - M16x60
E40.40.12525200	125	75	200	25	45	-	-	-	155	17	Nr.2 - M16x60
E40.40.12525250	125	75	250	25	45	-	125	-	205	17	Nr.3 - M16x60
E40.40.12525400	125	75	400	25	45	125	200	275	355	17	Nr.5 - M16x60
E40.40.12530160	125	75	160	30	45	-	-	-	115	21	Nr.2 - M20x70
E40.40.12530200	125	75	200	30	45	-	-	-	155	21	Nr.2 - M20x70
E40.40.12530250	125	75	250	30	45	-	125	-	205	21	Nr.3 - M20x70
E40.40.12530300	125	75	300	30	45	-	150	-	255	21	Nr.3 - M20x70
E40.40.12530350	125	75	350	30	45	-	175	-	305	21	Nr.3 - M20x70
E40.40.12530400	125	75	400	30	45	125	200	275	355	21	Nr.5 - M20x70
E40.40.12530450	125	75	450	30	50	130	225	320	400	21	Nr.5 - M20x70
E40.40.12530500	125	75	500	30	50	130	250	370	450	21	Nr.5 - M20x70

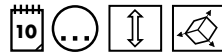
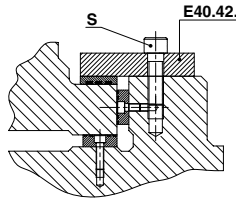
WEAR PLATE DECKLEISTE SCHIEBERFUHRUNG PIASTRA GUIDA



Notes

- 1** Material: 16MnCr5
- 2** E40.06.
- 3** DIN 912 M8x16

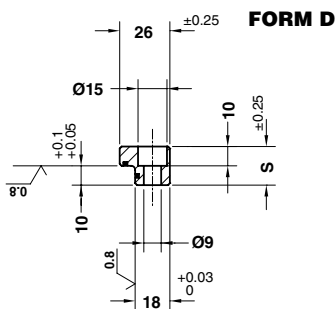
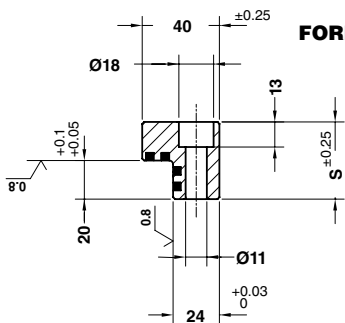
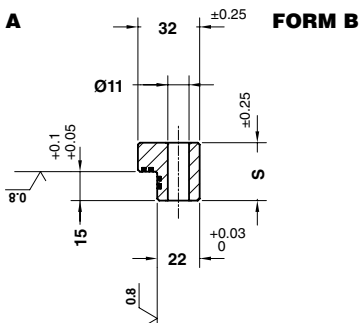
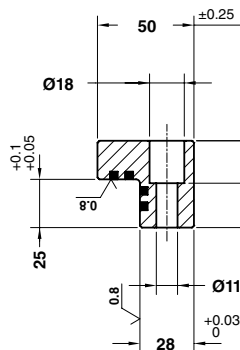
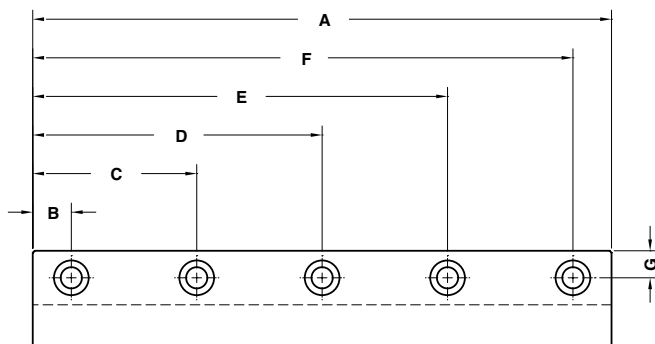
Application example



	Art.	A1=85	L=200
	E40.42.	085	200

OMCR CODE	A1	L	A2	B	C	D	E	F	S
E40.42.085160	85	160	60	45	115	-	-	-	Nr2 - M20x60
E40.42.085200	85	200	60	45	155	-	-	-	Nr2 - M20x60
E40.42.085250	85	250	60	45	125	205	-	-	Nr3 - M20x60
E40.42.085300	85	300	60	45	150	255	-	-	Nr3 - M20x60
E40.42.085350	85	350	60	45	175	305	-	-	Nr3 - M20x60
E40.42.085400	85	400	60	45	125	200	275	355	Nr5 - M20x60
E40.42.085450	85	450	60	50	130	225	320	400	Nr5 - M20x60
E40.42.085500	85	500	60	50	130	250	370	450	Nr5 - M20x60
E40.42.125160	125	160	75	45	115	-	-	-	Nr2 - M20x60
E40.42.125200	125	200	75	45	155	-	-	-	Nr2 - M20x60
E40.42.125250	125	250	75	45	125	205	-	-	Nr3 - M20x60
E40.42.125300	125	300	75	45	150	255	-	-	Nr3 - M20x60
E40.42.125350	125	350	75	45	175	305	-	-	Nr3 - M20x60
E40.42.125400	125	400	75	45	125	200	275	355	Nr5 - M20x60
E40.42.125450	125	450	75	50	130	225	320	400	Nr5 - M20x60
E40.42.125500	125	500	75	50	130	250	370	450	Nr5 - M20x60

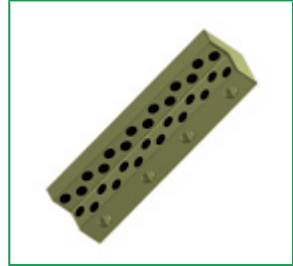
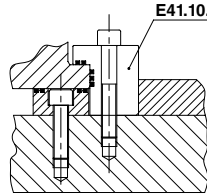
ANGULAR GUIDE SELF-LUBRICATING
WINKELLEISTE BRONZE MIT FESTSCHMIERSTOFF
GUIDA ANGOLARE AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

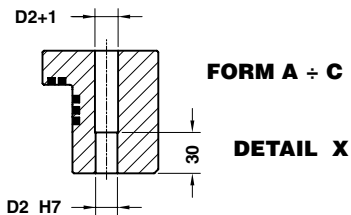
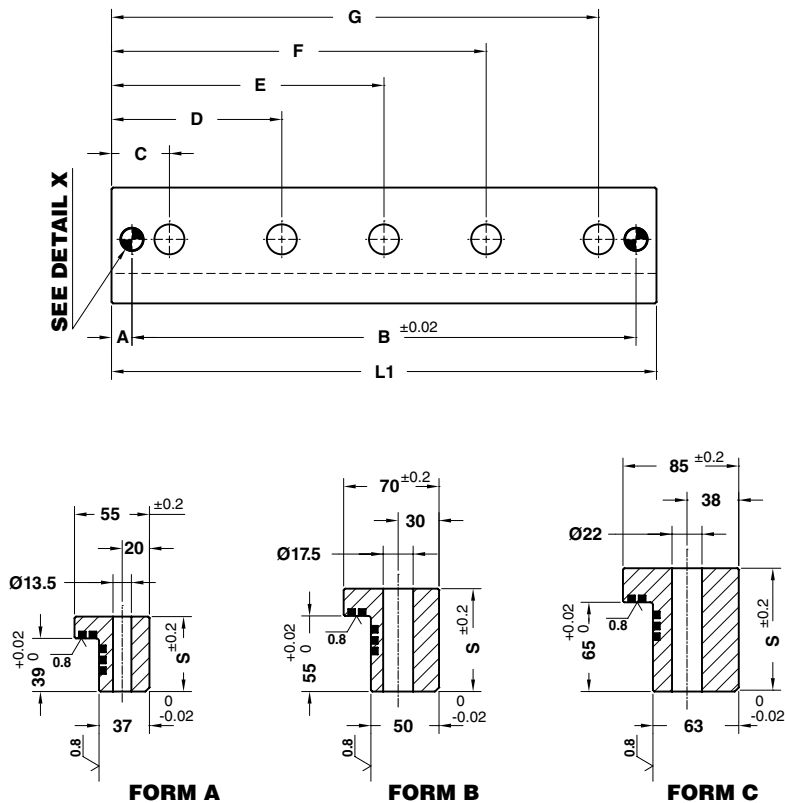
Application example



	Art.	S=30	A=150
	E41.10.	30	150

OMCR CODE	S	A	B	C	D	E	F	G	Form
E41.10.20100	20	100	20	80	-	-	-	9	D
E41.10.20150	20	150	20	75	130	-	-	9	D
E41.10.20200	20	200	20	75	125	180	-	9	D
E41.10.30100	30	100	20	80	-	-	-	11	B
E41.10.30150	30	150	20	75	130	-	-	11	B
E41.10.30200	30	200	20	75	125	180	-	11	B
E41.10.30250	30	250	20	90	160	230	-	11	B
E41.10.40160	40	160	15	145	-	-	-	12	C
E41.10.40250	40	250	15	145	225	-	-	12	C
E41.10.45200	45	200	20	75	125	180	-	14	A
E41.10.45250	45	250	20	90	160	230	-	14	A
E41.10.45300	45	300	20	85	150	215	280	14	A
E41.10.45350	45	350	20	100	175	250	330	14	A

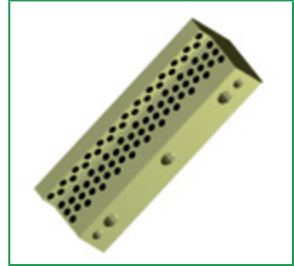
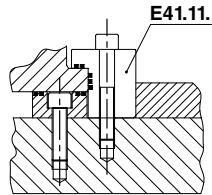
ANGULAR GUIDE SELF-LUBRICATING VDI 3357
WINKELLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
GUIDA ANGOLARE AUTOLUBRIFICANTE VDI 3357



Notes

Material: Bronze + Graphite
HB > 190

Application example



	Art.	S=75	L1=250
	E41.11.	75	250

OMCR CODE	S	L1	A	B	C	D	E	F	G	D2	Form
E41.11.55100	55	100	10	80	27,5	-	-	-	72,5	10	A
E41.11.55160	55	160	10	140	27,5	-	-	-	132,5	10	A
E41.11.75160	75	160	12,5	135	35	-	-	-	125	12	B
E41.11.75200	75	200	12,5	175	35	-	-	-	165	12	B
E41.11.75250	75	250	12,5	225	35	-	125	-	215	12	B
E41.11.75400	75	400	12,5	375	35	125	200	275	365	12	B
E41.11.90160	90	160	15	130	42,5	-	-	-	117,5	16	C
E41.11.90200	90	200	15	170	42,5	-	-	-	157,5	16	C
E41.11.90250	90	250	15	220	42,5	-	125	-	207,5	16	C
E41.11.90400	90	400	15	370	42,5	125	200	275	357,5	16	C

GUIDE BAR SELF-LUBRICATING FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF LARDONE AUTOLUBRIFICANTE

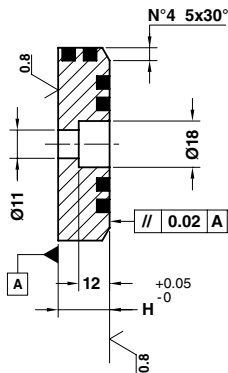
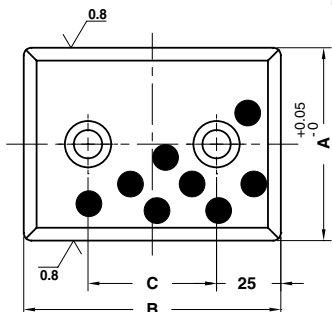
Notes

Material: Bronze + Graphite
HB > 190

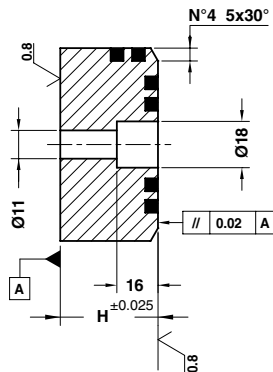
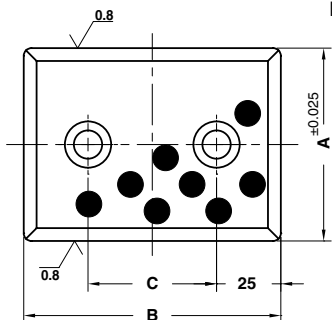
STOCK



FORM A



FORM B



Art.	A=48	H=20	B=100
E42.10.	48	20	100

OMCR CODE	A	B	H	C	Form
E42.10.4820100	48	100	20	50	A
E42.10.4820150	48	150	20	100	A
E42.10.7520100	75	100	20	50	A
E42.10.7520150	75	150	20	100	A
E42.10.7538100	75	100	38	50	B
E42.10.7538150	75	150	38	100	B

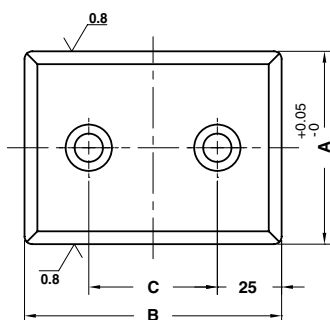
GUIDE BAR STEEL FÜHRUNGSLAISTE STAHL LARDONE IN ACCIAIO

Notes

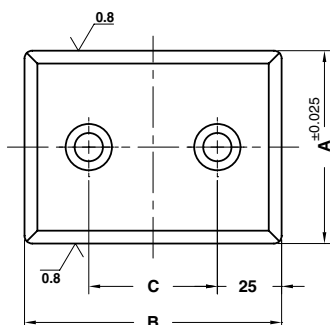
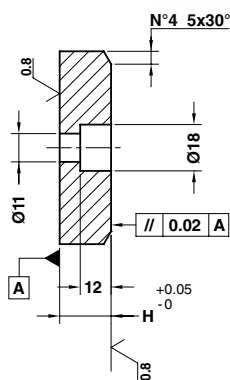
Material: 16MnCr5

HRC: 58÷60

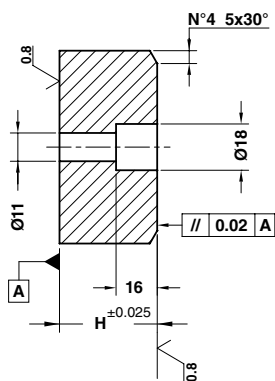
STOCK



FORM A



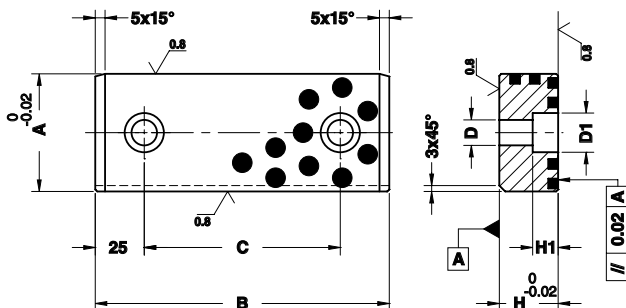
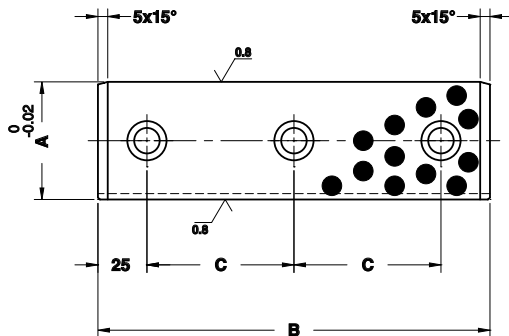
FORM B



Art.	A=48	H=20	B=100
E42.11.	48	20	100

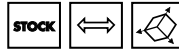
OMCR CODE	A	B	H	C	Form
E42.11.4820100	48	100	20	50	A
E42.11.4820150	48	150	20	100	A
E42.11.7520100	75	100	20	50	A
E42.11.7520150	75	150	20	100	A
E42.11.7538100	75	100	38	50	B
E42.11.7538150	75	150	38	100	B

GUIDE BAR SELF-LUBRICATING VDI 3357
FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
LARDONE AUTOLUBRIFICANTE VDI 3357

FORM A**FORM B**

Notes

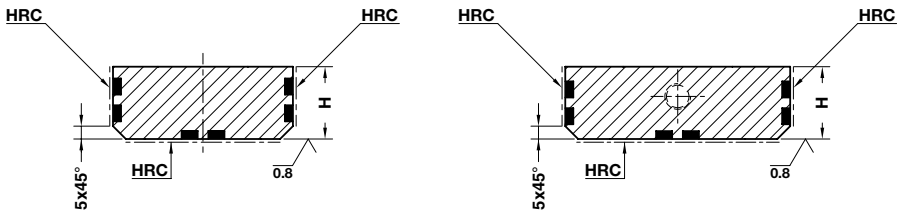
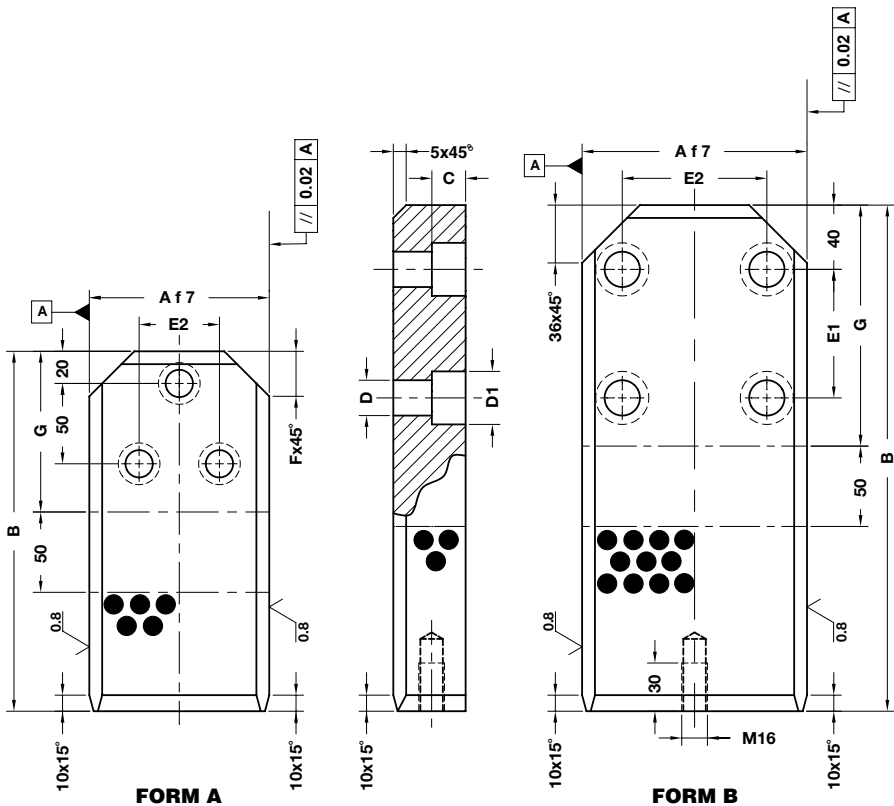
Material: Bronze + Graphite
HB > 190



	Art.	A=60	H=30	B=125
	E42.12.	60	30	125

OMCR CODE	A	B	C	H	D	D1	H1	Form
E42.12.2512110	25	110	60	12	9	13	9	A
E42.12.2512120	25	120	70	12	9	13	9	A
E42.12.2515110	25	110	60	15	11	18	11	A
E42.12.2515120	25	120	70	15	11	18	11	A
E42.12.6030125	60	125	75	30	13	20	13	A
E42.12.6030150	60	150	100	30	13	20	13	A
E42.12.6030160	60	160	110	30	13	20	13	A
E42.12.6030200	60	200	75	30	13	20	13	B
E42.12.6040125	60	125	75	40	13	20	13	A
E42.12.6040150	60	150	100	40	13	20	13	A
E42.12.6040160	60	160	110	40	13	20	13	A
E42.12.6040200	60	200	75	40	13	20	13	B

GUIDE STEEL SELF-LUBRICATING
FÜHRUNGSLASCHE STAHL MIT FESTSCHMIERSTOFF
LARDONE IN ACCIAIO AUTOLUBRIFICANTE



Notes

Material: CK45 + Graphite

HRC: 58÷60



	Art.	A=71	H=36	B=224
	E42.13.	071	36	224

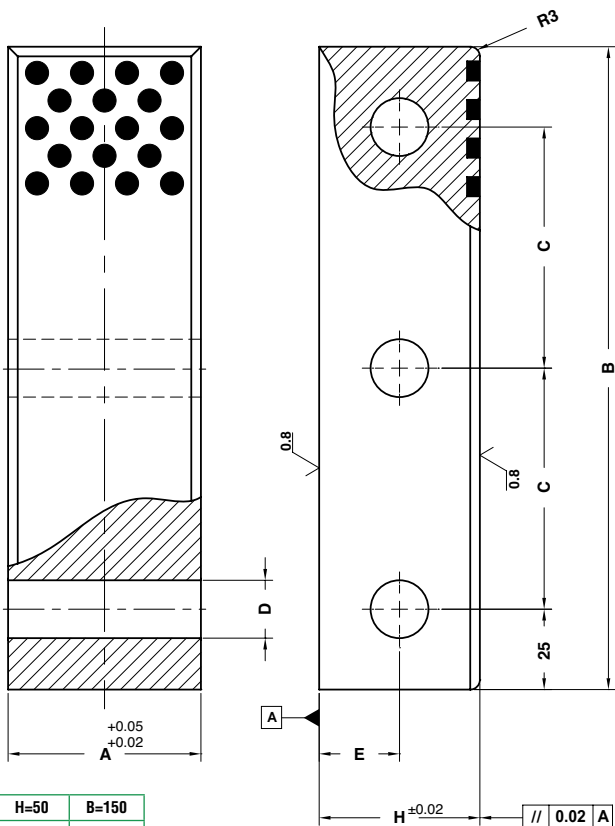
OMCR CODE	A	B	H	C	D	D1	E1	E2	F	G	Form
E42.13.06336180	63	180	36	16	13	20	-	36	18	90	A
E42.13.06336200	63	200	36	16	13	20	-	36	18	90	A
E42.13.06336224	63	224	36	16	13	20	-	36	18	90	A
E42.13.07136180	71	180	36	16	13	20	-	36	18	90	A
E42.13.07136200	71	200	36	16	13	20	-	36	18	90	A
E42.13.07136224	71	224	36	16	13	20	-	36	18	90	A
E42.13.09045200	90	200	45	21	17	26	-	50	28	100	A
E42.13.09045224	90	224	45	21	17	26	-	50	28	100	A
E42.13.09045250	90	250	45	21	17	26	-	50	28	100	A
E42.13.11245200	112	200	45	21	17	26	-	50	28	100	A
E42.13.11245224	112	224	45	21	17	26	-	50	28	100	A
E42.13.11245250	112	250	45	21	17	26	-	50	28	100	A
E42.13.14045315	140	315	45	26	22	33	80	90	-	150	B
E42.13.14045400	140	400	45	26	22	33	80	90	-	150	B
E42.13.14056315	140	315	56	26	22	33	80	90	-	150	B
E42.13.14056400	140	400	56	26	22	33	80	90	-	150	B
E42.13.19045315	190	315	45	26	22	33	80	90	-	150	B
E42.13.19045400	190	400	45	26	22	33	80	90	-	150	B
E42.13.19056315	190	315	56	26	22	33	80	90	-	150	B
E42.13.19056400	190	400	56	26	22	33	80	90	-	150	B
E42.13.24056500	240	500	56	31	26	40	160	160	-	250	B
E42.13.24056630	240	630	56	31	26	40	160	160	-	250	B

GUIDE BAR SELF-LUBRICATING FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF LARDONE AUTOLUBRIFICANTE

Notes

Material: Bronze + Graphite
HB > 190

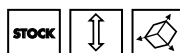
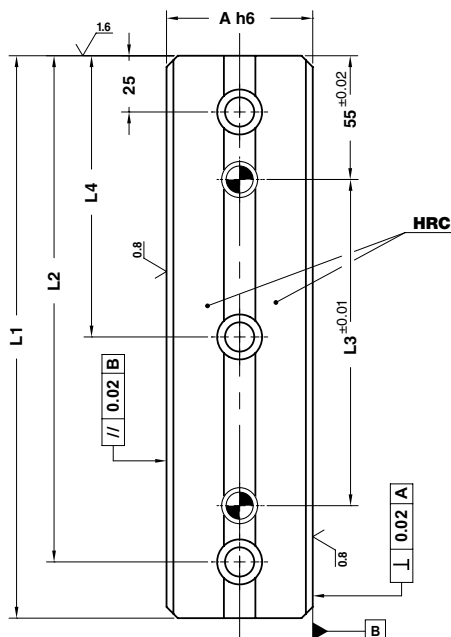
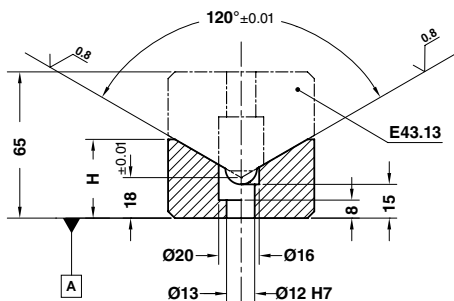
STOCK



Art.	A=60	H=50	B=150
E42.15.	060	50	150

OMCR CODE	A	B	C	D	E	H
E42.15.040040150	40	150	50	14	20	40
E42.15.040040200	40	200	75	14	20	40
E42.15.060050150	60	150	50	18	25	50
E42.15.060050200	60	200	75	18	25	50

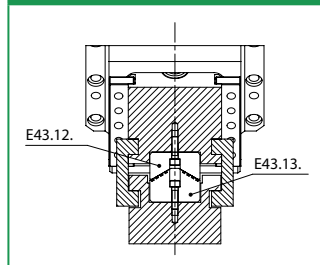
"V" DRIVER STEEL VDI 3357 PRISMENFÜHRUNG VDI 3357 GUIDA A "V" IN ACCIAIO VDI 3357



Notes

Material: CK45
HRC: 58÷60

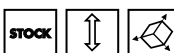
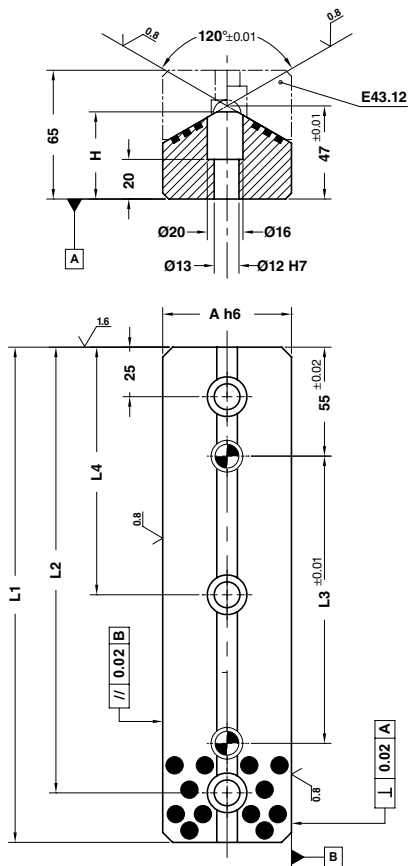
Application example



Art.	A=65	H=35	L1=150
E43.12.	065	35	150

OMCR CODE	A	H	L1	L2	L3	L4
E43.12.06535150	65	35	150	125	45	-
E43.12.06535200	65	35	200	175	95	-
E43.12.06535250	65	35	250	225	145	125
E43.12.06535300	65	35	300	275	195	150

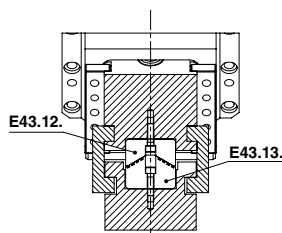
"V" DRIVER SELF-LUBRICATING VDI 3357 PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357 GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



Notes

Material: Bronze + Graphite
HB > 190

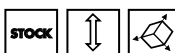
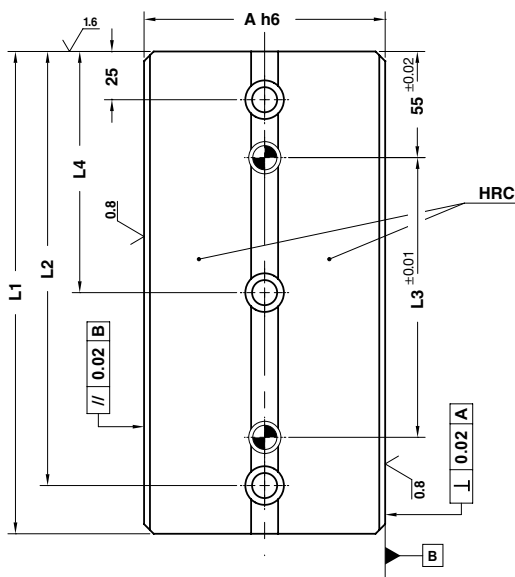
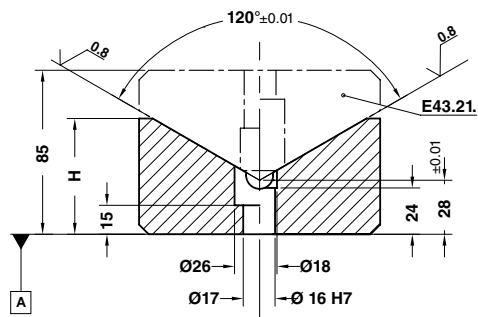
Application example



Art.	A=65	H=44	L1=150
E43.13.	065	44	150

OMCR CODE	A	H	L1	L2	L3	L4
E43.13.06544150	65	44	150	125	45	-
E43.13.06544200	65	44	200	175	95	-
E43.13.06544250	65	44	250	225	145	125
E43.13.06544300	65	44	300	275	195	150

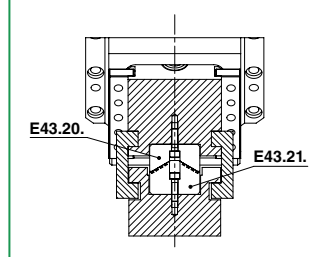
"V" DRIVER STEEL VDI 3357 PRISMENFÜHRUNG VDI 3357 GUIDA A "V" IN ACCIAIO VDI 3357



Notes

Material: CK45
HRC: 58÷60

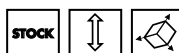
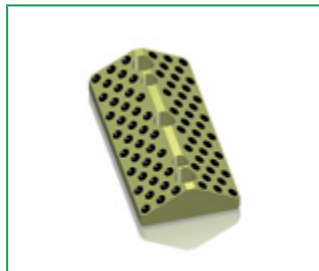
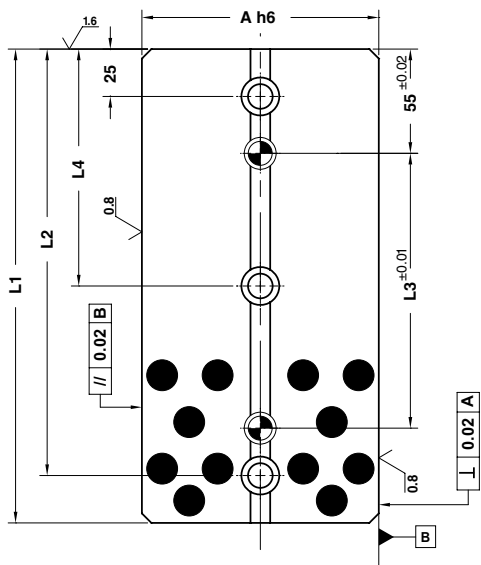
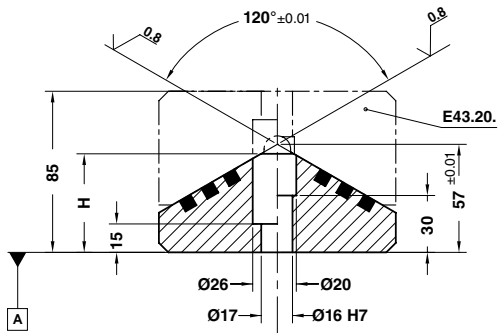
Application example



ORDER EXAMPLE	Art.	A=125	H=60	L1=150
	E43.20.	125	60	150

OMCR CODE	A	H	L1	L2	L3	L4
E43.20.12560150	125	60	150	125	45	-
E43.20.12560200	125	60	200	175	95	-
E43.20.12560250	125	60	250	225	145	125
E43.20.12560300	125	60	300	275	195	150

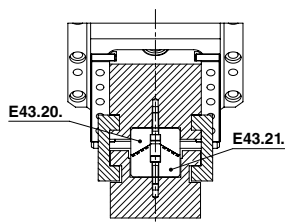
"V" DRIVER SELF-LUBRICATING VDI 3357 PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357 GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



Notes

Material: Bronze + Graphite
HB > 190

Application example



Art.	A=125	H=52	L1=200
E43.21.	125	52	200

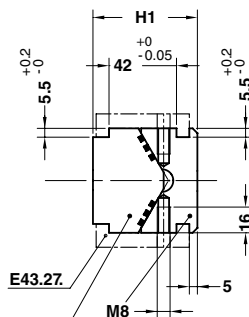
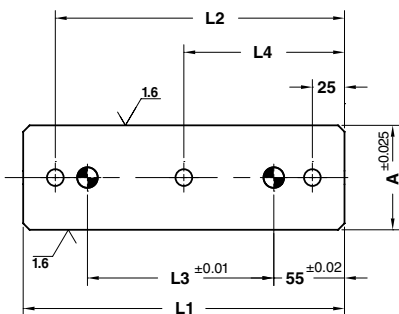
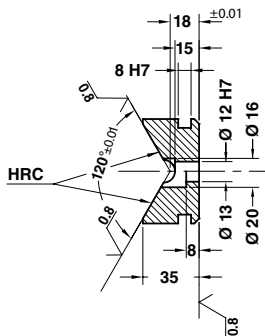
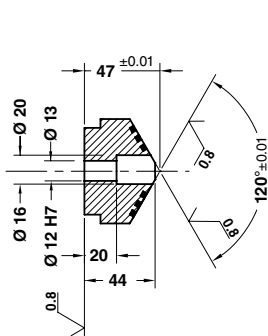
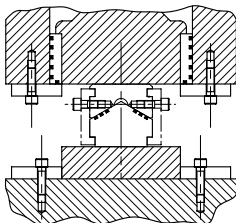
OMCR CODE	A	H	L1	L2	L3	L4
E43.21.12552150	125	52	150	125	45	-
E43.21.12552200	125	52	200	175	95	-
E43.21.12552250	125	52	250	225	145	125
E43.21.12552300	125	52	300	275	195	150

"V" DRIVER SET PRISMENFUHRUNG GRUPPE SET DI GUIDE A "V"

Notes

- 1** Material: Bronze + Graphite
HB > 190
- 2** Material: CK45
HRC: 58÷60

Application example



Art.	A=65	H1=65	L1=200
E43.25.	65	65	200

OMCR CODE	A	H1	L1	L2	L3	L4
E43.25.6565150	65	65	150	125	45	-
E43.25.6565200	65	65	200	175	95	-
E43.25.6565250	65	65	250	225	145	125
E43.25.6565300	65	65	300	275	195	150

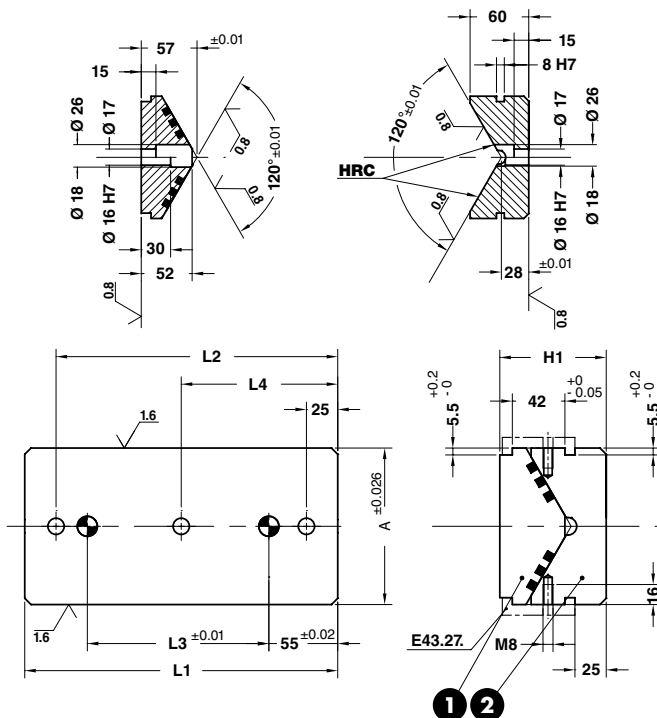
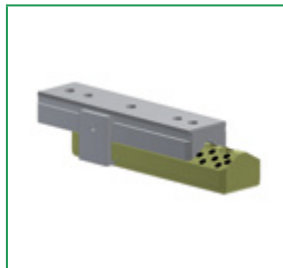
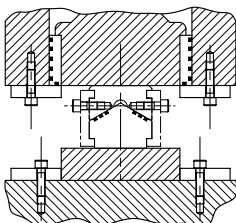
Sliding Elements

"V" DRIVER SET PRISMENFUHRUNG GRUPPE SET DI GUIDE A "V"

Notes

- 1** **Material:** Bronze + Graphite
HB > 190
- 2** **Material:** CK45
HRC: 58÷60

Application example



ORDER EXAMPLE	Art.	A=125	H1=85	L1=250
E43.26.	125	85	250	

OMCR CODE	A	H1	L1	L2	L3	L4
E43.26.12585150	125	85	150	125	45	-
E43.26.12585200	125	85	200	175	95	-
E43.26.12585250	125	85	250	225	145	125
E43.26.12585300	125	85	300	275	195	150

**POSITIVE RETURN
ZWANGSRÜCKHOLER
GANCIO**

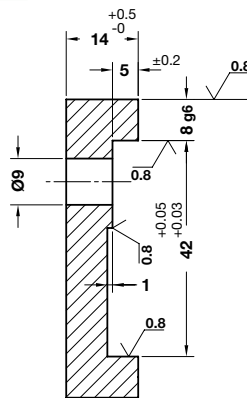
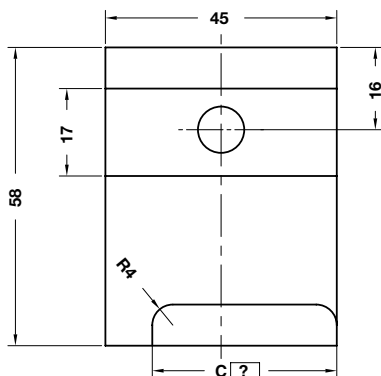
Notes

Material: 42CrMo4

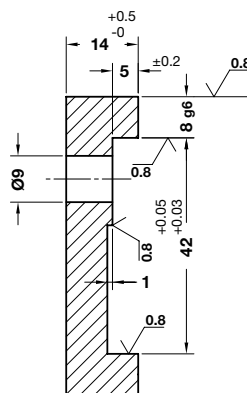
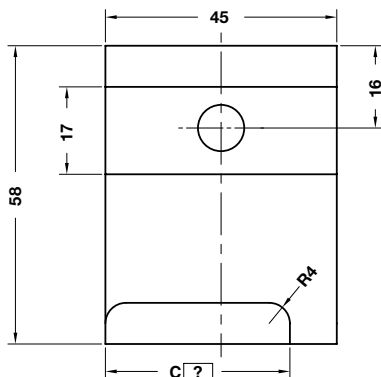
STOCK



TYPE 01



TYPE 02

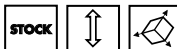
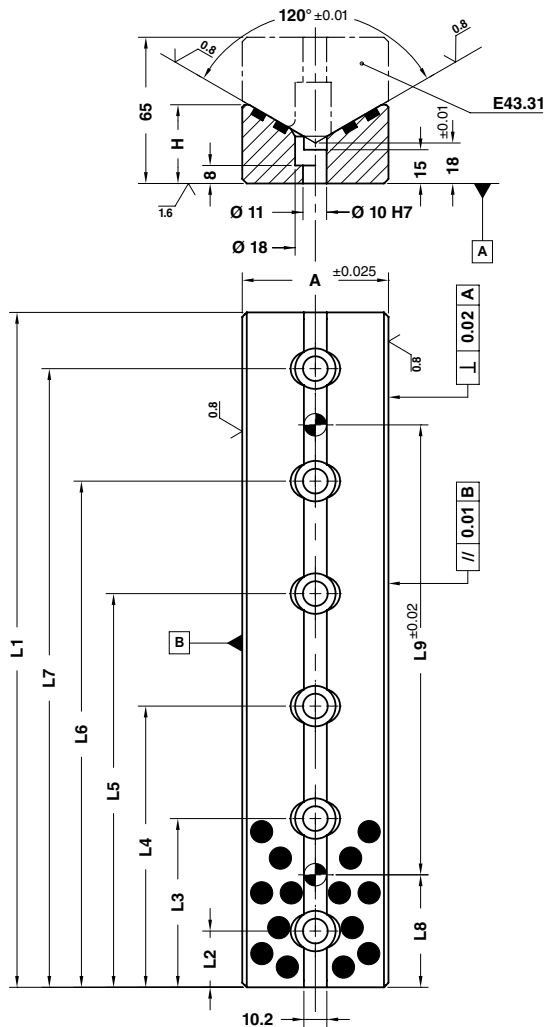


Art.	Type	C
E43.27.	01	?

OMCR CODE	Type
E43.27.01	01
E43.27.02	02

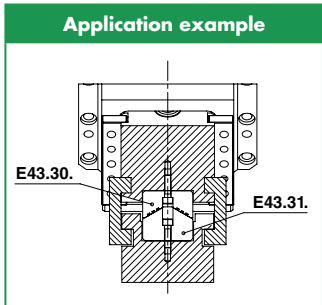
Sliding Elements

**"V" DRIVER SELF-LUBRICATING
PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
GUIDA A "V" AUTOLUBRIFICANTE**



Notes

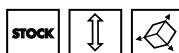
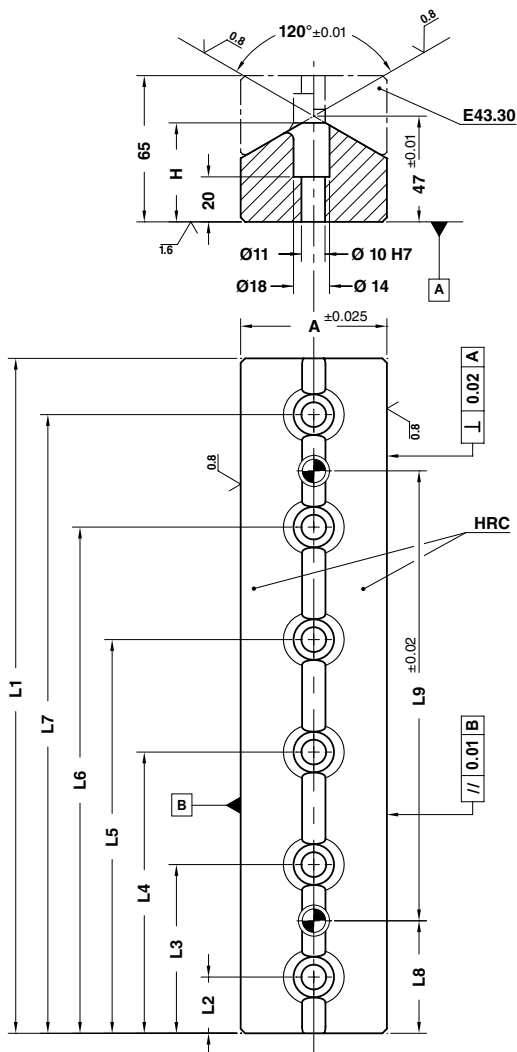
Material: Bronze + Graphite
HB > 190



ORDER EXAMPLE	Art.	A=65	H=35	L1=300
	E43.30.	65	35	300

OMCR CODE	A	H	L1	L2	L3	L4	L5	L6	L7	L8	L9
E43.30.6535100	65	35	100	20	80	-	-	-	-	40	20
E43.30.6535150	65	35	150	25	75	125	-	-	-	50	50
E43.30.6535200	65	35	200	25	75	125	175	-	-	50	100
E43.30.6535250	65	35	250	25	75	125	175	225	-	50	150
E43.30.6535300	65	35	300	25	75	125	175	225	275	50	200

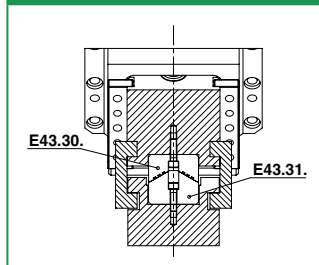
"V" DRIVER STEEL PRISMENFÜHRUNG GUIDA A "V" IN ACCIAIO



Notes

Material: CK45 - **HRC:** 58 ÷ 60

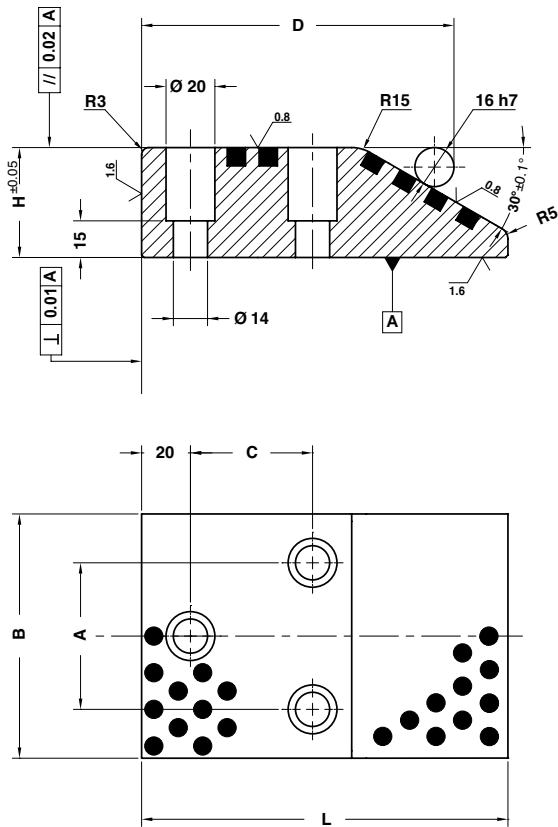
Application example



Art.	A=65	H=44	L1=250
E43.31.	65	44	250

OMCR CODE	A	H	L1	L2	L3	L4	L5	L6	L7	L8	L9
E43.31.6544100	65	44	100	20	80	-	-	-	-	40	20
E43.31.6544150	65	44	150	25	75	125	-	-	-	50	50
E43.31.6544200	65	44	200	25	75	125	175	-	-	50	100
E43.31.6544250	65	44	250	25	75	125	175	225	-	50	150
E43.31.6544300	65	44	300	25	75	125	175	225	275	50	200

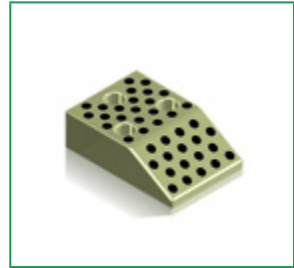
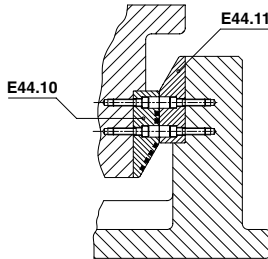
CAM DWELL WEAR PLATE SELF-LUBRICATING
ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
CUNEO AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

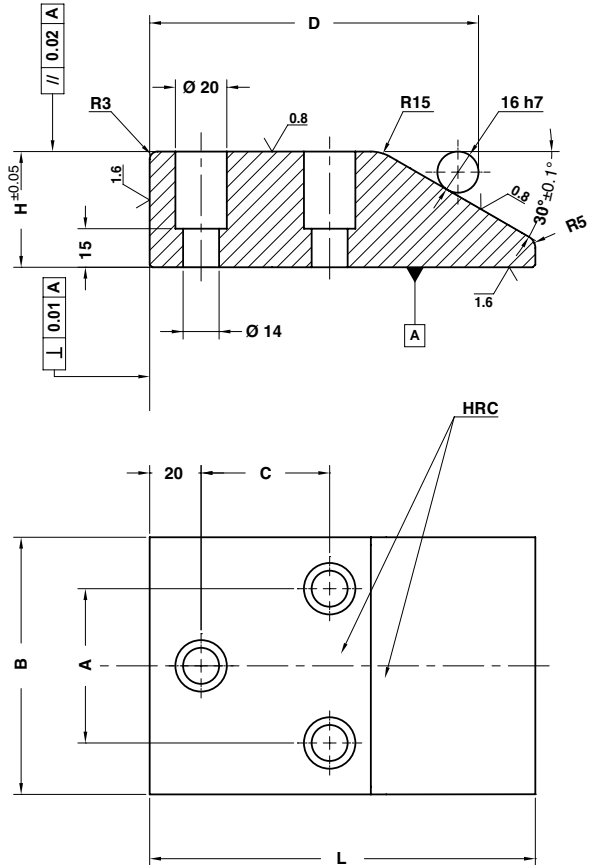
Application example



	Art.	B=125	H=60	L=170
	E44.10.	125	60	170

OMCR CODE	B	H	L	A	C	D
E44.10.10030125	100	30	125	60	50	132,8
E44.10.12530125	125	30	125	85	50	132,8
E44.10.16030125	160	30	125	120	50	132,8
E44.10.10045150	100	45	150	60	45	127,9
E44.10.12545150	125	45	150	85	45	127,9
E44.10.16045150	160	45	150	120	45	127,9
E44.10.10060170	100	60	170	60	45	127,9
E44.10.12560170	125	60	170	85	45	127,9
E44.10.16060170	160	60	170	120	45	127,9

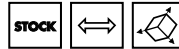
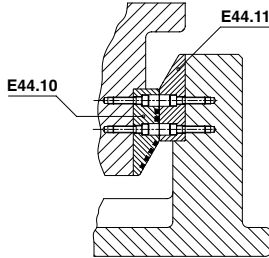
CAM DWELL WEAR PLATE STEEL
ÜBERLAUFKEILE STAHL
CUNEO IN ACCIAIO




Notes

Material: 42CrMo4
HRC: 58÷60

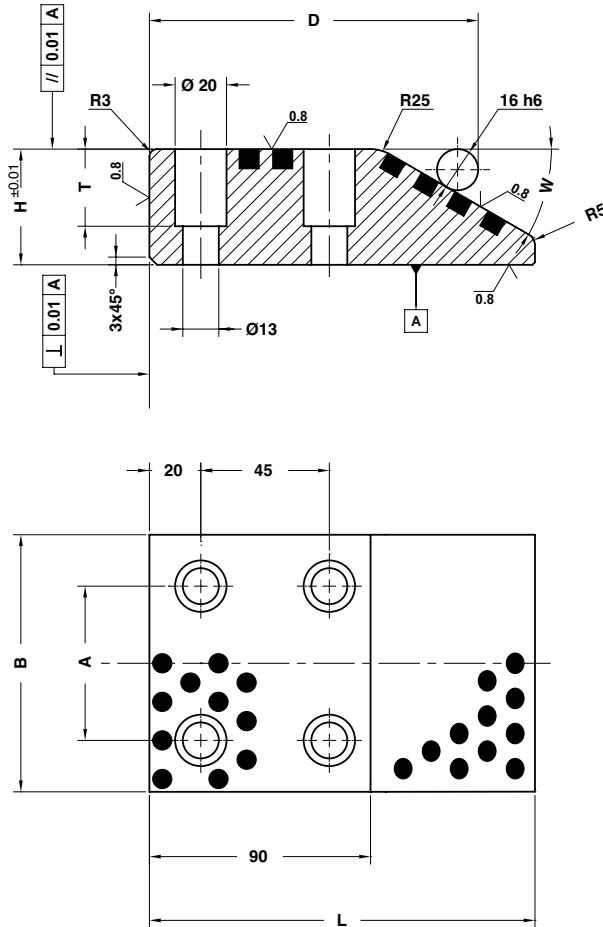
Application example



	Art.	B=125	H=60	L=170
	E44.11.	125	60	170

OMCR CODE	B	H	L	A	C	D
E44.11.10030125	100	30	125	60	50	132,8
E44.11.12530125	125	30	125	85	50	132,8
E44.11.16030125	160	30	125	120	50	132,8
E44.11.10045150	100	45	150	60	45	127,9
E44.11.12545150	125	45	150	85	45	127,9
E44.11.16045150	160	45	150	120	45	127,9
E44.11.10060170	100	60	170	60	45	127,9
E44.11.12560170	125	60	170	85	45	127,9
E44.11.16060170	160	60	170	120	45	127,9

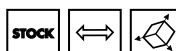
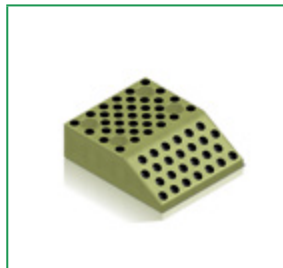
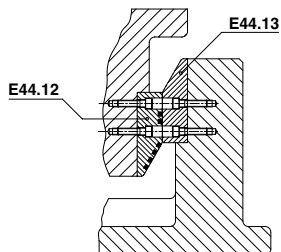
CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
CUNEO AUTOLUBRIFICANTE VDI 3357



Notes

Material: Bronze + Graphite
HB > 190

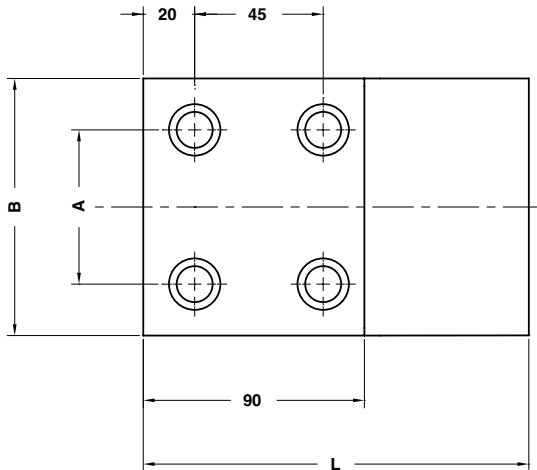
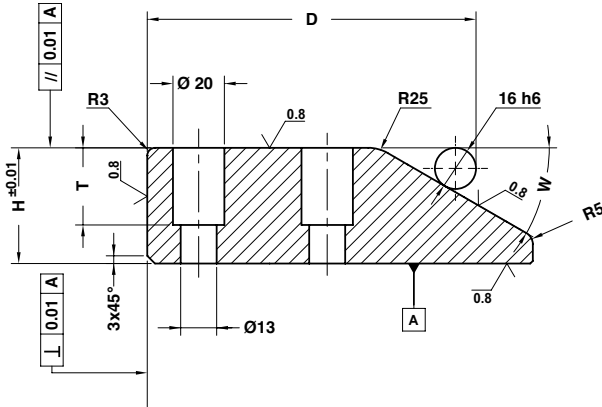
Application example



Art.	B=125	H=60	L=170
E44.12.	125	60	170

OMCR CODE	B	H	L	A	D	T	W
E44.12.10045150	100	45	150	60	127,86	30	30°
E44.12.12545150	125	45	150	85	127,86	30	30°
E44.12.15045150	150	45	150	110	127,86	30	30°
E44.12.10045170	100	45	170	60	143,37	30	20°
E44.12.12545170	125	45	170	85	143,37	30	20°
E44.12.15045170	150	45	170	110	143,37	30	20°
E44.12.10060170	100	60	170	60	127,86	45	30°
E44.12.12560170	125	60	170	85	127,86	45	30°
E44.12.15060170	150	60	170	110	127,86	45	30°

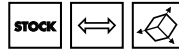
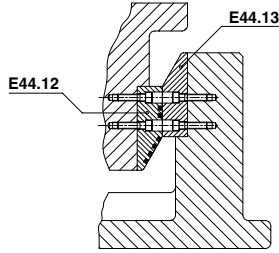
CAM DOWEL WEAR PLATE STEEL VDI 3357 ÜBERLAUFKEILE STAHL VDI 3357 CUNEO IN ACCIAIO VDI 3357



Notes

Material: X155CrMo121KU
HRC: 58÷62

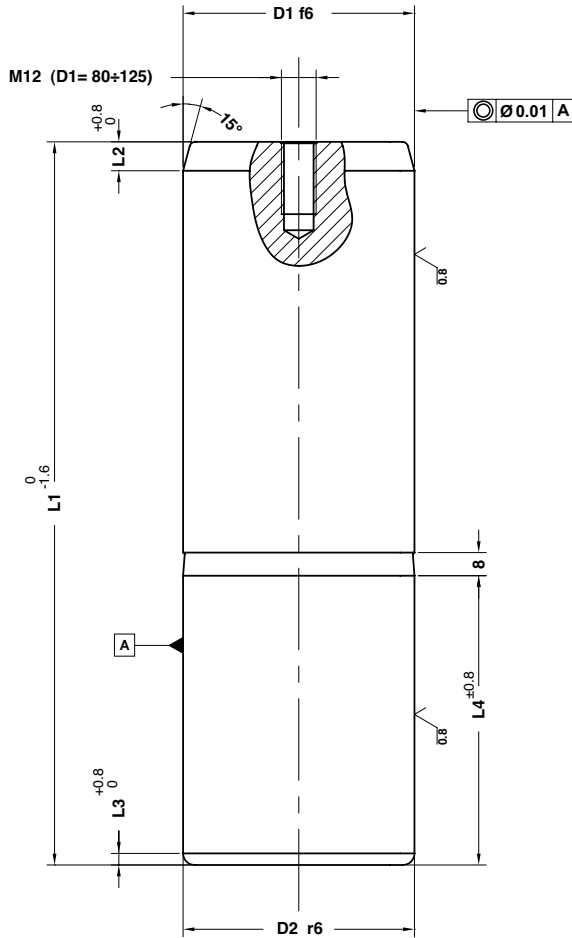
Application example



	Art.	B=125	H=60	L=170
	E44.13.	125	60	170

OMCR CODE	B	H	L	A	D	T	W
E44.13.10045150	100	45	150	60	127,86	30	30°
E44.13.12545150	125	45	150	85	127,86	30	30°
E44.13.15045150	150	45	150	110	127,86	30	30°
E44.13.10045170	100	45	170	60	143,37	30	20°
E44.13.12545170	125	45	170	85	143,37	30	20°
E44.13.15045170	150	45	170	110	143,37	30	20°
E44.13.10060170	100	60	170	60	127,86	45	30°
E44.13.12560170	125	60	170	85	127,86	45	30°
E44.13.15060170	150	60	170	110	127,86	45	30°

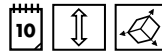
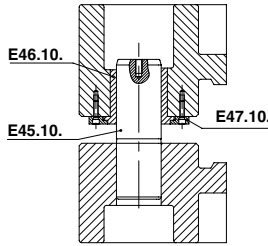
GUIDE POST DIN 9833
FÜHRUNGSSÄULE DIN 9833
COLONNA DIN 9833



Notes

Material: 16MnCr5
HRC: 60÷62

Application example

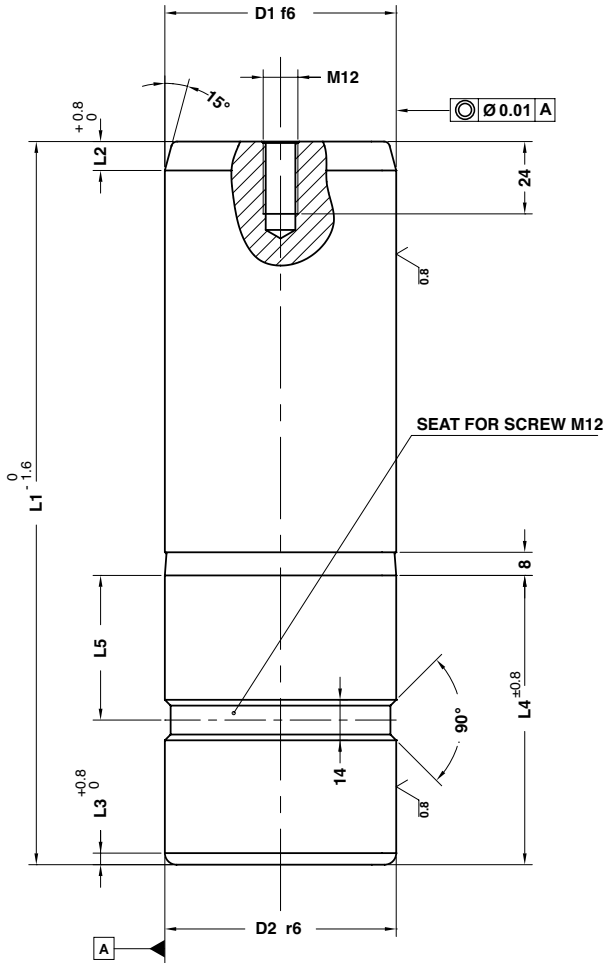


ORDER EXAMPLE	Art.	D1=80	L1=280
	E45.10.	080	280

D1	25	32	40	50	63	80	100	125
D2	25	32	40	50	63	80	100	125
L2	8	8	8	10	10	10	10	12
L3	4	4	4	4	4	4	4	5
L4	40	45	56	70	80	100	125	140

L1								
125	•							
140	•	•	•					
160	•	•	•	•				
180	•	•	•	•	•			
200		•	•	•	•			
224			•	•	•	•		
250			•	•	•	•		
280			•	•	•	•	•	
315				•	•	•	•	•
355				•	•	•	•	•
400					•	•	•	•
450								•
500								•

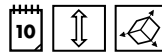
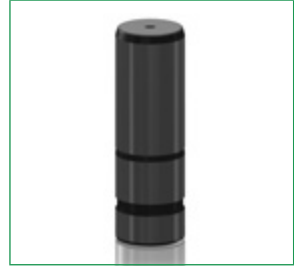
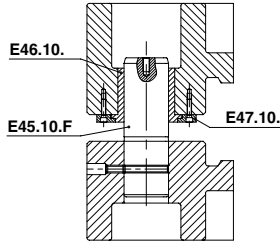
GUIDE POST DIN 9833
FÜHRUNGSSÄULE DIN 9833
COLONNA DIN 9833



Notes

Material: 16MnCr5
HRC: 60÷62

Application example

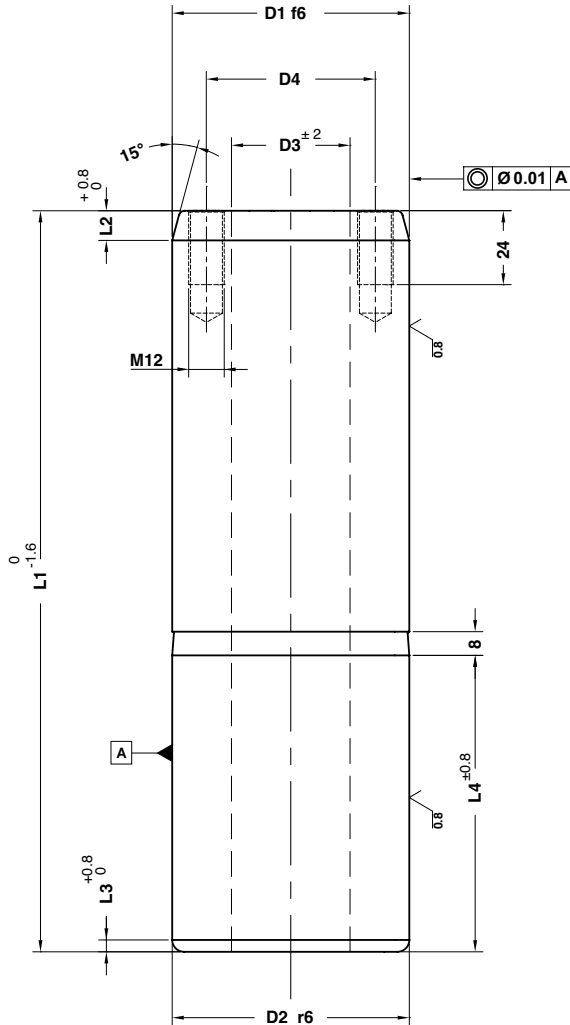


ORDER EXAMPLE	Art.	D1=80	L1=224	Type
	E45.10.	080	224	F

D1	80	100	125
D2	80	100	125
L2	10	10	12
L3	4	4	4
L4	100	125	140
L5	50	60	70
TYPE	F	F	F

L1			
224	•		
250	•		
280	•	•	
315	•	•	•
355	•	•	•
400	•	•	•
450			•
500			•

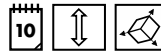
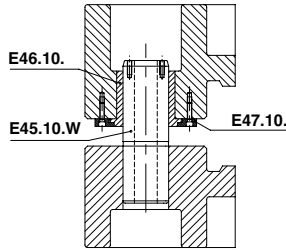
**GUIDE POST DIN 9833
FÜHRUNGSSÄULE DIN 9833
COLONNA DIN 9833**



Notes

Material: 16MnCr5
HRC: 60÷62

Application example



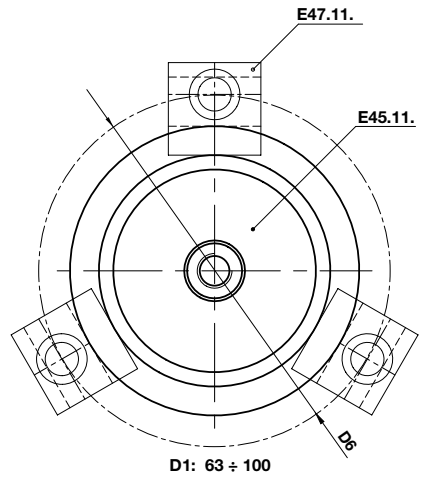
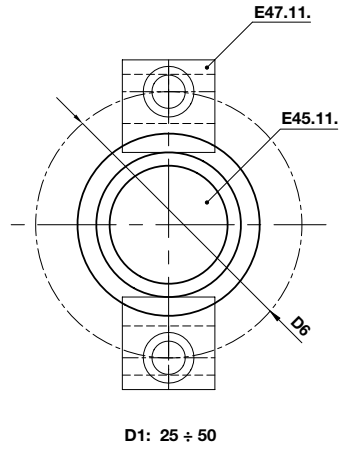
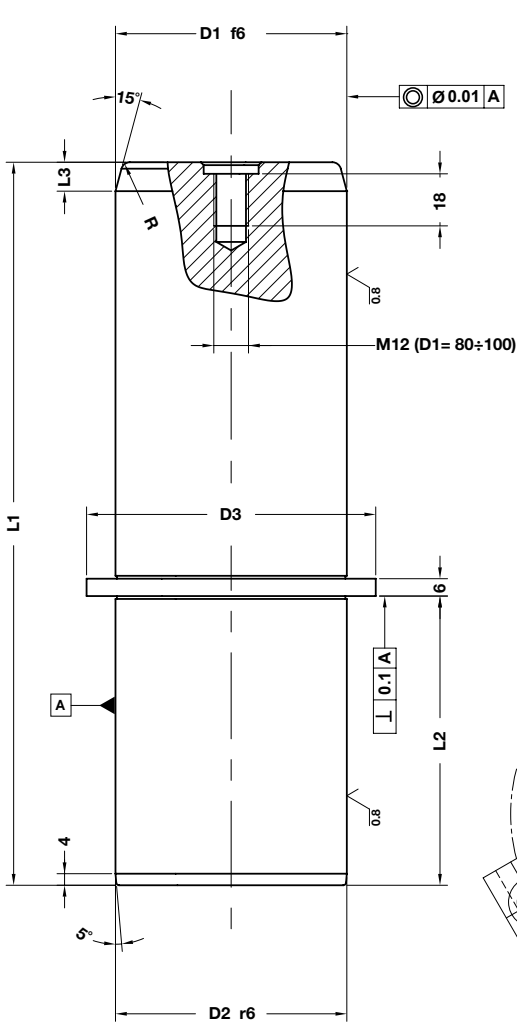
ORDER EXAMPLE	Art.	D1=80	L1=224	Type
	E45.10.	080	224	W

D1	80	100	125	160
D2	80	100	125	160
D3	40	50	65	95
D4	58	72	90	132
L2	10	10	12	12
L3	4	4	4	5
L4	100	125	140	180
TYPE	W	W	W	W

L1

224	•			
250	•			
280	•	•		
315	•	•	•	
355	•	•	•	
400	•	•	•	•
450			•	•
500			•	•
560				•

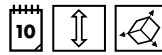
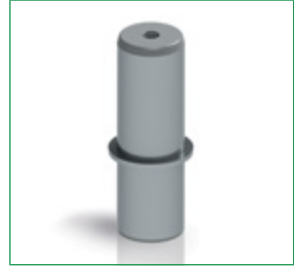
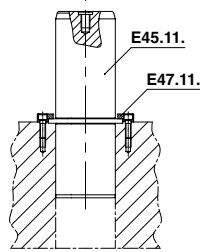
GUIDE POST NAAMS
FÜHRUNGSSÄULE NAAMS
COLONNA NAAMS



Notes

Material: 16MnCr5
HRC: 60÷62

Application example



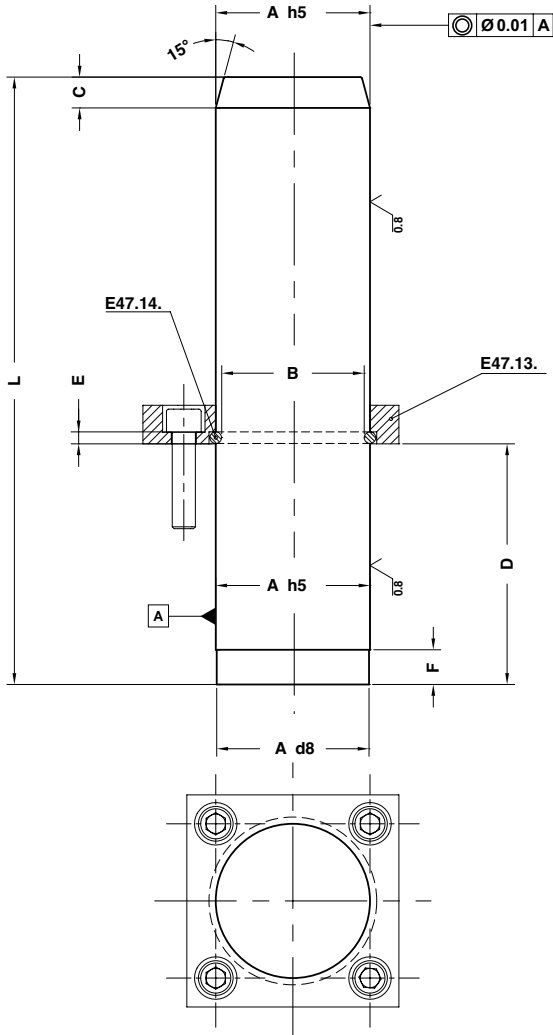
ORDER EXAMPLE	Art.	D1=80	L1=280
	E45.11.	080	280

D1	25	32	40	50	63	80	100
D2	25	32	40	50	63	80	100
D3	33	40	50	60	80	90	110
D6	68	75	83	93	106	123	143
L2	40	45	56	70	80	100	125
L3	4	8	8	10	10	10	10
R	2	2	2	2,5	2,5	3	3

L1

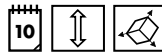
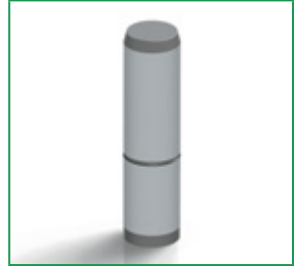
140	•	•					
160	•	•	•	•			
180	•	•	•	•			
200		•	•	•	•		
225			•	•	•		
250			•	•	•	•	
280				•	•	•	
315				•	•	•	•
355					•	•	•
400					•	•	•
500						•	•

**AFNOR GUIDE POST
FÜHRUNGSSÄULE AFNOR
COLONNA AFNOR**



Notes

Material: 16MnCr5
HRC: 60÷62

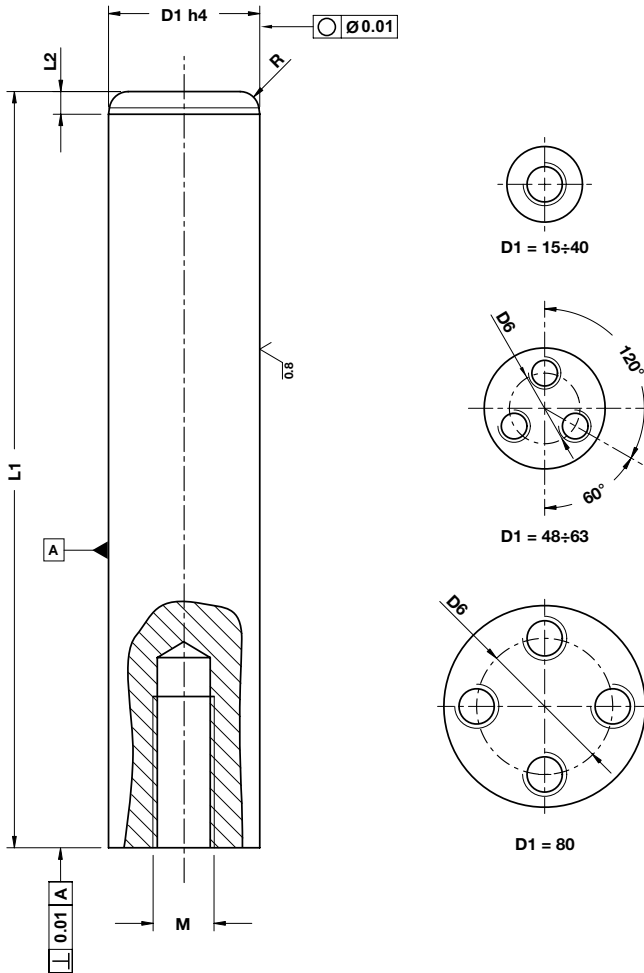


ORDER EXAMPLE 	Art.	A=40	L=250
	E45.12.	040	250

A	25	32	40	50	63	80	100
B	22,3	27,8	35,8	45,8	56,8	73,8	93,8
C	8	10	12	16	16	16	16
D	25	32	63	80	100	125	160
E	2,7	4,2	4,2	4,2	6,2	6,2	6,2
F	8	12	12	12	18	18	18

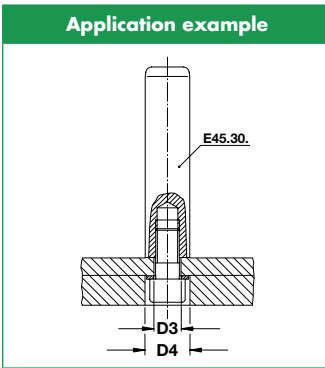
L							
100	•						
125	•	•					
140	•	•					
160	•	•					
180	•	•	•				
200	•	•	•	•			
220	•	•	•	•			
250		•	•	•	•		
280			•	•	•		
315			•	•	•	•	
355				•	•	•	•
400				•	•	•	•
450						•	•
500							•

GUIDE POST ENDWISE BOLT-ON TYPE
FÜHRUNGSSÄULE ZUM ANSCHRAUBEN
COLONNA DA AVVITARE



Notes

Material: 16MnCr5
HRC: 60÷62



ORDER EXAMPLE	Art.	D1=16	L1=100
	E45.30.	016	100

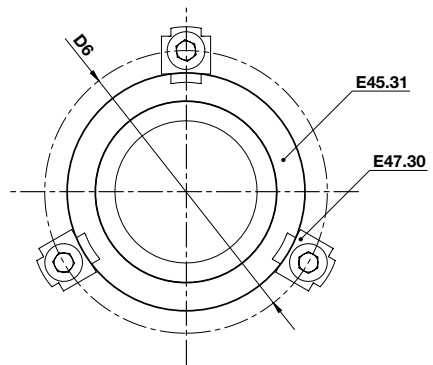
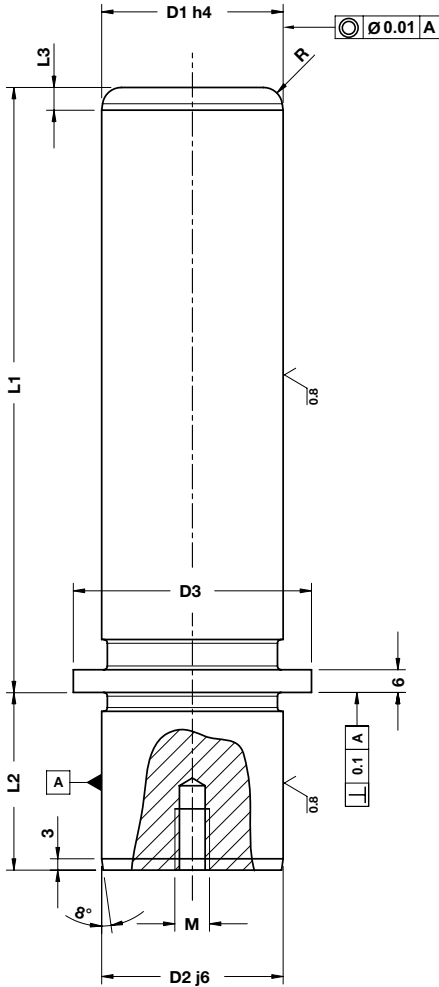
* Screws tightening torque
 Anziehdrehmoment
 Coppie di serraggio delle viti

D1	15	16	19	20	24	25	30	32	38	40	48	50	60	63	80
D3	9	9	11	11	14	14	18	18	18	18	14	14	18	18	18
D4	17	17	20	20	22	22	28	28	28	28	22	22	28	28	28
D6	-	-	-	-	-	-	-	-	-	-	28	28	34	34	54
L2	4	4	4	4	6	6	6	6	6	6	8	8	8	8	8
M	8	8	10	10	12	12	16	16	16	16	12	12	16	16	16
R	3	3	3	3	5	5	5	5	5	5	7	7	7	7	7
Screws DIN 912 - 8.8	M8x35		M10x40		M12x40		M16x40				3x M12x50		3x M16x60		4x M16x60
Nm*	21	21	37	37	85	85	150	150	150	150	85	85	200	200	200

L1															
90	•	•													
100	•	•	•	•	•	•									
112	•	•	•	•	•	•									
125	•	•	•	•	•	•	•	•							
140	•	•	•	•	•	•	•	•							
160	•	•	•	•	•	•	•	•	•	•					
180	•	•	•	•	•	•	•	•	•	•	•	•			
200	•	•	•	•	•	•	•	•	•	•	•	•	•		
224	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
280	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
315	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
355	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
400			•	•	•	•	•	•	•	•	•	•	•	•	•
450				•	•	•	•	•	•	•	•	•	•	•	•
500					•	•	•	•	•	•	•	•	•	•	•
550							•	•	•	•	•	•	•	•	•
600								•	•	•	•	•	•	•	•
700									•	•	•	•	•	•	•
800										•	•	•	•	•	•

Sliding Elements

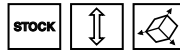
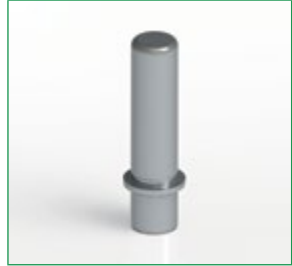
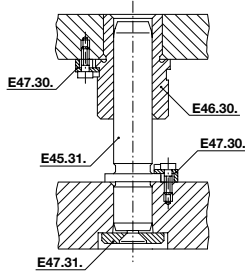
**GUIDE POST WITH COLLAR
FÜHRUNGSSÄULE MIT BUND
COLONNA CON COLLARE**



Notes

Material: 16MnCr5
HRC: 60÷62

Application example



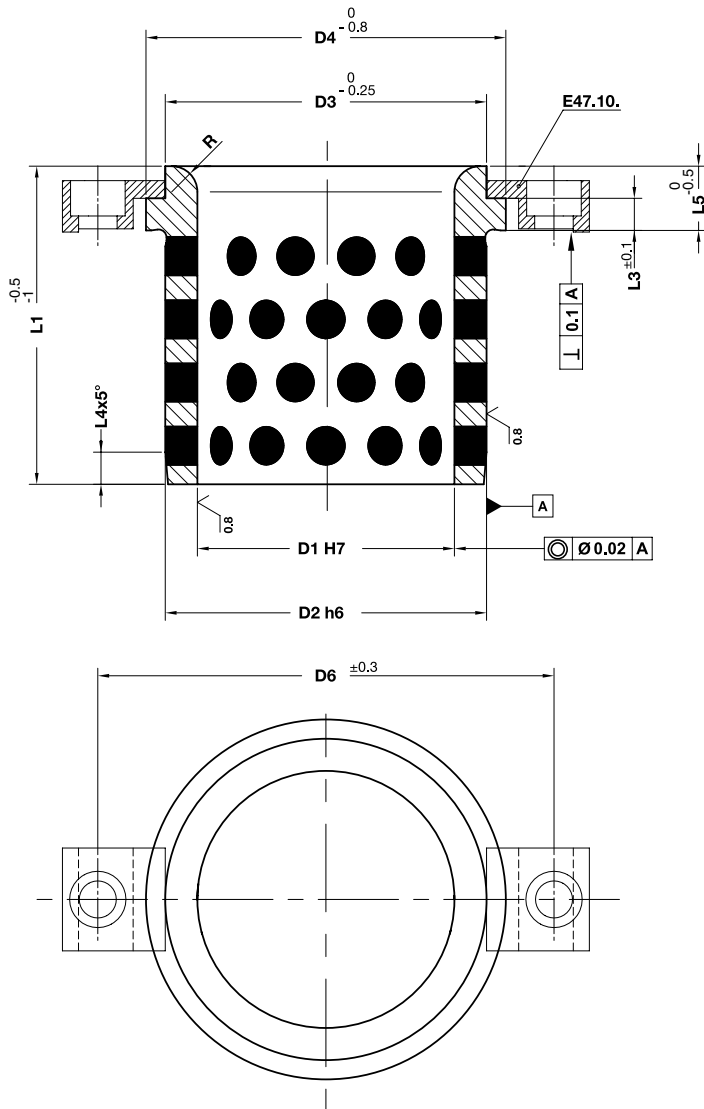
Art.	D1=16	L1=100
E45.31.	016	100

D1	15	16	19	20	24	25	30	32	38	40	48	50	60	63	80
D2	15	16	19	20	24	25	30	32	38	40	48	50	60	63	80
D3	22	22	25	25	32	32	40	40	50	50	63	63	80	80	95
D6	33	33	36	36	43	43	51	51	61	61	74	74	91	91	106
L2	20	20	23	23	30	30	37	37	37	37	47	47	47	47	60
L3	4	4	4	4	6	6	6	6	6	6	8	8	8	8	8
M	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8	M12
R	3	3	3	3	5	5	5	5	5	5	7	7	7	7	7
L1															
100	•	•	•	•	•	•									
112	•	•	•	•	•	•	•	•							
125	•	•	•	•	•	•	•	•	•	•					
140	•	•	•	•	•	•	•	•	•	•	•	•			
160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
224					•	•	•	•	•	•	•	•	•	•	•
250					•	•	•	•	•	•	•	•	•	•	•
280							•	•	•	•	•	•	•	•	•
315							•	•	•	•	•	•	•	•	•
355									•	•	•	•	•	•	•
400											•	•	•	•	•

Sliding Elements

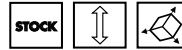


**BUSH SELF-LUBRICATING DIN 9834
 FÜHRUNGSBUCHSE DIN 9834
 BOCCOLA AUTOLUBRIFICANTE DIN 9834**



Notes

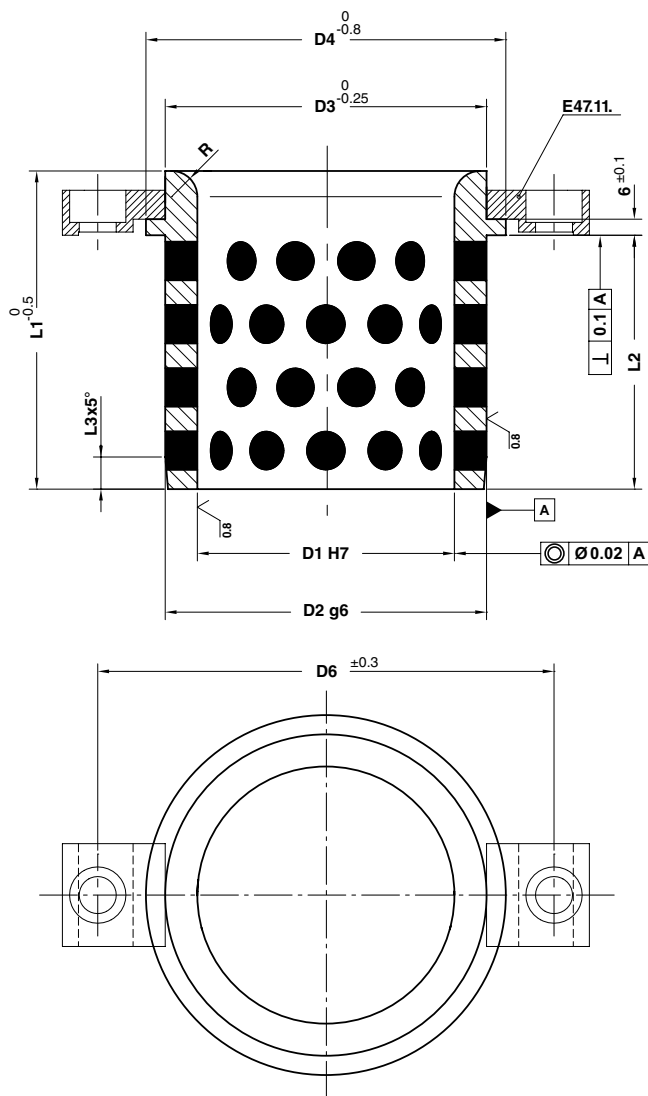
Material: Bronze + Graphite
HB > 190



	Art.	D1=50	L1=71
	E46.10.	050	071

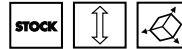
OMCR CODE	D1	D2	D3	D4	D6	L1	L3	L4	L5	R
E46.10.025040	25	32	32	40	58	40	6,3	3	10	3
E46.10.030050	30	40	40	50	66	50	6,3	4	12	3
E46.10.032050	32	40	40	50	66	50	6,3	4	12	3
E46.10.040063	40	50	50	63	79	63	6,3	5	15	3
E46.10.050071	50	63	63	71	89	71	6,3	6,3	17	5
E46.10.063080	63	80	80	90	123	80	10	8	19	6
E46.10.080100	80	100	100	112	143	100	10	10	22	8
E46.10.100125	100	125	125	140	168	125	10	12,5	21	10
E46.10.125160	125	160	160	180	203	160	10	16	30	12
E46.10.160200	160	200	200	220	243	200	10	16	32	18

BUSH SELF-LUBRICATING NAAMS
FÜHRUNGSBUCHSE NAAMS
BOCCOLA AUTOLUBRIFICANTE NAAMS



Notes

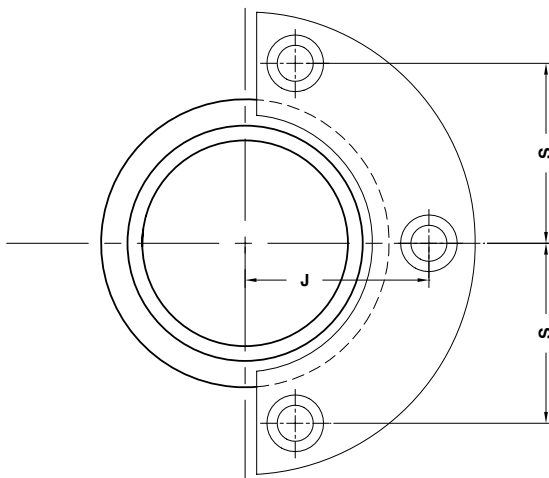
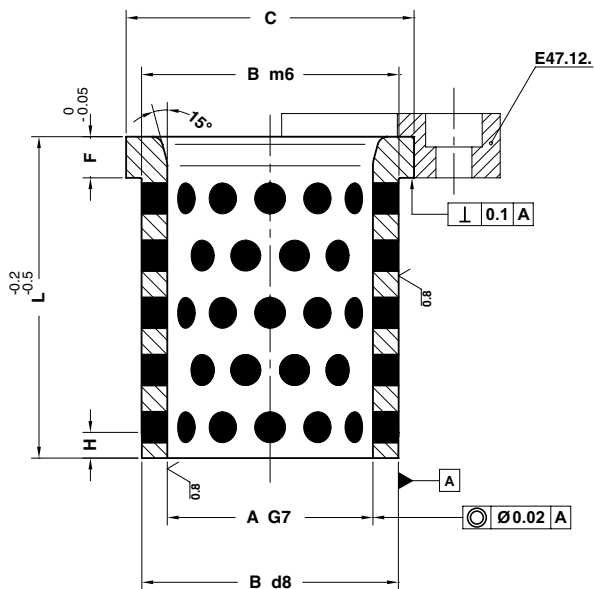
Material: Bronze + Graphite
HB > 190



	Art.	D1=50	L1=71
	E46.11.	050	071

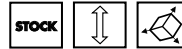
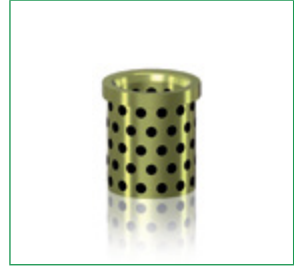
OMCR CODE	D1	D2	D3	D4	D6	L1	L2	L3	R
E46.11.025040	25	32	32	40	75	40	30	3	3
E46.11.032050	32	40	40	50	83	50	40	4	3
E46.11.040063	40	50	50	63	93	63	50	5	3
E46.11.050071	50	63	63	71	106	71	56	6,3	5
E46.11.063080	63	80	80	90	123	80	63	8	6
E46.11.080100	80	100	100	112	143	100	80	10	8
E46.11.100125	100	125	125	140	168	125	106	12,5	10
E46.11.125160	125	160	160	180	203	160	132	16	12

BUSH SELF-LUBRICATING AFNOR
FÜHRUNGSBUCHSE AFNOR
BOCCOLA AUTOLUBRIFICANTE AFNOR



Notes

Material: Bronze + Graphite
HB > 190

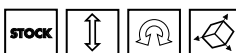
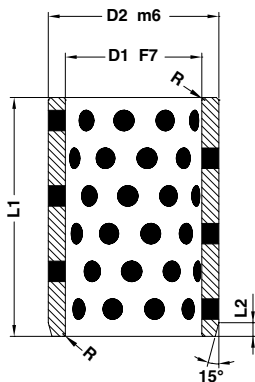


	Art.	A=50	L=80
	E46.12.	050	080

OMCR CODE	A	B	C	L	F	H	J	S
E46.12.025040	25	35	40	40	5	5	-	20
E46.12.032050	32	44	50	50	6	8	-	25
E46.12.040063	40	52	60	63	8	8	41	38,5
E46.12.050080	50	63	71	80	10	8	49	46
E46.12.063100	63	80	90	100	12	10	57,5	55
E46.12.080125	80	100	112	125	16	10	72	70
E46.12.100160	100	125	140	160	20	10	85	81

Sliding Elements

BUSH SELF-LUBRICATING
FÜHRUNGSBUCHSE
BOCCOLA AUTOLUBRIFICANTE



Warning: other dimensions on request.

Actung: Sonstige Abmessungen auf Anfrage.

Attenzione: altre dimensioni a richiesta

Notes

Material: Bronze + Graphite
HB > 190

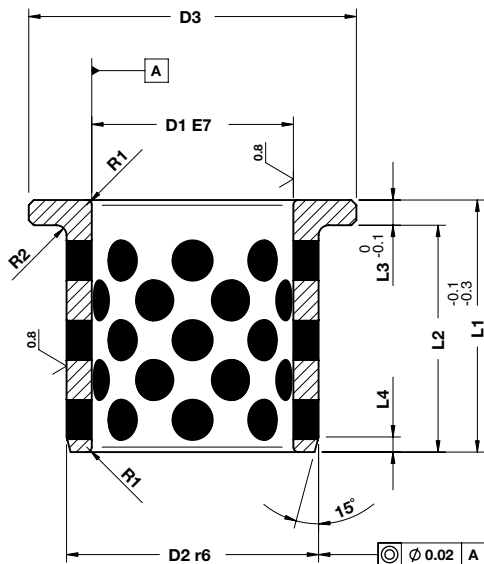
ORDER EXAMPLE	Art.	D1=18	D2=24	L1=35
	E46.20.	018	024	035

OMCR CODE	D1	D2	L1	L2	R
E46.20.010014010	10	14	10	2	0,5
E46.20.010014012	10	14	12	2	0,5
E46.20.010014015	10	14	15	2	0,5
E46.20.010014020	10	14	20	2	0,5
E46.20.012018012	12	18	12	2	0,5
E46.20.012018016	12	18	15	2	0,5
E46.20.012018020	12	18	20	2	0,5
E46.20.012018025	12	18	25	2	0,5
E46.20.012018030	12	18	30	2	0,5
E46.20.016022016	16	22	16	2	0,75
E46.20.016022020	16	22	20	2	0,75
E46.20.016022025	16	22	25	2	0,75
E46.20.016022030	16	22	30	2	0,75
E46.20.016022035	16	22	35	2	0,75
E46.20.016022040	16	22	40	2	0,75
E46.20.018024016	18	24	16	2	0,75
E46.20.018024020	18	24	20	2	0,75
E46.20.018024025	18	24	25	2	0,75
E46.20.018024030	18	24	30	2	0,75
E46.20.018024035	18	24	35	2	0,75
E46.20.018024040	18	24	40	2	0,75
E46.20.020028020	20	28	20	4	0,75

OMCR CODE	D1	D2	L1	L2	R
E46.20.020028025	20	28	25	4	0.75
E46.20.020028030	20	28	30	4	0.75
E46.20.020028035	20	28	35	4	0.75
E46.20.020028040	20	28	40	4	0.75
E46.20.020028050	20	28	50	4	0.75
E46.20.020030020	20	30	20	4	0.75
E46.20.020030025	20	30	25	4	0.75
E46.20.020030030	20	30	30	4	0.75
E46.20.020030035	20	30	35	4	0.75
E46.20.020030040	20	30	40	4	0.75
E46.20.025033025	25	33	25	4	0.75
E46.20.025033030	25	33	30	4	0.75
E46.20.025033035	25	33	35	4	0.75
E46.20.025033040	25	33	40	4	0.75
E46.20.025033050	25	33	50	4	0.75
E46.20.025033060	25	33	60	4	0.75
E46.20.025035025	25	35	25	4	0.75
E46.20.025035030	25	35	30	4	0.75
E46.20.025035035	25	35	35	4	0.75
E46.20.025035040	25	35	40	4	0.75
E46.20.025035050	25	35	50	4	0.75
E46.20.030038030	30	38	30	4	0.75
E46.20.030038035	30	38	35	4	0.75
E46.20.030038040	30	38	40	4	0.75
E46.20.030038050	30	38	50	4	0.75
E46.20.030038060	30	38	60	4	0.75
E46.20.030040030	30	40	30	4	0.75
E46.20.030040035	30	40	35	4	0.75
E46.20.030040040	30	40	40	4	0.75
E46.20.030040050	30	40	50	4	0.75
E46.20.030040060	30	40	60	4	0.75
E46.20.035045030	35	45	30	4	0.75
E46.20.035045035	35	45	35	4	0.75
E46.20.035045040	35	45	40	4	0.75
E46.20.035045050	35	45	50	4	0.75
E46.20.035045060	35	45	60	4	0.75
E46.20.040050035	40	50	35	4	0.75
E46.20.040050040	40	50	40	4	0.75
E46.20.040050050	40	50	50	4	0.75
E46.20.040050060	40	50	60	4	0.75
E46.20.040050070	40	50	70	4	0.75
E46.20.045055040	45	55	40	4	1.5
E46.20.045055050	45	55	50	4	1.5
E46.20.045055060	45	55	60	4	1.5
E46.20.050060040	50	60	40	4	1.5
E46.20.050060050	50	60	50	4	1.5
E46.20.050060060	50	60	60	4	1.5
E46.20.050060070	50	60	70	4	1.5
E46.20.050060080	50	60	80	4	1.5
E46.20.050065040	50	65	40	4	1.5
E46.20.050065050	50	65	50	4	1.5
E46.20.050065060	50	65	60	4	1.5
E46.20.050065070	50	65	70	4	1.5
E46.20.050065080	50	65	80	4	1.5
E46.20.060074060	60	74	60	4	1.5
E46.20.060074070	60	74	70	4	1.5
E46.20.060074080	60	74	80	4	1.5
E46.20.060075060	60	75	60	4	1.5
E46.20.060075070	60	75	70	4	1.5
E46.20.060075080	60	75	80	4	1.5

Sliding Elements

BUSH SELF-LUBRICATING FÜHRUNGSBUCHSE BOCCOLA AUTOLUBRIFICANTE



Notes

Material: Bronze + Graphite
HB > 190

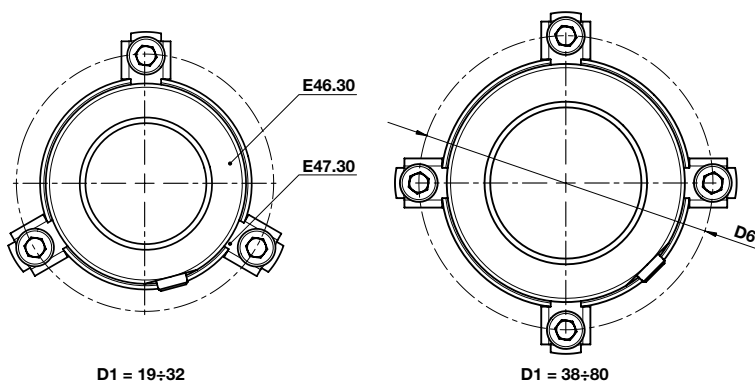
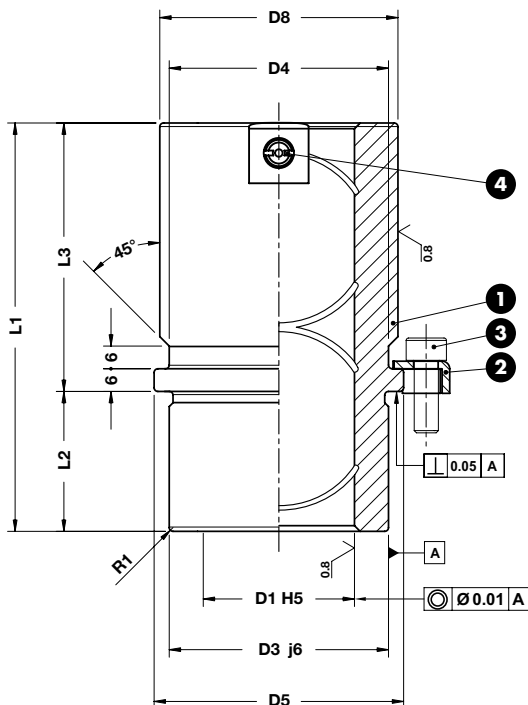
Art.	D1=10	L1=20
E46.22.	010	020

OMCR CODE	D1	D2	D3	L1	L2	L3	L4	R1	R2
E46.22.010015	10	14	22	15	13	2	2	1	0,4
E46.22.010020	10	14	22	20	18	2	2	1	0,4
E46.22.012015	12	18	25	15	12	3	2	1	0,4
E46.22.012020	12	18	25	20	17	3	2	1	0,4
E46.22.013015	13	19	26	15	12	3	2	1	0,4
E46.22.013020	13	19	26	20	17	3	2	1	0,4
E46.22.014015	14	20	27	15	12	3	2	1	0,4
E46.22.014020	14	20	27	20	17	3	2	1	0,4
E46.22.015015	15	21	28	15	12	3	2	1	0,5

OMCR CODE	D1	D2	D3	L1	L2	L3	L4	R1	R2
E46.22.015020	15	21	28	20	17	3	2	1	0,5
E46.22.015025	15	21	28	25	22	3	2	1	0,5
E46.22.015030	15	21	28	30	27	3	2	1	0,5
E46.22.016015	16	22	29	15	12	3	2	1	0,5
E46.22.016020	16	22	29	20	17	3	2	1	0,5
E46.22.016025	16	22	29	25	22	3	2	1	0,5
E46.22.016030	16	22	29	30	27	3	2	1	0,5
E46.22.020015	20	30	40	15	10	5	3	2	0,5
E46.22.020020	20	30	40	20	15	5	3	2	0,5
E46.22.020025	20	30	40	25	20	5	3	2	0,5
E46.22.020030	20	30	40	30	25	5	3	2	0,5
E46.22.020040	20	30	40	40	35	5	3	2	0,5
E46.22.025015	25	35	45	15	10	5	3	2	0,5
E46.22.025020	25	35	45	20	15	5	3	2	0,5
E46.22.025025	25	35	45	25	20	5	3	2	0,5
E46.22.025030	25	35	45	30	25	5	3	2	0,5
E46.22.025040	25	35	45	40	35	5	3	2	0,5
E46.22.030020	30	40	50	20	15	5	3	2	0,5
E46.22.030025	30	40	50	25	20	5	3	2	0,5
E46.22.030030	30	40	50	30	25	5	3	2	0,5
E46.22.030035	30	40	50	35	30	5	3	2	0,5
E46.22.030040	30	40	50	40	35	5	3	2	0,5
E46.22.030050	30	40	50	50	45	5	3	2	0,5
E46.22.031020	31,5	40	50	20	15	5	3	2	0,6
E46.22.031035	31,5	40	50	35	30	5	3	2	0,6
E46.22.035020	35	45	60	20	15	5	3	2	0,6
E46.22.035030	35	45	60	30	25	5	3	2	0,6
E46.22.035040	35	45	60	40	35	5	3	2	0,6
E46.22.035050	35	45	60	50	45	5	3	2	0,6
E46.22.040020	40	50	65	20	15	5	3	2	0,6
E46.22.040030	40	50	65	30	25	5	3	2	0,6
E46.22.040040	40	50	65	40	35	5	3	2	0,6
E46.22.040050	40	50	65	50	45	5	3	2	0,6
E46.22.045030	45	55	70	30	25	5	3	2	0,6
E46.22.045040	45	55	70	40	35	5	3	2	0,6
E46.22.045050	45	55	70	50	45	5	3	2	0,6
E46.22.045060	45	55	70	60	55	5	3	2	0,6
E46.22.050030	50	60	75	30	25	5	3	2	0,6
E46.22.050040	50	60	75	40	35	5	3	2	0,6
E46.22.050050	50	60	75	50	45	5	3	2	0,6
E46.22.050060	50	60	75	60	55	5	3	2	0,6
E46.22.055040	55	65	80	40	35	5	3	2	0,7
E46.22.055060	55	65	80	60	55	5	3	2	0,7
E46.22.060040	60	75	90	40	32,5	7,5	4	3	0,7
E46.22.060050	60	75	90	50	42,5	7,5	4	3	0,7
E46.22.060080	60	75	90	80	72,5	7,5	4	3	0,7
E46.22.063067	63	75	85	67,5	60	7,5	4	3	0,7
E46.22.070050	70	85	105	50	42,5	7,5	4	3	0,7
E46.22.070080	70	85	105	80	72,5	7,5	4	3	0,7
E46.22.075060	75	90	110	60	52,5	7,5	4	3	0,7
E46.22.080060	80	100	120	60	50	10	4	3	0,8
E46.22.080080	80	100	120	80	70	10	4	3	0,8
E46.22.080100	80	100	120	100	90	10	4	3	0,8
E46.22.090060	90	110	130	60	50	10	4	3	0,8
E46.22.090080	90	110	130	80	70	10	4	3	0,8
E46.22.100080	100	120	150	80	70	10	4	3	0,8
E46.22.100100	100	120	150	100	90	10	4	3	0,8
E46.22.120080	120	140	170	80	70	10	4	3	0,8
E46.22.120100	120	140	170	100	90	10	4	3	0,8

Sliding Elements

**BUSH BRONZEPLATED ISO 9448-6
 FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6
 BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6**



Notes

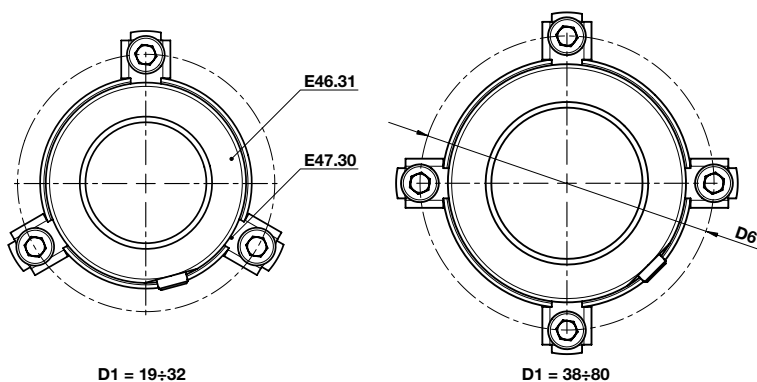
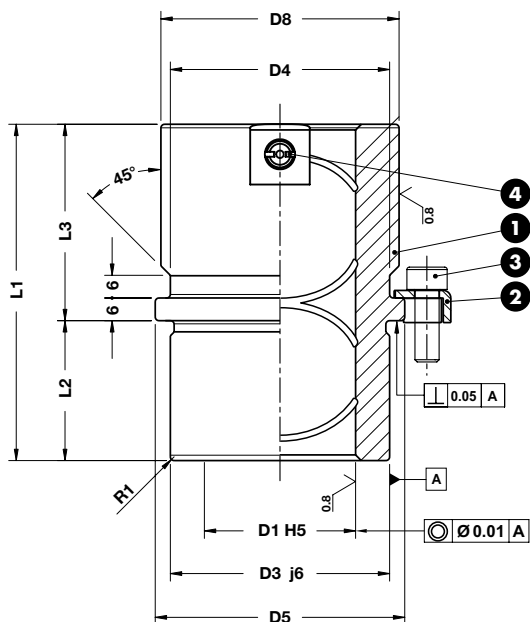
- 1** **Material:** Steel + Bronze - **HRC:** 58÷60 - **HB** > 190
- 2** E47.30.
- 3** M6x20 DIN 6912
- 4** Grease nipple DIN 3405 - A M8x1



	Art.	D1=20	L1=59
	E46.30.	020	059

OMCR CODE	D1	D3	D4	D5	D6	D8	L1	L2	L3
E46.30.019059	19	32	32	40	52	39	59	23	36
E46.30.020059	20	32	32	40	52	39	59	23	36
E46.30.024079	24	40	40	48	60	46	79	23	56
E46.30.025079	25	40	40	48	60	46	79	23	56
E46.30.030093	30	48	48	56	67	53	93	30	63
E46.30.032093	32	48	48	56	67	53	93	30	63
E46.30.038108	38	58	58	66	77	63	108	37	71
E46.30.040108	40	58	58	66	77	63	108	37	71
E46.30.048127	48	70	70	80	91	77	127	47	80
E46.30.050127	50	70	70	80	91	77	127	47	80
E46.30.060150	60	85	85	95	106	92	150	60	90
E46.30.063150	63	85	85	95	106	92	150	60	90
E46.30.080150	80	105	105	118	129	115	150	60	90

BUSH BRONZEPLATED ISO 9448-6
FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6
BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6



Notes

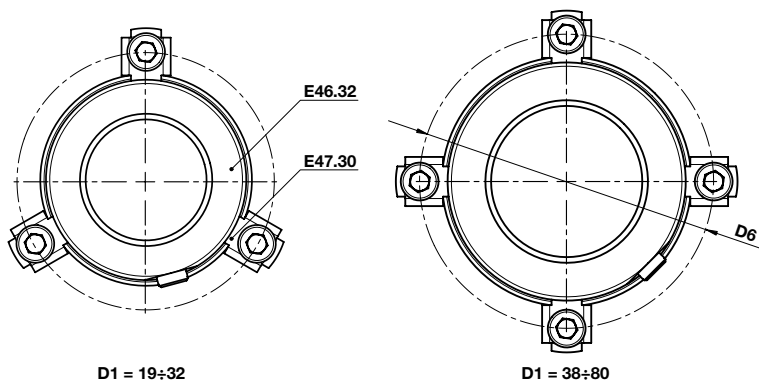
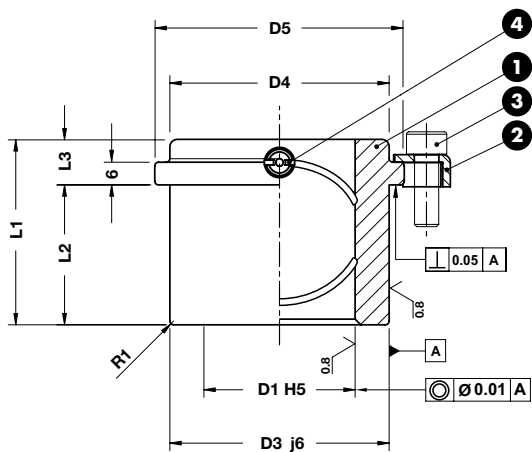
- 1 **Material:** Steel + Bronze - **HRC:** 58÷60 - **HB** > 190
- 2 E47.30.
- 3 M6x20 DIN 6912
- 4 Grease nipple DIN 3405 - A M8x1



	Art.	D1=20	L1=43
	E46.31.	020	043

OMCR CODE	D1	D3	D4	D5	D6	D8	L1	L2	L3
E46.31.019043	19	32	32	40	52	39	43	23	20
E46.31.020043	20	32	32	40	52	39	43	23	20
E46.31.024059	24	40	40	48	60	46	59	23	36
E46.31.025059	25	40	40	48	60	46	59	23	36
E46.31.030075	30	48	48	56	67	53	75	30	45
E46.31.032075	32	48	48	56	67	53	75	30	45
E46.31.038082	38	58	58	66	77	63	82	37	45
E46.31.040082	40	58	58	66	77	63	82	37	45
E46.31.048097	48	70	70	80	91	77	97	47	50
E46.31.050097	50	70	70	80	91	77	97	47	50
E46.31.060116	60	85	85	95	106	92	116	60	56
E46.31.063116	63	85	85	95	106	92	116	60	56
E46.31.080120	80	105	105	118	129	115	120	60	60

BUSH BRONZEPLATED ISO 9448-6
FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6
BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6



Notes

- 1 **Material:** Steel + Bronze - **HRC:** 58÷60 - **HB** > 190
- 2 E47.30.
- 3 M6x20 DIN 6912
- 4 Grease nipple DIN 3405 - A M8x1

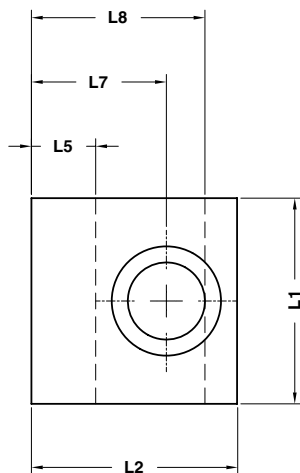
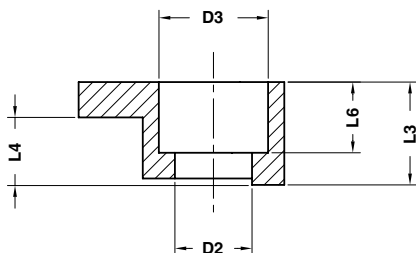


	Art.	D1=20	L1=35
	E46.32.	020	035

OMCR CODE	D1	D3	D4	D5	D6	L1	L2	L3
E46.32.019035	19	32	32	40	52	35	23	12
E46.32.020035	20	32	32	40	52	35	23	12
E46.32.024035	24	40	40	48	60	35	23	12
E46.32.025035	25	40	40	48	60	35	23	12
E46.32.030042	30	48	48	56	67	42	30	12
E46.32.032042	32	48	48	56	67	42	30	12
E46.32.038052	38	58	58	66	77	52	37	15
E46.32.040052	40	58	58	66	77	52	37	15
E46.32.048065	48	70	70	80	91	65	47	18
E46.32.050065	50	70	70	80	91	65	47	18
E46.32.060080	60	85	85	95	106	80	60	20
E46.32.063080	63	85	85	95	106	80	60	20
E46.32.080080	80	105	105	118	129	80	60	20

Sliding Elements

TOE CLAMP FOR BUSH SELF-LUBRICATING DIN 9834
HALTESTÜCK FÜR BUCHSE DIN 9834
RITEGNO PER BOCCOLA AUTOLUBRIFICANTE DIN 9834

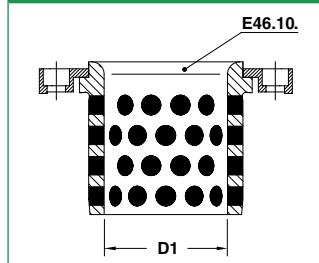


Notes

Material: CK45

Screw included and delivered in plastic bag of 4 pieces each.

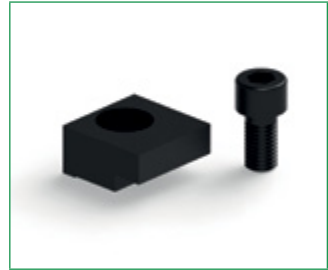
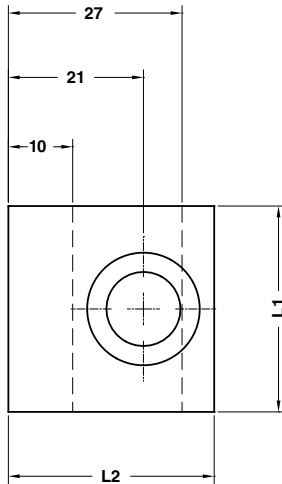
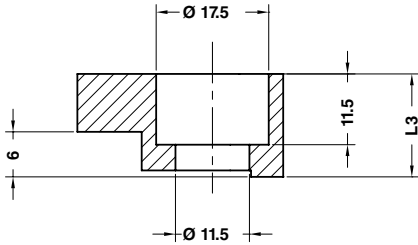
Application example



ORDER EXAMPLE	Art.	L1=20	L2=20	L3=10
	E47.10.	20	20	10

OMCR CODE	D1	L1	L2	L3	L4	L5	L6	L7	L8	D2	D3	Screw
E47.10.202010	25÷50	20	20	10	6,3	5	7	12,5	16	7	11	M6x16 DIN 912
E47.10.323216	63÷160	32	32	16	10	10	11,5	21	27	11,5	18	M10x20 DIN 912

TOE CLAMP FOR BUSH SELF-LUBRICATING NAAMS
HALTESTÜCK FÜR BUCHSE NAAMS
RITEGNO PER BOCCOLA AUTOLUBRIFICANTE NAAMS



STOCK

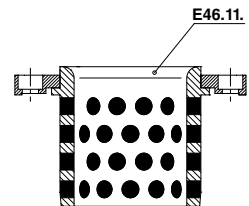


Notes

Material: CK45

Screw included and delivered in plastic bag of 4 pieces each.

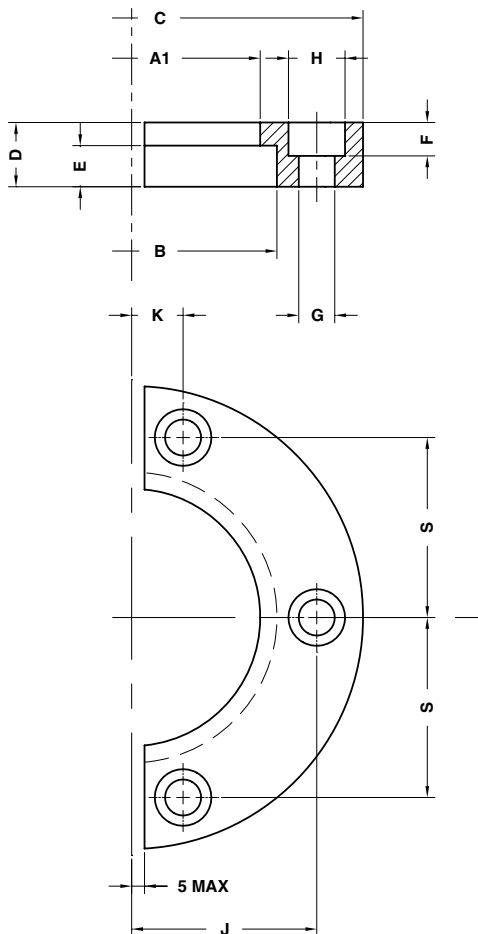
Application example



	Art.	L1=32	L2=32	L3=16
	E47.11.	32	32	16

OMCR CODE	L1	L2	L3	Screw
E47.11.323216	32	32	16	M10x20 DIN 912

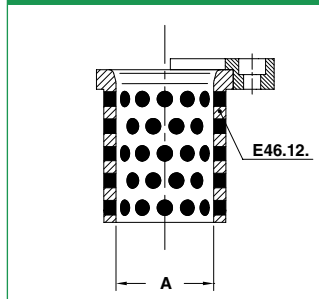
TOE CLAMTOE CLAMP FOR BUSH SELF-LUBRICATING AFNOR HALTESTÜCK FÜR BUCHSE AFNOR RITEGNO PER BOCCOLA AUTOLUBRIFICANTE AFNOR



Notes

Material: CK45

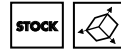
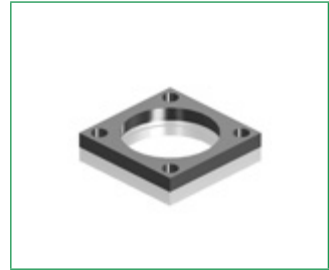
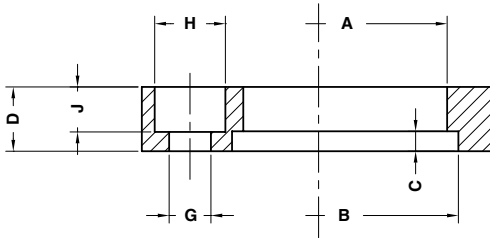
Application example



Art.	A=63
E47.12.	063

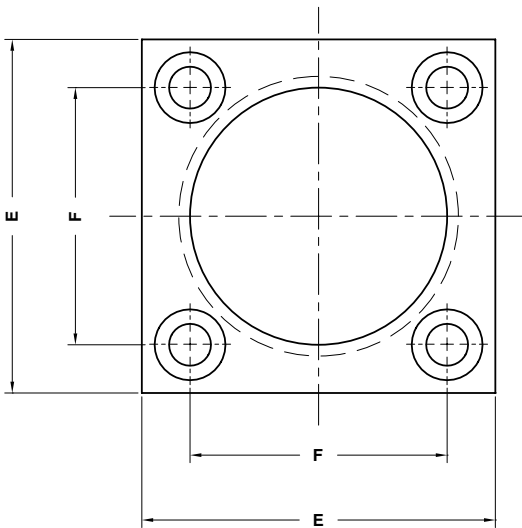
OMCR CODE	A	A1	B	C	D	E	F	G	H	K	J	S
E47.12.025	25	32	41	72	10	5	7	6,6	12	20	-	20
E47.12.032	32	40	51	80	12	6	7	6,6	12	21	-	25
E47.12.040	40	50	61	100	12	8	7	6,6	12	14	41	38,5
E47.12.050	50	63	72	125	16	10	9	9	16	17	49	46
E47.12.063	63	80	91	140	20	12	11	11	18	17	57,5	55
E47.12.080	80	100	113	180	25	16	13	14	22	20	72	70
E47.12.100	100	125	141	200	32	20	13	14	22	25	85	81

GUIDE POST RETAINER AFNOR HALTESTÜCK FÜR FÜHRUNGSSÄULE AFNOR RITEGNO PER COLONNA GUIDA AFNOR



Notes

Material: CK45



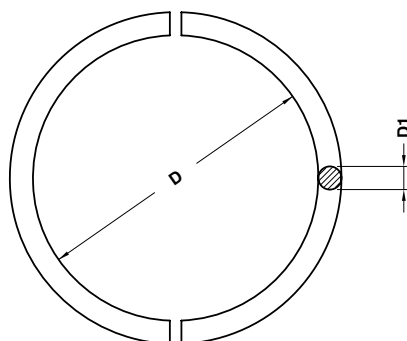
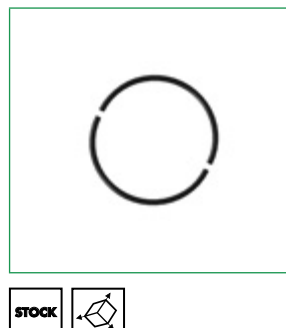
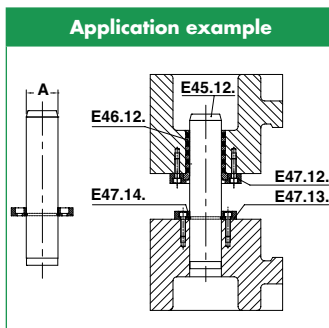
ORDER EXAMPLE	Art.	A=63
	E47.13.	063

OMCR CODE	A	B	G	H	J	D	C	E	F
E47.13.025	25	28	6,6	11	7	10	2,7	45	31
E47.13.032	32	37	6,6	11	7	10	4,2	56	36
E47.13.040	40	45	6,6	11	7	12	4,2	70	50
E47.13.050	50	55	9	16	9	14	4,2	80	55
E47.13.063	63	70	11	18	11	18	6,2	100	70
E47.13.080	80	87	13	22	14	20	6,2	110	80
E47.13.100	100	107	13	22	14	20	6,2	140	100

GUIDE POST RETAINER RING AFNOR HALTERING FÜR FÜHRUNGSSÄULE AFNOR ANELLO DI TENUTA PER COLONNA GUIDA AFNOR

Notes

Material: St37



	Art.	A=63
	E47.14.	063

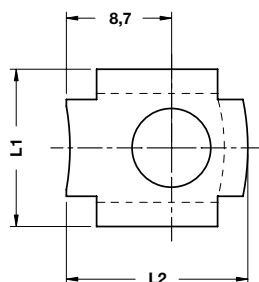
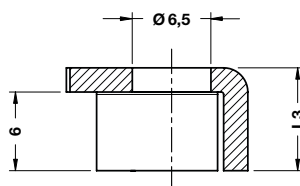
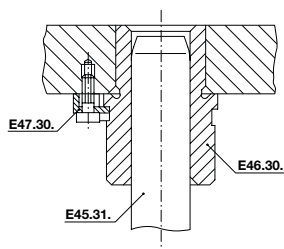
OMCR CODE	A	D	D1
E47.14.025	25	22,5	2,5
E47.14.032	32	28	4
E47.14.040	40	36	4
E47.14.050	50	46	4
E47.14.063	63	57	6
E47.14.080	80	74	6
E47.14.100	100	94	6

TOE CLAMP HALTESTÜCK RITEGNO

Notes

Material: Steel
Screw not included

Application example



ORDER EXAMPLE	Art.	L1=13	L2=15	L3=8,5
	E47.30.	13	15	85

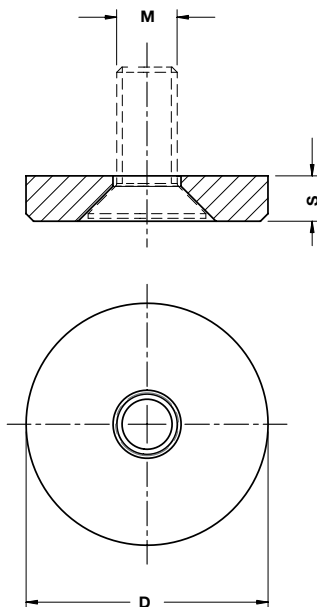
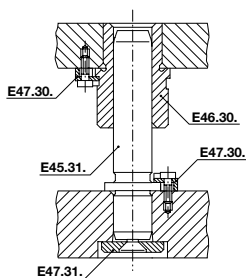
OMCR CODE	L1	L2	L3	Screw
E47.30.131585	13	15	8,5	M6x20 DIN 6912

RETAINING DISC HELTESCHEIBE DISCO DI FISSAGGIO

Notes

Material: CK45
Screw not included

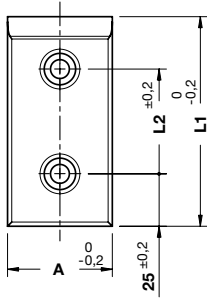
Application example



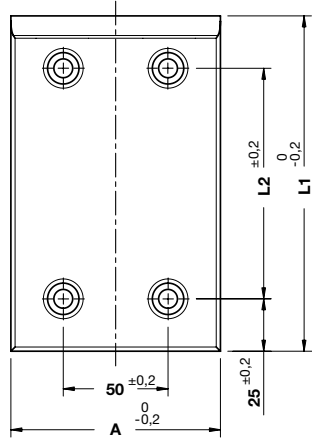
ORDER EXAMPLE	Art.	D= 25
	E47.31.	025

OMCR CODE	D	S	M
E47.31.022	22	6	8
E47.31.025	25	6	8
E47.31.032	32	6	8
E47.31.040	40	6	8
E47.31.050	50	6	8
E47.31.060	60	6	8
E47.31.070	70	6	8
E47.31.093	93	12	12

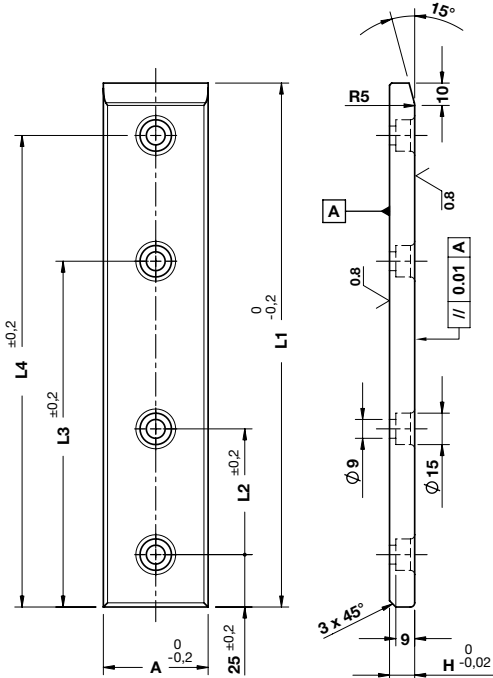
SINTERED STEEL WEAR PLATE TYPE VDI 3357
GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357



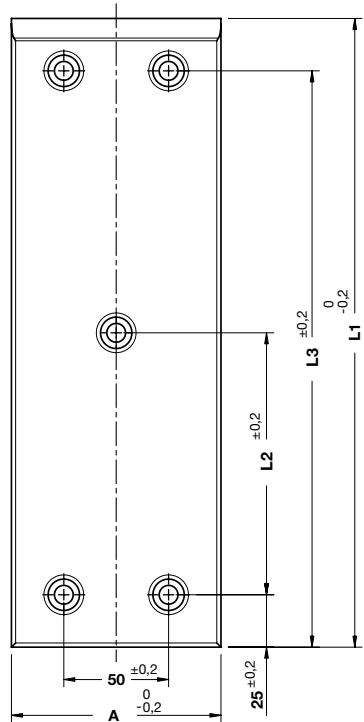
FORM A



FORM B



FORM C



FORM D

Notes

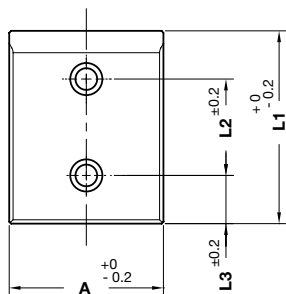
Material: St42 + sintered layer



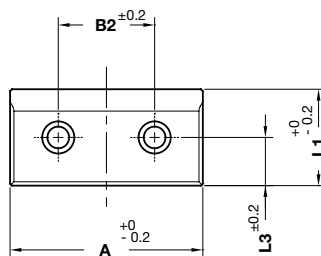
	Art.	A=50	H=12	L1=80
	E50.06.	050	12	080

OMCR CODE	A	H	L1	L2	L3	L4	FORM
E50.06.03012080	30	12	80	30	-	-	A
E50.06.03012100	30	12	100	50	-	-	A
E50.06.03012125	30	12	125	75	-	-	A
E50.06.03012160	30	12	160	110	-	-	A
E50.06.03012200	30	12	200	150	-	-	A
E50.06.04012080	40	12	80	30	-	-	A
E50.06.04012100	40	12	100	50	-	-	A
E50.06.04012125	40	12	125	75	-	-	A
E50.06.04012160	40	12	160	110	-	-	A
E50.06.04012200	40	12	200	150	-	-	A
E50.06.05012080	50	12	80	30	-	-	A
E50.06.05012100	50	12	100	50	-	-	A
E50.06.05012125	50	12	125	75	-	-	A
E50.06.05012160	50	12	160	110	-	-	A
E50.06.05012200	50	12	200	150	-	-	A
E50.06.05012250	50	12	250	60	165	225	C
E50.06.05012300	50	12	300	80	195	275	C
E50.06.05012350	50	12	350	100	225	325	C
E50.06.05012400	50	12	400	120	255	375	C
E50.06.06012080	60	12	80	30	-	-	A
E50.06.06012100	60	12	100	50	-	-	A
E50.06.06012125	60	12	125	75	-	-	A
E50.06.06012160	60	12	160	110	-	-	A
E50.06.06012200	60	12	200	150	-	-	A
E50.06.08012080	80	12	80	30	-	-	A
E50.06.08012100	80	12	100	50	-	-	A
E50.06.08012125	80	12	125	75	-	-	A
E50.06.08012160	80	12	160	110	-	-	A
E50.06.08012200	80	12	200	150	-	-	A
E50.06.10012125	100	12	125	75	-	-	B
E50.06.10012160	100	12	160	110	-	-	B
E50.06.10012200	100	12	200	150	-	-	B
E50.06.10012250	100	12	250	200	-	-	B
E50.06.10012300	100	12	300	125	275	-	D

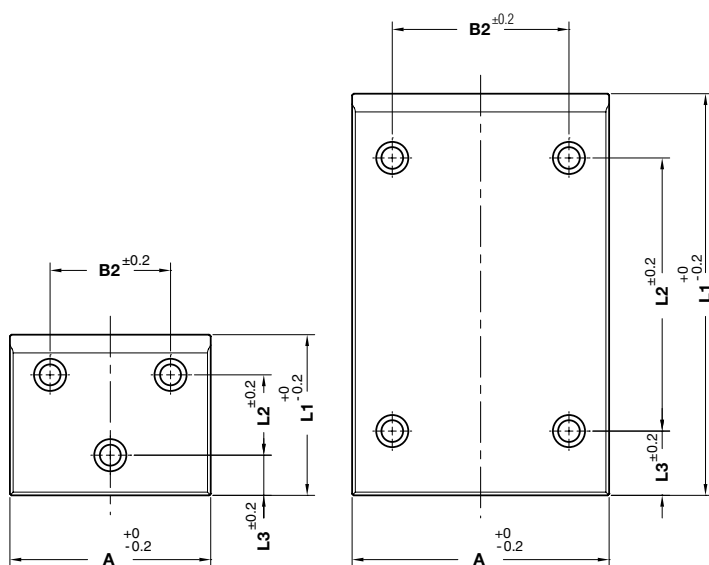
SINTERED STEEL WEAR PLATE TYPE VDI 3357
GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357



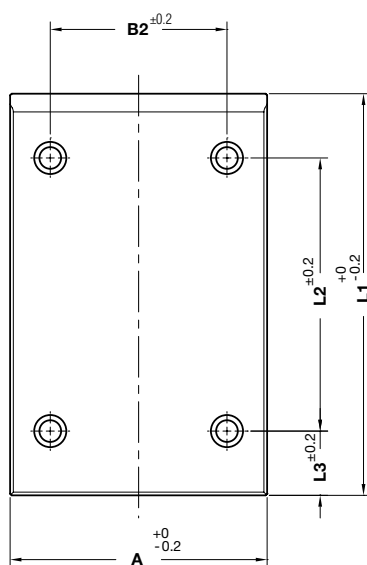
FORM A



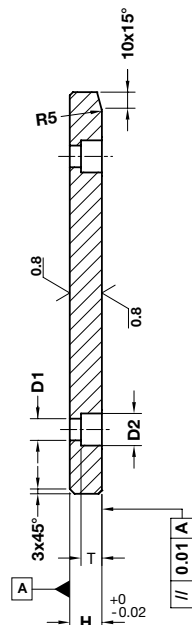
FORM B



FORM C



FORM D



Notes

Material: St42 + sintered layer



	Art.	A=125	H=20	L1=50
	E50.12.	125	20	050

OMCR CODE	A	H	L1	B2	L2	L3	D1	D2	T	Form
E50.12.05020080	50	20	80	-	30	25	9	15	9	A
E50.12.05020100	50	20	100	-	50	25	13,5	20	13	A
E50.12.05020125	50	20	125	-	75	25	13,5	20	13	A
E50.12.05020160	50	20	160	-	110	25	13,5	20	13	A
E50.12.05020200	50	20	200	-	150	25	13,5	20	13	A
E50.12.08020050	80	20	50	30	-	25	9	15	9	B
E50.12.08020080	80	20	80	-	30	25	13,5	20	13	A
E50.12.08020100	80	20	100	-	50	25	13,5	20	13	A
E50.12.08020125	80	20	125	-	75	25	13,5	20	13	A
E50.12.08020160	80	20	160	-	110	25	13,5	20	13	A
E50.12.08020200	80	20	200	-	150	25	13,5	20	13	A
E50.12.08020250	80	20	250	-	170	40	13,5	20	13	A
E50.12.10020050	100	20	50	50	-	25	13,5	20	13	B
E50.12.10020080	100	20	80	50	-	40	13,5	20	13	B
E50.12.10020100	100	20	100	-	50	25	13,5	20	13	A
E50.12.10020125	100	20	125	-	75	25	13,5	20	13	A
E50.12.10020160	100	20	160	-	110	25	13,5	20	13	A
E50.12.10020200	100	20	200	-	150	25	13,5	20	13	A
E50.12.10020250	100	20	250	-	170	40	13,5	20	13	A
E50.12.10020315	100	20	315	-	235	40	13,5	20	13	A
E50.12.12520050	125	20	50	75	-	25	13,5	20	13	B
E50.12.12520080	125	20	80	75	-	40	13,5	20	13	B
E50.12.12520100	125	20	100	75	50	25	13,5	20	13	C
E50.12.12520125	125	20	125	75	75	25	13,5	20	13	C
E50.12.12520160	125	20	160	75	110	25	13,5	20	13	C
E50.12.12520200	125	20	200	75	150	25	13,5	20	13	C
E50.12.12520250	125	20	250	75	170	40	13,5	20	13	C
E50.12.12520315	125	20	315	75	235	40	13,5	20	13	C
E50.12.16020050	160	20	50	110	-	25	13,5	20	13	B
E50.12.16020080	160	20	80	110	-	40	13,5	20	13	B
E50.12.16020100	160	20	100	110	50	25	13,5	20	13	C
E50.12.16020125	160	20	125	110	75	25	13,5	20	13	C
E50.12.16020160	160	20	160	110	110	25	13,5	20	13	C
E50.12.16020200	160	20	200	110	150	25	13,5	20	13	C
E50.12.16020250	160	20	250	110	170	40	13,5	20	13	D
E50.12.16020315	160	20	315	110	235	40	13,5	20	13	D

