



# TOOLING CATALOGUE

PROVIDING UNIQUE TOOLING  
SOLUTIONS SINCE 1974



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A range of German cutting tools for boring, grooving, threading, and groove milling.



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# CALIBER

## CALIBER INDUSTRIAL SUPPLY

is bringing you a range of  
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catalogue from around the world.  
Improve your productivity and the  
quality of your work.



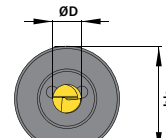
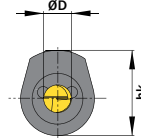
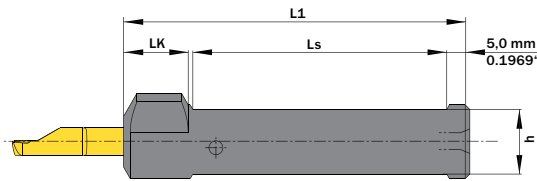
# SIMTEK®

## simturn® simmill®

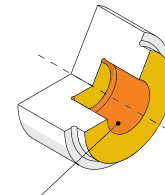
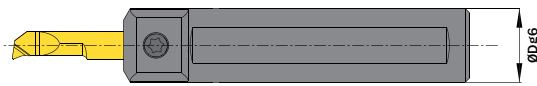


For a full product selection please  
request a full catalogue.

In-Stock  Left  Right  Both  Two Week Delivery



Wenn Dg6 = hk // If Dg6 = hk

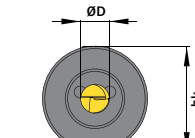
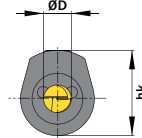
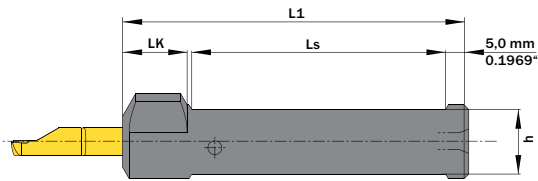


■ Hauptsächlich geeignet für diese Flächen  
 Mainly designed for these Surfaces  
■ Je nach Schneidplatte ebenfalls möglich  
 Also possible depending on insert type

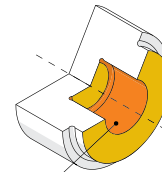
ØD	ØDg6	PART NUMBER	WEBCODE	h	hk	L1	LK	LS	# OF FLATS	SCREW	SCREW DRIVER	CONNECT-CODE	STOCK
mm	mm			mm	mm	mm	mm	mm					
<b>ØD = 4.0</b>													
4.0	10.0	A04.0010	AE46	8.0	14.5	65.0	14.0	45.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	12.0	A04.0012	AE0X	10.0	15.5	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	12.7*	<b>A04.0.500</b>	AB2J	10.7	15.85	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input checked="" type="checkbox"/>
4.0	15.875**	<b>A04.0.625</b>	ACVJ	13.88	17.44	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input checked="" type="checkbox"/>
4.0	16.0	A04.0016	AF2K	14.0	17.5	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	19.05***	<b>A04.0.750</b>	AJ4A	17.05	19.05	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input checked="" type="checkbox"/>
4.0	20.0	A04.0020	AC6Y	18.0	20.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	22.0	A04.0022	ADOV	20.0	22.0	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	23.0	A04.0023	ANU4	21.0	23.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	25.0	A04.0025	ACAS	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A04.L/A04.R	<input type="checkbox"/>
4.0	25.4****	<b>A04.1.000</b>	AJWG	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A04.L/A04.R	<input checked="" type="checkbox"/>
<b>ØD = 5.0</b>													
5.0	10.0	A05.0010	ABMY	8.0	15.0	65.0	14.0	45.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	12.0	A05.0012	AEA9	10.0	16.0	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	12.7	<b>A05.0.500</b>	AHQV	10.7	16.35	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input checked="" type="checkbox"/>
5.0	15.875**	<b>A05.0.625</b>	AGG2	13.88	17.94	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input checked="" type="checkbox"/>
5.0	16.0	A05.0016	AE6F	14.0	18.0	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	19.05***	<b>A05.0.750</b>	AAF8	17.05	19.05	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input checked="" type="checkbox"/>
5.0	20.0	A05.0020	ABDK	18.0	20.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	22.0	A05.0022	AG78	20.0	22.0	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	23.0	A05.0023	AGZX	21.0	23.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	25.0	A05.0025	AMVA	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A05.L/A05.R	<input type="checkbox"/>
5.0	25.4****	<b>A05.1.000</b>	AMM2	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A05.L/A05.R	<input checked="" type="checkbox"/>
<b>ØD = 6.0</b>													
6.0	12.0	A06.0012	AE6Z	10.0	16.5	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	12.7	<b>A06.0.500</b>	ADG8	10.7	16.85	70.0	14.0	50.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input checked="" type="checkbox"/>
6.0	15.875**	<b>A06.0.625</b>	AF4V	13.88	18.44	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input checked="" type="checkbox"/>
6.0	16.0	A06.0016	ANUJ	14.0	18.5	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	19.05***	<b>A06.0.750</b>	AE0N	17.05	21.0	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input checked="" type="checkbox"/>
6.0	20.0	A06.0020	AEV6	18.0	22.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	22.0	A06.0022	AAW6	20.0	22.0	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	23.0	A06.0023	AAMQ	21.0	23.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	25.0	A06.0025	AGFG	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A06.L/A06.R	<input type="checkbox"/>
6.0	25.4****	<b>A06.1.000</b>	AFYZ	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A06.L/A06.R	<input checked="" type="checkbox"/>

\* 1/2"    \*\* 5/8"    \*\*\* 3/4"    \*\*\*\* 1"

In-Stock  Left  Right  Both  Two Week Delivery



Wenn Dg6 = hk // If Dg6 = hk

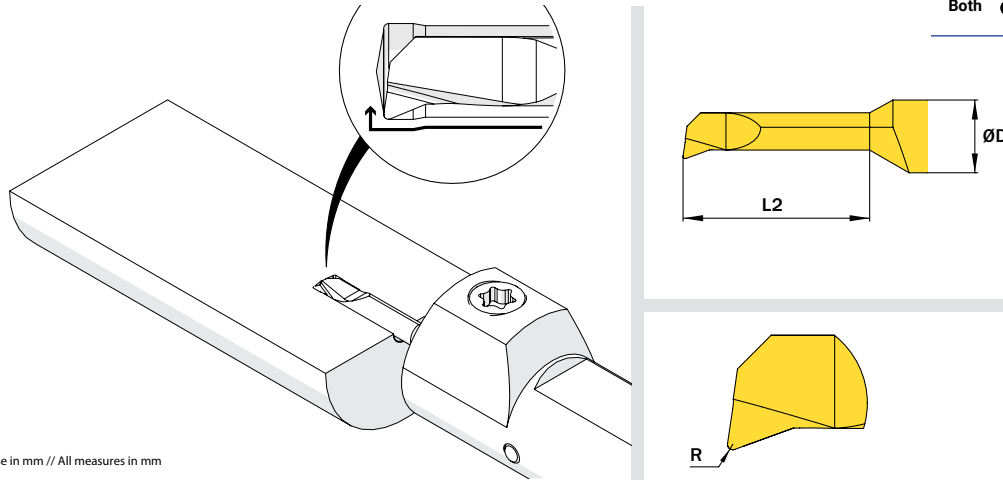


Hauptsächlich geeignet für diese Flächen  
 Mainly designed for these Surfaces  
 Je nach Schneidplatte ebenfalls möglich  
 Also possible depending on insert type

ØD	ØDg6	PART NUMBER	WEBCODE	h	hk	L1	LK	LS	# OF FLATS	SCREW	SCREW DRIVER	CONNECT-CODE	STOCK
mm	mm			mm	mm	mm	mm	mm					
<b>ØD = 7.0</b>													
7.0	15.875**	<b>A07.0.625</b>	AJD9	13.88	18.94	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	●
7.0	16.0	A07.0016	ANSH	14.0	19.0	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	○
7.0	19.05***	<b>A07.0.750</b>	AGC1	17.05	21.0	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	●
7.0	20.0	A07.0020	AJ4T	18.0	22.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	○
7.0	22.0	A07.0022	AE9S	20.0	22.0	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A07.L/A07.R	○
7.0	23.0	A07.0023	AA1N	21.0	23.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	○
7.0	25.0	A07.0025	AEK6	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A07.L/A07.R	○
7.0	25.4****	<b>A07.1.000</b>	AD79	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A07.L/A07.R	●
<b>ØD = 8.0</b>													
8.0	15.875**	<b>A08.0.625</b>	AHYF	13.88	19.44	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A08	○
8.0	16.0	A08.0016	AAAV	14.0	19.5	75.0	14.0	55.0	2	A M6x7.5 T15F	T15F	A08	○
8.0	19.05***	<b>A08.0.750</b>	AAKN	17.05	24.0	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A08	○
8.0	20.0	A08.0020	AD6N	18.0	25.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A08	○
8.0	25.0	A08.0025	AMAS	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A08	○
8.0	25.4****	<b>A08.1.000</b>	AAQJ	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A08	○
<b>ØD = 10.0</b>													
10.0	19.05***	<b>A10.0.750</b>	AEJ2	17.05	24.0	110.0	14.0	90.0	2	A M6x7.5 T15F	T15F	A10.L/A10.R	○
10.0	20.0	A10.0020	AGQZ	18.0	25.0	90.0	14.0	70.0	2	A M6x7.5 T15F	T15F	A10.L/A10.R	○
10.0	25.0	A10.0025	ABB8	23.0	25.0	110.0	-	90.0	2	A M6x7.5 T15F	T15F	A10.L/A10.R	○
10.0	25.4****	<b>A10.1.000</b>	AHAY	23.4	25.4	110.0	-	90.0	4	A M6x7.5 T15F	T15F	A10.L/A10.R	○

\* 1/2"    \*\* 5/8"    \*\*\* 3/4"    \*\*\*\* 1"

In-Stock  Left  Right  Both  Two Week Delivery



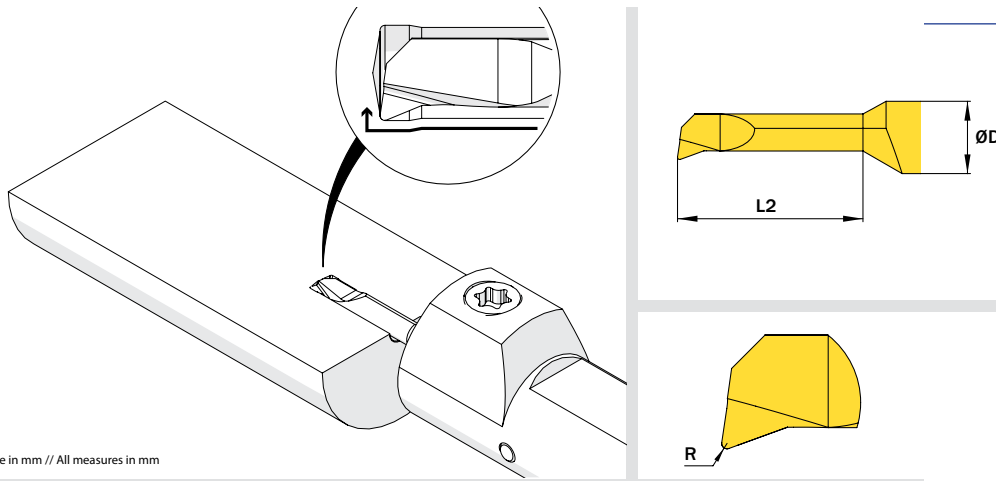
Alle Maße in mm // All measures in mm

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>ØDmin = 0.3 - 0.9mm</b>						
4.0	1.2	0.3	-	A04.5015.01.03.00 YR/L	R AMZP L ANTU	<input type="radio"/>
4.0	1.2	0.3	+	A04.5C15.01.03.00 YR/L	R AW9E L AW99	<input type="radio"/>
4.0	1.6	0.4	-	A04.5020.01.04.00 YR/L	R AHJV L AFUM	<input type="radio"/>
4.0	1.6	0.4	+	A04.5C20.01.04.00 YR/L	R AW9F L AXAA	<input type="radio"/>
4.0	2.0	0.5	-	A04.5025.02.05.00 YR/L	R AASX L AK4W	<input type="radio"/>
4.0	2.0	0.5	+	A04.5C25.02.05.00 YR/L	R ABJW L ABH9	<input type="radio"/>
4.0	2.5	0.6	-	A04.5030.02.06.00 YR/L	R APAZ L AH1C	<input type="radio"/>
4.0	2.5	0.6	+	A04.5C30.02.06.00 YR/L	R APVN L ANA8	<input type="radio"/>
4.0	3.6	0.7	-	A04.5035.03.07.00 YR/L	R AP2U L ADPH	<input type="radio"/>
4.0	3.6	0.7	+	A04.5C35.03.07.00 YR/L	R AB9W L AEYB	<input type="radio"/>
4.0	4.1	0.8	-	A04.5040.04.08.00 YR/L	R AJ56 L AHP9	<input type="radio"/>
4.0	4.0	0.8	+	A04.5C40.04.08.00 YR/L	R AJ4N L AEWY	<input type="radio"/>
4.0	5.1	0.9	-	A04.5045.05.09.00 YR/L	R ANOX L ACN2	<input type="radio"/>
4.0	5.0	0.9	+	A04.5C45.05.09.00 YR/L	R ADKP L AMWH	<input type="radio"/>
<b>ØDmin = 1.0 - 1.4mm</b>						
4.0	4.0	1.0	0.05	-	A04.1804.04.10.05 YR/L	R AMGN L AK3Z <input type="radio"/>
4.0	4.0	1.0	0.05	+	A04.1C04.04.10.05 YR/L	R AW9G L AXAB <input type="radio"/>
4.0	4.0	1.0	0.1	-	A04.1804.04.10.10 YR/L	R AH77 L ADKJ <input type="radio"/>
4.0	4.0	1.0	0.1	+	A04.1C04.04.10.10 YR/L	R AHJJ L AFJE <input type="radio"/>
4.0	6.0	1.0	0.05	-	A04.1804.06.10.05 YR/L	R AHGX L APQV <input type="radio"/>
4.0	6.0	1.0	0.05	+	A04.1C04.06.10.05 YR/L	R AW9H L AXAC <input type="radio"/>
4.0	6.0	1.0	0.1	-	A04.1804.06.10.10 YR/L	R ADN1 L AASJ <input type="radio"/>
4.0	6.0	1.0	0.1	+	A04.1C04.06.10.10 YR/L	R AJGF L AMNZ <input type="radio"/>
4.0	8.1	1.0	0.1	-	A04.1804.08.10.10 YR/L	R AJHB L AEXS <input type="radio"/>
4.0	8.1	1.0	0.1	+	A04.1C04.08.10.10 YR/L	R ANWW L AJEK <input type="radio"/>
4.0	5.1	1.2	0.1	+	A04.1C05.04.12.10 YR/L	R AW3A L AW29 <input type="radio"/>
4.0	7.1	1.2	0.1	+	A04.1C05.07.12.10 YR/L	R AW3C L AW3B <input type="radio"/>
4.0	9.1	1.2	0.1	+	A04.1C05.09.12.10 YR/L	R AW3E L AW3D <input type="radio"/>
4.0	6.0	1.4	0.1	+	A04.1C06.06.14.10 YR/L	R AW3G L AW3F <input type="radio"/>
4.0	10.2	1.4	0.1	+	A04.1C06.10.14.10 YR/L	R AW3J L AW3H <input type="radio"/>
<b>Dmin = 1.7 - 1.9mm</b>						
4.0	6.0	1.7	0.05	-	A04.1807.06.17.05 YR/L	R ABA5 L ADK9 <input type="radio"/>
4.0	6.0	1.7	0.05	+	A04.1C07.06.17.05 YR/L	R AW9J L AXAD <input type="radio"/>
4.0	6.0	1.7	0.1	-	A04.1807.06.17.10 YR/L	R AEAZ L APEV <input type="radio"/>
4.0	6.0	1.7	0.1	+	A04.1C07.06.17.10 YR/L	R AF0J L ANPT <input checked="" type="radio"/>
4.0	9.1	1.7	0.05	-	A04.1807.09.17.05 YR/L	R AEHH L AJZB <input type="radio"/>
4.0	9.1	1.7	0.05	+	A04.1C07.09.17.05 YR/L	R AW9K L AXAE <input type="radio"/>
4.0	9.1	1.7	0.1	-	A04.1807.09.17.10 YR/L	R AD7Q L AGHY <input type="radio"/>
4.0	9.1	1.7	0.1	+	A04.1C07.09.17.10 YR/L	R ANYC L AKAA <input type="radio"/>
4.0	9.1	1.9	0.1	-	A04.1C08.09.19.10 YR/L	R AW3M L AW3K <input type="radio"/>
4.0	12.2	1.9	0.1	+	A04.1C08.12.19.10 YR/L	R AW3P L AW3N <input type="radio"/>

⊕ = Optimized coolant delivery (new style)    - = Classic coolant delivery

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>ØDmin = 2.2mm</b>						
4.0	6.0	2.2	0.05	-	A04.1810.06.22.05 YR/L	R AEWA L AHNE <input type="radio"/>
4.0	6.0	2.2	0.05	+	A04.1C10.06.22.05 YR/L	R AW9M L AXAF <input type="radio"/>
4.0	6.0	2.2	0.1	-	A04.1810.06.22.10 YR/L	R AMKG L ABK2 <input type="radio"/>
4.0	6.0	2.2	0.1	+	A04.1C10.06.22.10 YR/L	R ABCM L AKQQ <input type="radio"/>
4.0	9.1	2.2	0.05	-	A04.1810.09.22.05 YR/L	R AFEA L AVEE <input type="radio"/>
4.0	9.1	2.2	0.05	+	A04.1C10.09.22.05 YR/L	R AW9N L AXAG <input type="radio"/>
4.0	9.1	2.2	0.1	-	A04.1810.09.22.10 YR/L	R AM4S L AA7F <input type="radio"/>
4.0	9.1	2.2	0.1	+	A04.1C10.09.22.10 YR/L	R ABD9 L AMX3 <input type="radio"/>
4.0	13.2	2.2	0.1	-	A04.1810.13.22.10 YR/L	R AKP9 L AJ36 <input type="radio"/>
4.0	13.2	2.2	0.1	+	A04.1C10.13.22.10 YR/L	R AGGH L AEBZ <input type="radio"/>
<b>ØDmin = 2.7 - 3.0mm</b>						
4.0	10.2	2.7	0.03	-	A04.1812.10.27.03 YR/L	R AKG6 L AHF1 <input type="radio"/>
4.0	10.2	2.7	0.03	+	A04.1C12.10.27.03 YR/L	R AW9P L AXAH <input type="radio"/>
4.0	10.2	2.7	0.05	-	A04.1812.10.27.05 YR/L	R AFXD L AFVH <input type="radio"/>
4.0	10.2	2.7	0.05	+	A04.1C12.10.27.05 YR/L	R AW9Q L AXAJ <input type="radio"/>
4.0	10.2	2.7	0.15	-	A04.1812.10.27.15 YR/L	R AH2M L ACX1 <input type="radio"/>
4.0	10.2	2.7	0.15	+	A04.1C12.10.27.15 YR/L	R AJ8J L AJ01 <input type="radio"/>
4.0	15.2	2.7	0.05	-	A04.1812.15.27.05 YR/L	R ANPQ L AEF2 <input type="radio"/>
4.0	15.2	2.7	0.05	+	A04.1C12.15.27.05 YR/L	R AW9S L AXAK <input type="radio"/>
4.0	15.2	2.7	0.15	-	A04.1812.15.27.15 YR/L	R AA9S L AJKP <input checked="" type="radio"/>
4.0	15.2	2.7	0.15	+	A04.1C12.15.27.15 YR/L	R AB8C L AAQ1 <input type="radio"/>
4.0	15.2	3.0	0.15	+	A04.1C14.15.30.15 YR/L	R AW3S L AW3Q <input type="radio"/>
4.0	20.3	3.0	0.15	-	A04.1814.20.30.15 YR/L	R APP5 L AMU6 <input type="radio"/>
4.0	20.3	3.0	0.15	+	A04.1C14.20.30.15 YR/L	R AHQ2 L AKT4 <input type="radio"/>
4.0	25.4	3.0	0.05	-	A04.1814.25.30.05 YR/L	R ATVX L AVEY <input type="radio"/>
4.0	25.4	3.0	0.05	+	A04.1C14.25.30.05 YR/L	R AW9T L AXAM <input type="radio"/>
<b>Dmin = 3.2mm</b>						
4.0	10.2	3.2	0.03	-	A04.1815.10.32.03 YR/L	R AM5F L AH7Q <input type="radio"/>
4.0	10.2	3.2	0.03	+	A04.1C15.10.32.03 YR/L	R AW9V L AXAP <input type="radio"/>
4.0	10.2	3.2	0.05	-	A04.1815.10.32.05 YR/L	R ACMP L AMPB <input type="radio"/>
4.0	10.2	3.2	0.05	+	A04.1C15.10.32.05 YR/L	R AW9W L AXAQ <input type="radio"/>
4.0	10.2	3.2	0.15	-	A04.1815.10.32.15 YR/L	R ANAV L AKDJ <input checked="" type="radio"/>
4.0	10.2	3.2	0.15	+	A04.1C15.10.32.15 YR/L	R AG17 L AC37 <input type="radio"/>
4.0	15.2	3.2	0.05	-	A04.1815.15.32.05 YR/L	R AHFZ L AAS8 <input type="radio"/>
4.0	15.2	3.2	0.05	+	A04.1C15.15.32.05 YR/L	R AW9X L AXAS <input type="radio"/>
4.0	15.2	3.2	0.15	-	A04.1815.15.32.15 YR/L	R APP9 L AFN6 <input checked="" type="radio"/>
4.0	15.2	3.2	0.15	+	A04.1C15.15.32.15 YR/L	R ABTG L AAW9 <input type="radio"/>
4.0	20.3	3.2	0.05	-	A04.1815.20.32.05 YR/L	R APGP L AFHA <input type="radio"/>
4.0	20.3	3.2	0.05	+	A04.1C15.20.32.05 YR/L	R AW9Y L AXAT <input type="radio"/>
4.0	20.3	3.2	0.15	-	A04.1815.20.32.15 YR/L	R AQCT L ABZB <input type="radio"/>
4.0	20.3	3.2	0.15	+	A04.1C15.20.32.15 YR/L	R AAVU L ADEU <input type="radio"/>

In-Stock  Left  Right  Both  Two Week Delivery



Alle Maße in mm // All measures in mm

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>ØDmin = 3.7mm</b>						
4.0	10.2	3.7	0.15	- A04.1817.10.37.15 YR/L R	AHD4 L AMYK	<input type="radio"/>
4.0	10.2	3.7	0.15	+ A04.1C17.10.37.15 YR/L R	ANJF L ANZP	<input type="radio"/>
4.0	15.2	3.7	0.15	- A04.1817.15.37.15 YR/L R	AMQN L ABA7	<input type="radio"/>
4.0	15.2	3.7	0.15	+ A04.1C17.15.37.15 YR/L R	AHBD L APYD	<input type="radio"/>
4.0	20.3	3.7	0.05	- A04.1817.20.37.05 YR/L R	AQ1U L AQ1V	<input type="radio"/>
4.0	20.3	3.7	0.05	+ A04.1C17.20.37.05 YR/L R	AW9U L AXAN	<input type="radio"/>
4.0	20.3	3.7	0.15	- A04.1817.20.37.15 YR/L R	AKNZ L AH9Y	<input type="radio"/>
4.0	20.3	3.7	0.15	+ A04.1C17.20.37.15 YR/L R	AB5S L AFAA	<input type="radio"/>
4.0	25.4	3.7	0.1	- A04.1817.25.37.10 YR/L R	AA9M L ADKH	<input type="radio"/>
4.0	25.4	3.7	0.1	+ A04.1C17.25.37.10 YR/L R	ANNS L AEFW	<input type="radio"/>
<b>ØDmin = 4.2mm</b>						
4.0	10.2	4.2	0.03	+ A04.1820.10.42.03 YR/L R	AGCF L ABGP	<input type="radio"/>
4.0	10.2	4.2	0.05	+ A04.1820.10.42.05 YR/L R	ADDK L AN4X	<input type="radio"/>
4.0	10.2	4.2	0.15	+ A04.1820.10.42.15 YR/L R	AEH9 L AAPJ	<input type="radio"/>
4.0	15.2	4.2	0.03	+ A04.1820.15.42.03 YR/L R	APUB L AKMA	<input type="radio"/>
4.0	15.2	4.2	0.05	+ A04.1820.15.42.05 YR/L R	ADN4 L AK2B	<input type="radio"/>
4.0	15.2	4.2	0.15	+ A04.1820.15.42.15 YR/L R	AHDX L AGEY	<input type="radio"/>
4.0	20.3	4.2	0.03	+ A04.1820.20.42.03 YR/L R	AJ0B L AEPY	<input type="radio"/>
4.0	20.3	4.2	0.05	+ A04.1820.20.42.05 YR/L R	AB3A L AHMG	<input type="radio"/>
4.0	20.3	4.2	0.15	+ A04.1820.20.42.15 YR/L R	AM3K L ANGF	<input type="radio"/>
4.0	25.4	4.2	0.05	+ A04.1820.25.42.05 YR/L R	AMV0 L AFE8	<input type="radio"/>
4.0	25.4	4.2	0.15	+ A04.1820.25.42.15 YR/L R	AJT1 L AJ4S	<input type="radio"/>
4.0	30.5	4.2	0.05	+ A04.1820.30.42.05 YR/L R	ASFY L ASF1	<input type="radio"/>

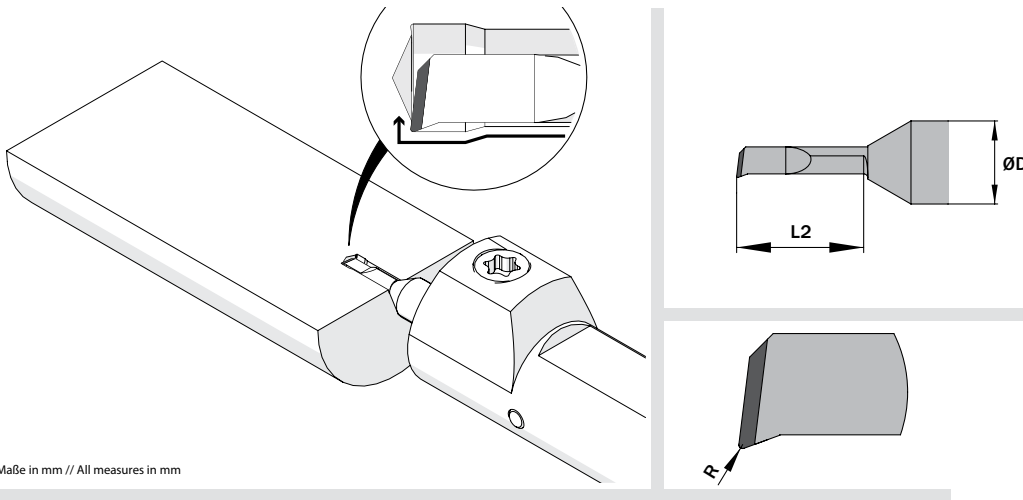
+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>ØDmin = 5.2mm</b>						
5.0	10.2	5.2	0.05	+ A05.1825.10.52.05 YR/L R	AS4G L ATVZ	<input type="radio"/>
5.0	10.2	5.2	0.2	+ A05.1825.10.52.20 YR/L R	AFCW L ADCU	<input type="radio"/>
5.0	15.2	5.2	0.03	+ A05.1825.15.52.03 YR/L R	ATV0 L AKBB	<input type="radio"/>
5.0	15.2	5.2	0.05	+ A05.1825.15.52.05 YR/L R	AM69 L AH0M	<input type="radio"/>
5.0	15.2	5.2	0.2	+ A05.1825.15.52.20 YR/L R	AF4Y L ANMN	<input type="radio"/>
5.0	20.3	5.2	0.05	+ A05.1825.20.52.05 YR/L R	AD00 L AKA1	<input type="radio"/>
5.0	20.3	5.2	0.2	+ A05.1825.25.52.20 YR/L R	AM8M L AM55	<input type="radio"/>
5.0	25.4	5.2	0.2	+ A05.1825.30.52.05 YR/L R	AFSB L AEHN	<input type="radio"/>
5.0	30.5	5.2	0.05	+ A05.1825.30.52.20 YR/L R	AD3G L AH4N	<input type="radio"/>
5.0	30.5	5.2	0.2	+ A05.1825.35.52.20 YR/L R	AFY1 L AK66	<input type="radio"/>
5.0	35.6	5.2	0.2	+ A05.1825.35.52.20 YR/L R	AND4 L AEC2	<input type="radio"/>
<b>ØDmin = 5.9mm</b>						
6.0	35.6	5.9	0.2	+ A06.1830.35.59.20 YR/L R	AXH6 L AXH5	<input type="radio"/>
6.0	40.6	5.9	0.2	+ A06.1830.40.59.20 YR/L R	AXH8 L AXH7	<input type="radio"/>
<b>ØDmin = 6.2mm</b>						
5.0	40.6	6.2	0.2	+ A05.1825.40.52.20 YR/L R	AMQK L AHH4	<input type="radio"/>
6.0	15.2	6.2	0.2	+ A06.1830.15.62.20 YR/L R	AG74 L AGKE	<input type="radio"/>
6.0	20.3	6.2	0.05	+ A06.1830.20.62.05 YR/L R	AEF5 L AQ95	<input type="radio"/>
6.0	20.3	6.2	0.2	+ A06.1830.20.62.20 YR/L R	AHDQ L AK50	<input type="radio"/>
6.0	25.4	6.2	0.2	+ A06.1830.25.62.20 YR/L R	AMJG L ADFD	<input type="radio"/>
6.0	30.5	6.2	0.05	+ A06.1830.30.62.05 YR/L R	AAMD L ATVY	<input type="radio"/>
6.0	30.5	6.2	0.2	+ A06.1830.30.62.20 YR/L R	AFDC L AKDU	<input type="radio"/>
6.0	35.6	6.2	0.2	+ A06.1830.35.62.20 YR/L R	ABT1 L AEG8	<input type="radio"/>
6.0	40.6	6.2	0.2	+ A06.1830.40.62.20 YR/L R	AC3S L AEQ0	<input type="radio"/>
<b>ØDmin = 7.2mm</b>						
7.0	25.4	7.2	0.2	+ A07.1835.25.72.20 YR/L R	APJJ L ADX9	<input type="radio"/>
7.0	30.5	7.2	0.2	+ A07.1835.30.72.20 YR/L R	AHXT L AJTS	<input type="radio"/>
7.0	35.6	7.2	0.2	+ A07.1835.35.72.20 YR/L R	AMGJ L AJZQ	<input type="radio"/>
7.0	40.6	7.2	0.2	+ A07.1835.40.72.20 YR/L R	ABCQ L AC04	<input type="radio"/>
7.0	45.7	7.2	0.2	+ A07.1835.45.72.20 YR/L R	AMXA L ACW5	<input type="radio"/>
7.0	50.8	7.2	0.2	+ A07.1835.50.72.20 YR/L R	AKWE L AMFB	<input type="radio"/>



In-Stock  Left  Right  Both   
 Two Week Delivery

SIMTEK



Alle Maße in mm // All measures in mm

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>Dmin = 1.0 - 1.9mm</b>						
4.0	4.0	1.0	0.1	+ A04.1C04.04.10.10 YUR/L R	ADBK L AJ4P	<input type="radio"/>
4.0	6.0	1.0	0.1	+ A04.1C04.06.10.10 YUR/L R	ADCN L APKW	<input type="radio"/>
4.0	8.1	1.0	0.1	+ A04.1C04.08.10.10 YUR/L R	AKCE L ACV1	<input type="radio"/>
4.0	5.1	1.2	0.1	+ A04.1C05.04.12.10 YUR/L R	AW3Y L AW3X	<input type="radio"/>
4.0	7.1	1.2	0.1	+ A04.1C05.07.12.10 YUR/L R	AW30 L AW3Z	<input type="radio"/>
4.0	9.1	1.2	0.1	+ A04.1C05.09.12.10 YUR/L R	AW32 L AW31	<input type="radio"/>
4.0	6.1	1.4	0.1	+ A04.1C06.06.14.10 YUR/L R	AW34 L AW33	<input type="radio"/>
4.0	10.2	1.4	0.1	+ A04.1C06.10.14.10 YUR/L R	AW36 L AW35	<input type="radio"/>
4.0	6.0	1.7	0.1	+ A04.1C07.06.17.10 YUR/L R	AG1U L AGGP	<input type="radio"/>
4.0	6.0	1.7	0.1	+ A04.1C07.06.17.10 YUR/L R	AJ7P L AN6Q	<input type="radio"/>
4.0	9.1	1.7	0.1	+ A04.1C07.09.17.10 YUR/L R	AN0V L ABAU	<input type="radio"/>
4.0	9.1	1.9	0.1	+ A04.1C08.09.19.10 YUR/L R	AW38 L AW37	<input type="radio"/>
4.0	12.2	1.9	0.1	+ A04.1C08.12.19.10 YUR/L R	AW4A L AW39	<input type="radio"/>
<b>Dmin = 2.2 - 3.0mm</b>						
4.0	6.0	2.2	0.1	+ A04.1C10.06.22.10 YUR/L R	AAPX L AJMG	<input type="radio"/>
4.0	9.1	2.2	0.1	- A04.1810.09.22.10 YUR/L R	AHS2 L AJFD	<input type="radio"/>
4.0	9.1	2.2	0.1	+ A04.1C10.09.22.10 YUR/L R	ANZ8 L AAVC	<input type="radio"/>
4.0	13.2	2.2	0.1	+ A04.1C10.13.22.10 YUR/L R	ABTM L AFZ1	<input type="radio"/>
4.0	10.2	2.7	0.15	- A04.1812.10.27.15 YUR/L R	AKDS L ADHA	<input type="radio"/>
4.0	10.2	2.7	0.15	+ A04.1C12.10.27.15 YUR/L R	APSV L ACU3	<input type="radio"/>
4.0	15.2	2.7	0.15	- A04.1812.15.27.15 YUR/L R	AWK9 L AW4X	<input type="radio"/>
4.0	15.2	2.7	0.15	+ A04.1C12.15.27.15 YUR/L R	AAQ6 L AG95	<input type="radio"/>
4.0	15.2	3.0	0.15	+ A04.1C14.15.30.15 YUR/L R	AW4C L AW4B	<input type="radio"/>
4.0	20.3	3.0	0.15	+ A04.1C14.20.30.15 YUR/L R	AGYZ L ANDP	<input type="radio"/>
<b>Dmin = 3.2 - 3.7mm</b>						
4.0	10.2	3.2	0.15	- A04.1815.10.32.15 YUR/L R	ADD4 L AB88	<input type="radio"/>
4.0	10.2	3.2	0.15	+ A04.1C15.10.32.15 YUR/L R	APBY L ABA4	<input type="radio"/>
4.0	15.2	3.2	0.15	- A04.1815.15.32.15 YUR/L R	AGGV L AJV6	<input type="radio"/>
4.0	15.2	3.2	0.15	+ A04.1C15.15.32.15 YUR/L R	APHK L AFG3	<input type="radio"/>
4.0	20.3	3.2	0.15	- A04.1815.20.32.15 YUR/L R	AQ5Q L ATT2	<input type="radio"/>
4.0	20.3	3.2	0.15	+ A04.1C15.20.32.15 YUR/L R	AHC2 L AD09	<input type="radio"/>
4.0	10.2	3.7	0.15	+ A04.1C17.10.37.15 YUR/L R	AF4J L AHZV	<input type="radio"/>
4.0	15.2	3.7	0.15	- A04.1817.15.37.15 YUR/L R	ABVV L AFNM	<input type="radio"/>
4.0	15.2	3.7	0.15	+ A04.1C17.15.37.15 YUR/L R	AJ9Y L ABDU	<input type="radio"/>
4.0	20.3	3.7	0.15	+ A04.1C17.20.37.15 YUR/L R	AHN6 L ABFZ	<input type="radio"/>
4.0	25.4	3.7	0.1	+ A04.1C17.25.37.10 YUR/L R	AK2Z L AGKZ	<input type="radio"/>
4.0	25.4	3.7	0.15	+ A04.1C17.25.37.15 YUR/L R	AM56 L ATWA	<input type="radio"/>

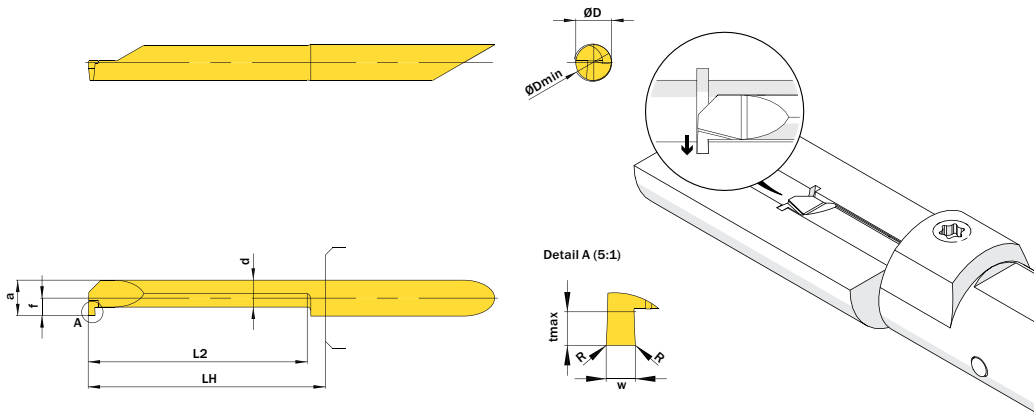
+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

ØD	L2	MIN BORE	R	PART NUMBER	WEBCODE	STOCK
mm	mm	mm	mm			
<b>Dmin = 4.2mm</b>						
4.0	10.2	4.2	0.15	+ A04.1820.10.42.15 YUR/L R	AH9U L AH6F	<input type="radio"/>
4.0	15.2	4.2	0.15	+ A04.1820.15.42.15 YUR/L R	AJ94 L AMC8	<input type="radio"/>
4.0	20.3	4.2	0.15	+ A04.1820.20.42.15 YUR/L R	AHVV L ABZS	<input type="radio"/>
4.0	25.4	4.2	0.15	+ A04.1820.25.42.15 YUR/L R	AKJE L ACN3	<input type="radio"/>
4.0	10.2	4.2	0.15	+ A04.2020.10.42.15 YUR/L R	AQQC L AW4Y	<input type="radio"/>
<b>Dmin = 5.2mm</b>						
5.0	10.2	5.2	0.2	+ A05.1825.10.52.20 YUR/L R	AHH5 L AHHM	<input type="radio"/>
5.0	15.2	5.2	0.2	+ A05.1825.15.52.20 YUR/L R	AD1K L AE8S	<input checked="" type="radio"/>
5.0	20.3	5.2	0.2	+ A05.1825.20.52.20 YUR/L R	AHAX L AM28	<input type="radio"/>
5.0	25.4	5.2	0.2	+ A05.1825.25.52.20 YUR/L R	AA87 L ADPG	<input type="radio"/>
5.0	30.5	5.2	0.2	+ A05.1825.30.52.20 YUR/L R	ADNS L ABNV	<input type="radio"/>
5.0	35.6	5.2	0.2	+ A05.1825.35.52.20 YUR/L R	AHBH L AGFX	<input type="radio"/>
5.0	40.6	5.2	0.2	+ A05.1825.40.52.20 YUR/L R	AJBN L AF1T	<input type="radio"/>
<b>Dmin = 6.2mm</b>						
6.0	15.2	6.2	0.2	+ A06.1830.15.62.20 YUR/L R	ADEW L APKD	<input type="radio"/>
6.0	20.3	6.2	0.2	+ A06.1830.20.62.20 YUR/L R	AEWG L AD88	<input checked="" type="radio"/>
6.0	25.4	6.2	0.2	+ A06.1830.25.62.20 YUR/L R	ACXE L AH4U	<input type="radio"/>
6.0	30.5	6.2	0.2	+ A06.1830.30.62.20 YUR/L R	AEJ9 L AGT4	<input type="radio"/>
6.0	35.6	6.2	0.2	+ A06.1830.35.62.20 YUR/L R	ANYT L ANN5	<input type="radio"/>
6.0	40.6	6.2	0.2	+ A06.1830.40.62.20 YUR/L R	AJ22 L AP2G	<input type="radio"/>
<b>Dmin = 7.2mm</b>						
7.0	25.4	7.2	0.2	+ A07.1835.25.72.20 YUR/L R	ABD2 L AKEW	<input checked="" type="radio"/>
7.0	30.5	7.2	0.2	+ A07.1835.30.72.20 YUR/L R	ACBJ L AJG9	<input type="radio"/>
7.0	35.6	7.2	0.2	+ A07.1835.35.72.20 YUR/L R	ADK7 L AK9F	<input type="radio"/>
7.0	40.6	7.2	0.2	+ A07.1835.40.72.20 YUR/L R	AK5S L AF7V	<input type="radio"/>
7.0	50.8	7.2	0.2	+ A07.1835.50.72.20 YUR/L R	ADDS L AD9D	<input type="radio"/>

# GROOVING - AX



In-Stock  Left  Right  Both  Two Week Delivery

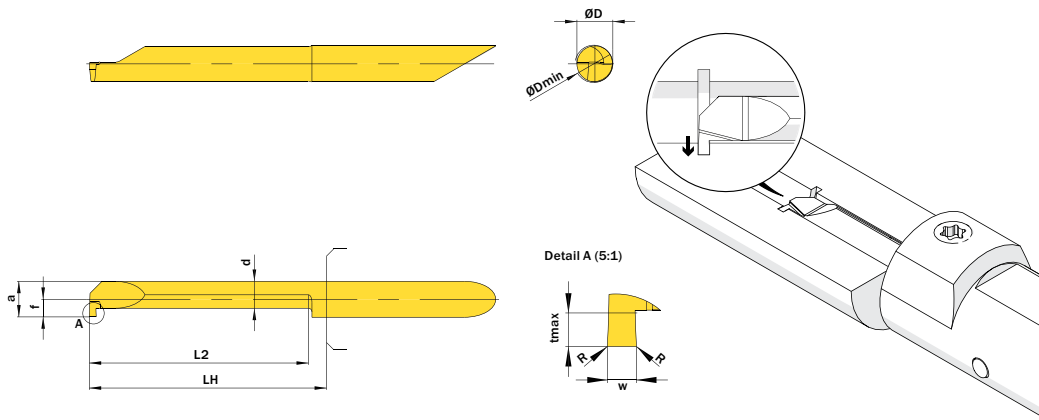


ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>ØDmin = 2.0mm</b>														
4.0	0.5	6.0	2.0	-	A04.0050.06.20 GR/L	R AFUW L AM47	G	1.75	1.15	0.85	13.0	-	0.4	R A04.R L A04.L <input type="radio"/>
4.0	0.5	6.1	2.0	+	A04.C050.06.20 GR/L	R ABQ4 L AN4H	G	1.75	1.15	1.95	13.0	-	0.4	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.5	9.1	2.0	-	A04.0050.09.20 GR/L	R ACJY L AMSE	G	1.75	1.15	0.85	13.0	-	0.4	R A04.R L A04.L <input type="radio"/>
4.0	0.5	9.1	2.0	+	A04.C050.09.20 GR/L	R AG6V L AGUA	G	1.75	1.15	1.95	13.0	-	0.4	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.5	12.2	2.0	-	A04.0050.12.20 GR/L	R AKDC L AF5Z	G	1.75	1.15	0.85	18.0	-	0.4	R A04.R L A04.L <input type="radio"/>
4.0	0.5	12.2	2.0	+	A04.C050.12.20 GR/L	R AJZ3 L ACVU	G	1.75	1.15	1.95	18.0	-	0.4	R A04.C.R L A04.C.L <input type="radio"/>
<b>ØDmin = 3.0mm</b>														
4.0	0.7	8.1	3.0	-	A04.0070.08.30 GR/L	R APXM L AD4E	G	2.75	1.95	1.35	13.0	-	0.6	R A04.R L A04.L <input type="radio"/>
4.0	0.7	8.1	3.0	+	A04.C070.08.30 GR/L	R AM07 L AMXM	G	2.75	1.95	1.95	13.0	-	0.6	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.7	12.2	3.0	-	A04.0070.12.30 GR/L	R ACVH L ANXB	G	2.75	1.95	1.35	18.0	-	0.6	R A04.R L A04.L <input type="radio"/>
4.0	0.7	12.2	3.0	+	A04.C070.12.30 GR/L	R ACKP L ANQE	G	2.75	1.95	1.95	18.0	-	0.6	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.7	16.3	3.0	-	A04.0070.16.30 GR/L	R ADVD L AEHC	G	2.75	1.95	1.35	23.0	-	0.6	R A04.R L A04.L <input type="radio"/>
4.0	0.7	16.3	3.0	+	A04.C070.16.30 GR/L	R AB70 L ANVK	G	2.75	1.95	1.95	23.0	-	0.6	R A04.C.R L A04.C.L <input type="radio"/>
<b>ØDmin = 4.2mm</b>														
4.0	0.79	10.2	4.2	+	A04.0078.10.42 GR/L	R AFQB L AHW7	G	3.95	2.95	1.95	13.0	-	0.8	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.79	15.2	4.2	+	A04.0078.15.42 GR/L	R AJGY L AFP6	G	3.95	2.95	1.95	18.0	-	0.8	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.79	20.3	4.2	+	A04.0078.20.42 GR/L	R AKJA L ADSD	G	3.95	2.95	1.95	23.0	-	0.8	R A04.C.R L A04.C.L <input type="radio"/>
4.0	0.79	25.4	4.2	+	A04.0078.25.42 GR/L	R APCB L AMMY	G	3.95	2.95	1.95	28.0	-	0.8	R A04.C.R L A04.C.L <input checked="" type="radio"/>
4.0	1.0	10.2	4.2	+	A04.0100.10.42 GR/L	R ANMY L AACT	G	3.95	2.95	1.95	13.0	-	0.8	R A04.C.R L A04.C.L <input checked="" type="radio"/>
4.0	1.0	15.2	4.2	+	A04.0100.15.42 GR/L	R AAQT L AGWU	G	3.95	2.95	1.95	18.0	-	0.8	R A04.C.R L A04.C.L <input type="radio"/>
4.0	1.0	20.3	4.2	+	A04.0100.20.42 GR/L	R ABMQ L AF0K	G	3.95	2.95	1.95	23.0	-	0.8	R A04.C.R L A04.C.L <input type="radio"/>

⊕ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

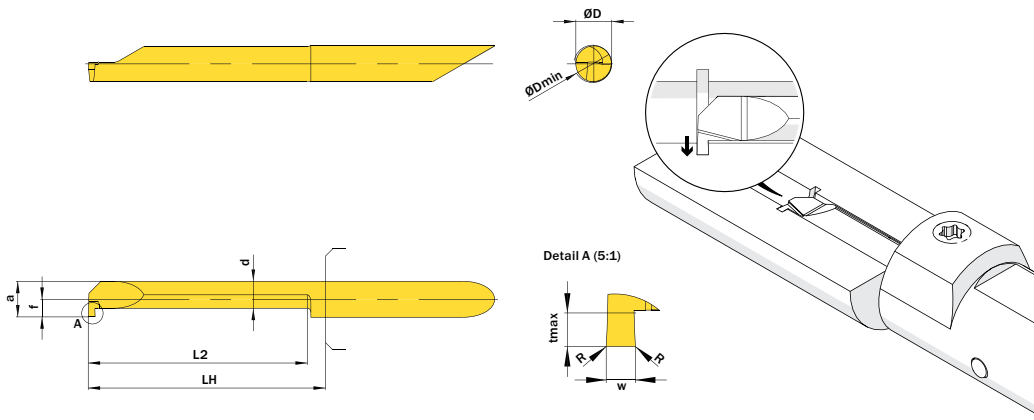
SIMTEK



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 0.79mm</b>														
5.0	0.79	10.2	5.2	+ A05.0078.10.52 GR/L	R AD73 L ADME	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	0.79	15.2	5.2	+ A05.0078.15.52 GR/L	R AKYB L ANF8	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	0.79	20.3	5.2	+ A05.0078.20.52 GR/L	R ANXZ L AE12	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	0.79	25.4	5.2	+ A05.0078.25.52 GR/L	R AHZ2 L AG9U	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	0.79	30.5	5.2	+ A05.0078.30.52 GR/L	R ADYH L AFFQ	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	0.79	35.6	5.2	+ A05.0078.35.52 GR/L	R AGMP L ACT2	G	4.95	3.75	2.45	38.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
<b>w = 1.0mm</b>														
5.0	1.0	10.2	5.2	+ A05.0100.10.52 GR/L	R AEBC L AFST	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	15.2	5.2	+ A05.0100.15.52 GR/L	R ADK5 L AA5P	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	20.3	5.2	+ A05.0100.20.52 GR/L	R AAXA L AH69	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	25.4	5.2	+ A05.0100.25.52 GR/L	R AGA3 L ADBV	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	30.5	5.2	+ A05.0100.30.52 GR/L	R AKAP L AHB5	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	35.6	5.2	+ A05.0100.35.52 GR/L	R ABCY L AMGE	G	4.95	3.75	2.45	38.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
<b>w = 1.17mm</b>														
5.0	1.17	10.2	5.2	+ A05.0117.10.52 GR/L	R AGK0 L AFMN	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	15.2	5.2	+ A05.0117.15.52 GR/L	R AKC3 L APGJ	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	20.3	5.2	+ A05.0117.20.52 GR/L	R AF9G L AGZA	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	25.4	5.2	+ A05.0117.25.52 GR/L	R AKW7 L AAG8	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	30.5	5.2	+ A05.0117.30.52 GR/L	R AC54 L AHK1	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	35.6	5.2	+ A05.0117.35.52 GR/L	R AJH3 L AD6E	G	4.95	3.75	2.45	38.0	-	1.0	R A05.R L A05.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

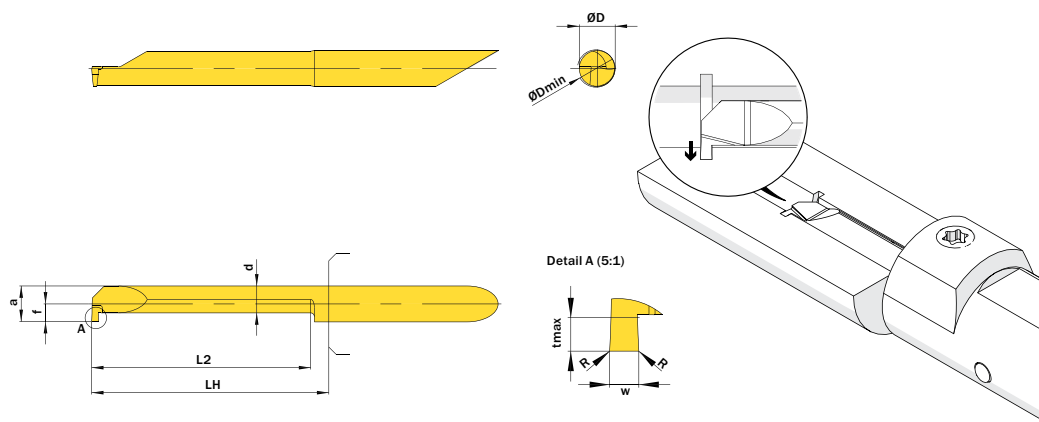


ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.5mm</b>														
5.0	1.5	10.2	5.2	+ A05.0150.10.52 GR/L	R AG38 L AF9C	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	15.2	5.2	+ A05.0150.15.52 GR/L	R ANY8 L AFUK	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	20.3	5.2	+ A05.0150.20.52 GR/L	R AH57 L AJ8D	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	25.4	5.2	+ A05.0150.25.52 GR/L	R AAKF L AFY2	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	30.5	5.2	+ A05.0150.30.52 GR/L	R APVS L ADUG	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	35.6	5.2	+ A05.0150.35.52 GR/L	R AKFJ L AB89	G	4.95	3.75	2.45	38.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
<b>w = 1.57mm</b>														
5.0	1.57	10.2	5.2	+ A05.0157.10.52 GR/L	R APCY L APG8	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.57	15.2	5.2	+ A05.0157.15.52 GR/L	R AMD4 L AHMW	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.57	20.3	5.2	+ A05.0157.20.52 GR/L	R AE6P L APUC	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.57	25.4	5.2	+ A05.0157.25.52 GR/L	R AFY0 L AHMY	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.57	30.5	5.2	+ A05.0157.30.52 GR/L	R AJ06 L AFPD	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
<b>w = 1.98mm</b>														
5.0	1.98	10.2	5.2	+ A05.0198.10.52 GR/L	R AJ4G L AGND	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.98	15.2	5.2	+ A05.0198.15.52 GR/L	R ABHH L ANBC	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.98	20.3	5.2	+ A05.0198.20.52 GR/L	R ACFG L AEM3	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.98	25.4	5.2	+ A05.0198.25.52 GR/L	R ABS3 L AJZV	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.98	30.5	5.2	+ A05.0198.30.52 GR/L	R AJNV L ABNQ	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>

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In-Stock  Left  Right  Both  Two Week Delivery

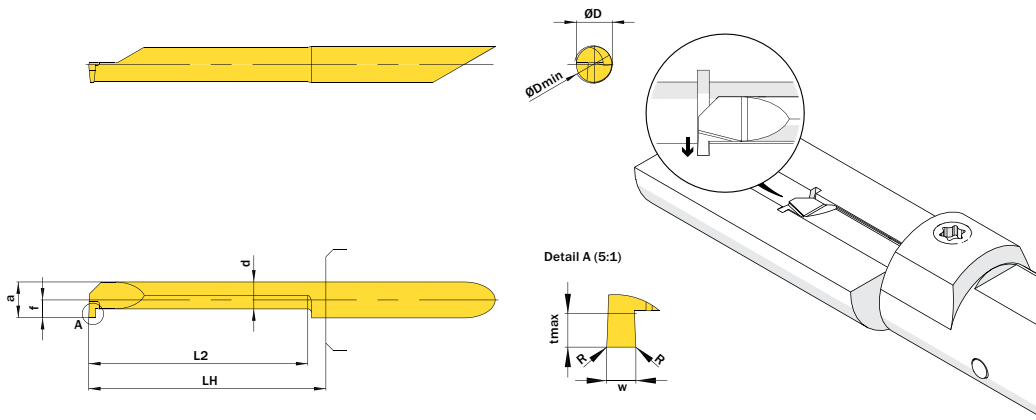
SIMTEK



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>ØD = 5.0mm</b>														
5.0	2.0	10.2	5.2	+ A05.0200.10.52 GR/L	R AEKP L ABTY	G	4.95	3.75	2.45	13.0	-	1.0	R A05.R L A05.L	<input checked="" type="radio"/>
5.0	2.0	15.2	5.2	+ A05.0200.15.52 GR/L	R ACHW L AA3V	G	4.95	3.75	2.45	18.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	2.0	20.3	5.2	+ A05.0200.20.52 GR/L	R AHTZ L AJX6	G	4.95	3.75	2.45	23.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	2.0	25.4	5.2	+ A05.0200.25.52 GR/L	R AMKP L AMNF	G	4.95	3.75	2.45	28.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	2.0	30.5	5.2	+ A05.0200.30.52 GR/L	R AF7J L AJFX	G	4.95	3.75	2.45	33.0	-	1.0	R A05.R L A05.L	<input type="radio"/>
<b>ØD = 6.0mm</b>														
6.0	0.79	10.2	6.2	+ A06.0078.10.62 GR/L	R AC9Z L AMAW	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	0.79	15.2	6.2	+ A06.0078.15.62 GR/L	R AN1C L AGWT	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	0.79	20.3	6.2	+ A06.0078.20.62 GR/L	R AFQZ L AFX4	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	0.79	25.4	6.2	+ A06.0078.25.62 GR/L	R AGD0 L AJZ5	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	0.79	30.5	6.2	+ A06.0078.30.62 GR/L	R ACZD L AMXV	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	0.79	35.6	6.2	+ A06.0078.35.62 GR/L	R ADAE L AKZG	G	5.95	3.95	2.95	38.0	-	1.8	R A06.R L A06.L	<input type="radio"/>

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In-Stock  Left  Right  Both  Two Week Delivery

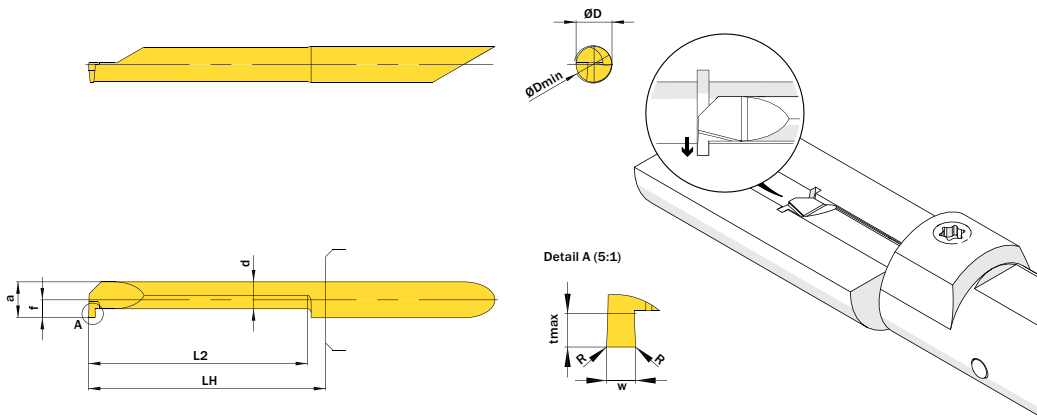


ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.0mm</b>														
6.0	1.0	10.2	6.2	+ A06.0100.10.62 GR/L	R APGK L ADY2	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	15.2	6.2	+ A06.0100.15.62 GR/L	R ACW8 L AH38	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	20.3	6.2	+ A06.0100.20.62 GR/L	R AJE6 L ADE3	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	25.4	6.2	+ A06.0100.25.62 GR/L	R AJXT L AKE0	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	30.5	6.2	+ A06.0100.30.62 GR/L	R AH78 L AK9S	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	35.6	6.2	+ A06.0100.35.62 GR/L	R AJ2E L AF63	G	5.95	3.95	2.95	38.0	-	1.8	R A06.R L A06.L	○
6.0	1.0	40.6	6.2	+ A06.0100.40.62 GR/L	R AKTD L AN3W	G	5.95	3.95	2.95	43.0	-	1.8	R A06.R L A06.L	○
<b>w = 1.17 mm</b>														
6.0	1.17	10.2	6.2	+ A06.0117.10.62 GR/L	R AG4P L AFAB	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	15.2	6.2	+ A06.0117.15.62 GR/L	R ADAP L AA2N	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	20.3	6.2	+ A06.0117.20.62 GR/L	R ADH8 L ACUT	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	25.4	6.2	+ A06.0117.25.62 GR/L	R AC61 L APFG	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	30.5	6.2	+ A06.0117.30.62 GR/L	R AFN5 L AHPK	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	35.6	6.2	+ A06.0117.35.62 GR/L	R APS7 L ANN2	G	5.95	3.95	2.95	38.0	-	1.8	R A06.R L A06.L	○
6.0	1.17	40.6	6.2	+ A06.0117.40.62 GR/L	R AA06 L APY3	G	5.95	3.95	2.95	43.0	-	1.8	R A06.R L A06.L	○

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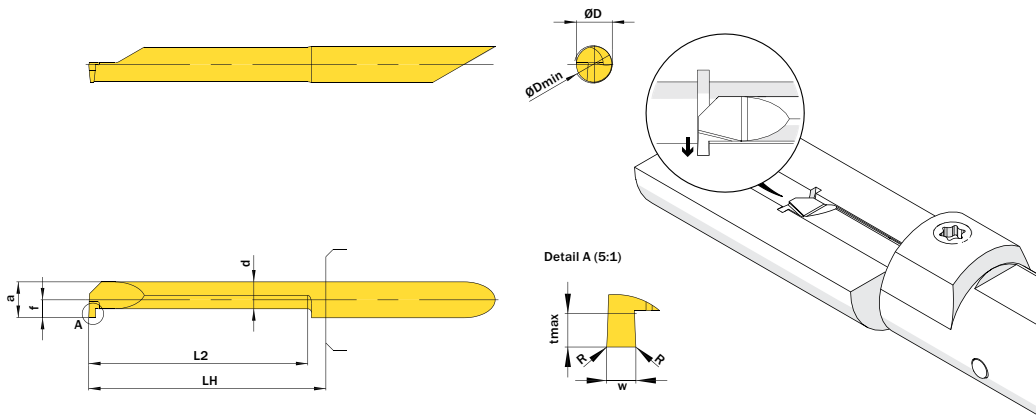
SIMTEK



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.5mm</b>														
6.0	1.5	10.2	6.2	+ A06.0150.10.62 GR/L	R ACH4 L ADTA	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	15.2	6.2	+ A06.0150.15.62 GR/L	R ADPJ L AKTA	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	20.3	6.2	+ A06.0150.20.62 GR/L	R AFH9 L AF35	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	25.4	6.2	+ A06.0150.25.62 GR/L	R AFHV L AJOP	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	30.5	6.2	+ A06.0150.30.62 GR/L	R ANT7 L AGB0	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	35.6	6.2	+ A06.0150.35.62 GR/L	R ACUC L APT7	G	5.95	3.95	2.95	38.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
<b>w = 1.57mm</b>														
6.0	1.57	10.2	6.2	+ A06.0157.10.62 GR/L	R AES5 L AK6U	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	15.2	6.2	+ A06.0157.15.62 GR/L	R AJAB L AJYH	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	20.3	6.2	+ A06.0157.20.62 GR/L	R ADAB L AJBY	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	25.4	6.2	+ A06.0157.25.62 GR/L	R AJFE L AAAE	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	30.5	6.2	+ A06.0157.30.62 GR/L	R AK3J L AK1G	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	35.6	6.2	+ A06.0157.35.62 GR/L	R AMBZ L AHSN	G	5.95	3.95	2.95	38.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	40.6	6.2	+ A06.0157.40.62 GR/L	R AG12 L AH5K	G	5.95	3.95	2.95	43.0	-	1.8	R A06.R L A06.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery



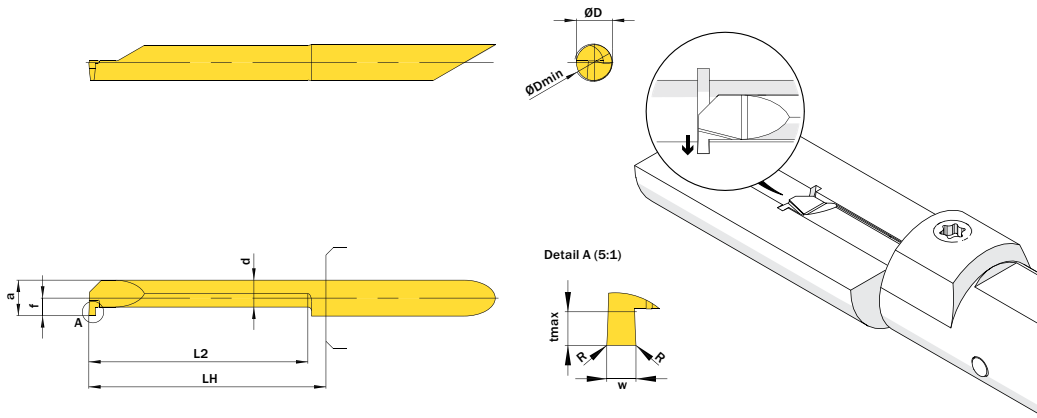
ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>ØD = 6.0mm</b>														
6.0	1.98	10.2	6.2	+ A06.0198.10.62 GR/L	R AH4X L AJBE	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	15.2	6.2	+ A06.0198.15.62 GR/L	R AE9F L ANK9	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	20.3	6.2	+ A06.0198.20.62 GR/L	R AXVN L AFQQ	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	25.4	6.2	+ A06.0198.25.62 GR/L	R AJAX L AMQM	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	30.5	6.2	+ A06.0198.30.62 GR/L	R AJCJ L APFQ	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	10.2	6.2	+ A06.0200.10.62 GR/L	R ABY8 L AK2Q	G	5.95	3.95	2.95	13.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	15.2	6.2	+ A06.0200.15.62 GR/L	R AFYP L AEUP	G	5.95	3.95	2.95	18.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	20.3	6.2	+ A06.0200.20.62 GR/L	R AB0S L AHN0	G	5.95	3.95	2.95	23.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	25.4	6.2	+ A06.0200.25.62 GR/L	R APT6 L AC9V	G	5.95	3.95	2.95	28.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	30.5	6.2	+ A06.0200.30.62 GR/L	R AC74 L ANMU	G	5.95	3.95	2.95	33.0	-	1.8	R A06.R L A06.L	<input type="radio"/>
<b>ØD = 7.0mm</b>														
7.0	0.79	10.2	7.2	+ A07.0078.10.72 GR/L	R ANFU L ACZM	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	15.2	7.2	+ A07.0078.15.72 GR/L	R AJB8 L AF8M	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	20.3	7.2	+ A07.0078.20.72 GR/L	R AG21 L ACUK	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	25.4	7.2	+ A07.0078.25.72 GR/L	R AJM7 L AM36	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	30.5	7.2	+ A07.0078.30.72 GR/L	R ABTA L APCD	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	35.6	7.2	+ A07.0078.35.72 GR/L	R ABGT L APCH	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	0.79	40.6	7.2	+ A07.0078.40.72 GR/L	R ANWX L AJ42	G	6.95	4.25	3.45	43.0	-	2.5	R A07.R L A07.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery



In-Stock  Left  Right  Both   
 Two Week Delivery

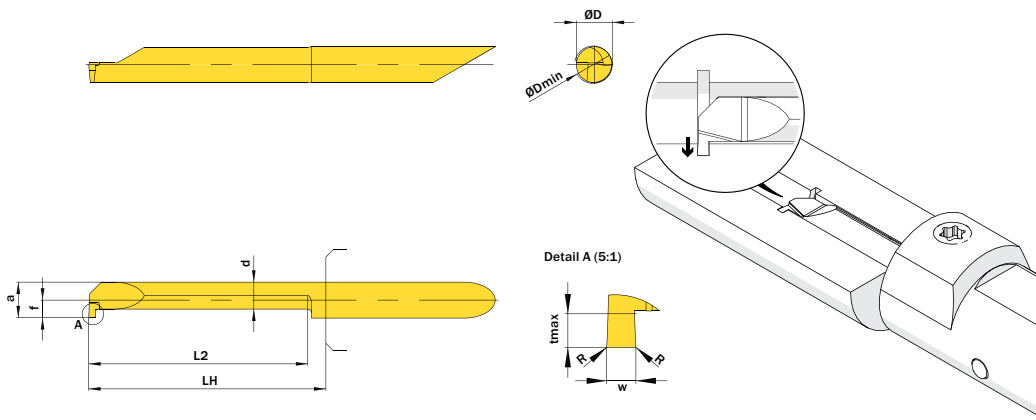
SIMTEK



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.5mm</b>														
7.0	1.0	10.2	7.2	+ A07.0100.10.72 GR/L	R AJW1 L AJHP	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	15.2	7.2	+ A07.0100.15.72 GR/L	R AKT1 L AD20	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	20.3	7.2	+ A07.0100.20.72 GR/L	R AJ70 L AB35	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	25.4	7.2	+ A07.0100.25.72 GR/L	R APYK L AN70	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	30.5	7.2	+ A07.0100.30.72 GR/L	R AA78 L ADG6	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	35.6	7.2	+ A07.0100.35.72 GR/L	R AKNF L AFWS	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.0	40.6	7.2	+ A07.0100.40.72 GR/L	R ADSJ L AHQJ	G	6.95	4.25	3.45	43.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
<b>w = 1.57mm</b>														
7.0	1.17	10.2	7.2	+ A07.0117.10.72 GR/L	R AA4H L AJAH	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input checked="" type="radio"/>
7.0	1.17	15.2	7.2	+ A07.0117.15.72 GR/L	R ADV1 L AHJH	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input checked="" type="radio"/>
7.0	1.17	20.3	7.2	+ A07.0117.20.72 GR/L	R AHVD L AE3M	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.17	25.4	7.2	+ A07.0117.25.72 GR/L	R ANSE L ANPE	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.17	30.5	7.2	+ A07.0117.30.72 GR/L	R AKKW L AB8D	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.17	35.6	7.2	+ A07.0117.35.72 GR/L	R APF9 L AMQA	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.17	40.6	7.2	+ A07.0117.40.72 GR/L	R AFTZ L AEM7	G	6.95	4.25	3.45	43.0	-	2.5	R A07.R L A07.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

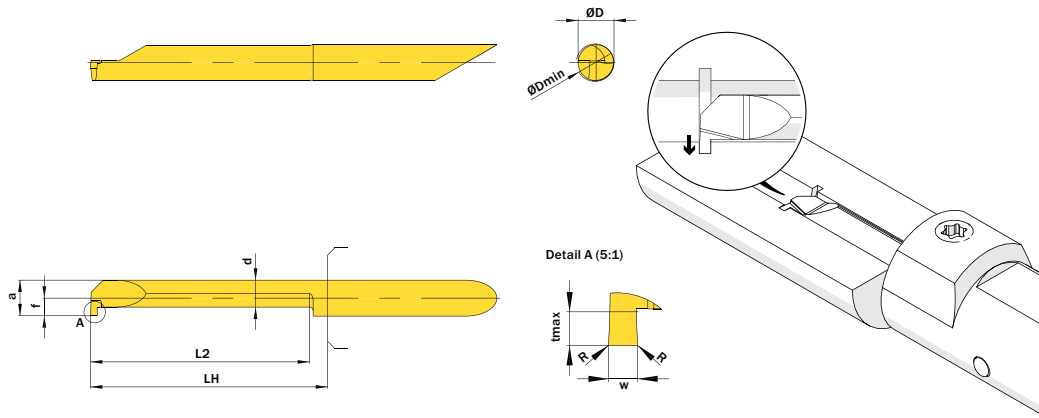


ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.5mm</b>														
7.0	1.5	10.2	7.2	+ A07.0150.10.72 GR/L	R AAN7 L AH5P	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	15.2	7.2	+ A07.0150.15.72 GR/L	R ACHZ L APC2	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	20.3	7.2	+ A07.0150.20.72 GR/L	R AHXA L ADJB	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	25.4	7.2	+ A07.0150.25.72 GR/L	R AJW7 L ANDE	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	30.5	7.2	+ A07.0150.30.72 GR/L	R ACNN L ACEZ	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	35.6	7.2	+ A07.0150.35.72 GR/L	R AGAX L AG9E	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.5	40.6	7.2	+ A07.0150.40.72 GR/L	R AMH7 L AKM9	G	6.95	4.25	3.45	43.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
<b>w = 1.57mm</b>														
7.0	1.57	10.2	7.2	+ A07.0157.10.72 GR/L	R AP08 L ACYH	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	15.2	7.2	+ A07.0157.15.72 GR/L	R AAND L AA4C	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	20.3	7.2	+ A07.0157.20.72 GR/L	R AN5Y L AD2K	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	25.4	7.2	+ A07.0157.25.72 GR/L	R AKKT L AN6P	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	30.5	7.2	+ A07.0157.30.72 GR/L	R ABPX L AHW3	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	35.6	7.2	+ A07.0157.35.72 GR/L	R AMP7 L AMB3	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>
7.0	1.57	40.6	7.2	+ A07.0157.40.72 GR/L	R AFZG L AKJZ	G	6.95	4.25	3.45	43.0	-	2.5	R A07.R L A07.L	<input type="checkbox"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both   
 Two Week Delivery

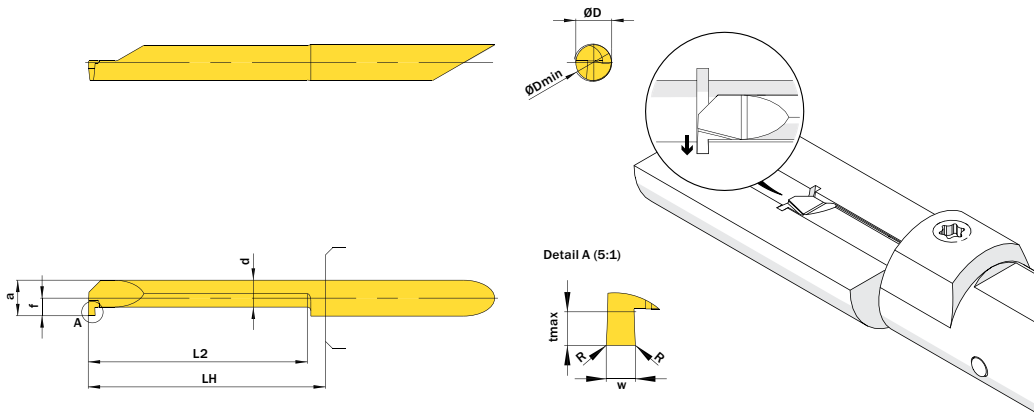
SIMTEK



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.98mm</b>														
7.0	1.98	10.2	7.2	+ A07.0198.10.72 GR/L	R AHMK L APXC	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	15.2	7.2	+ A07.0198.15.72 GR/L	R AENX L AM33	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	20.3	7.2	+ A07.0198.20.72 GR/L	R AEZW L AH9Z	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	25.4	7.2	+ A07.0198.25.72 GR/L	R AB5B L AHE4	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	30.5	7.2	+ A07.0198.30.72 GR/L	R AJQG L AHPP	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	35.6	7.2	+ A07.0198.35.72 GR/L	R AFCM L AF31	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
<b>w = 2.0mm</b>														
7.0	2.0	10.2	7.2	+ A07.0200.10.72 GR/L	R AVF2 L AFA9	G	6.95	4.25	3.45	13.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	15.2	7.2	+ A07.0200.15.72 GR/L	R AEJD L AJMK	G	6.95	4.25	3.45	18.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	20.3	7.2	+ A07.0200.20.72 GR/L	R AAVP L ADHT	G	6.95	4.25	3.45	23.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	25.4	7.2	+ A07.0200.25.72 GR/L	R AGDY L AKJ0	G	6.95	4.25	3.45	28.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	30.5	7.2	+ A07.0200.30.72 GR/L	R AHQQ L APXY	G	6.95	4.25	3.45	33.0	-	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	35.6	7.2	+ A07.0200.35.72 GR/L	R AJNM L APD1	G	6.95	4.25	3.45	38.0	-	2.5	R A07.R L A07.L	<input type="radio"/>

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In-Stock  Left  Right  Both  Two Week Delivery



ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>w = 1.0mm</b>														
10.0	1.0	30.0	10.5	+ A10.0100.30.10 GR/L	R AYEJ L AYEH	G	9.95	5.45	4.95	33.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>
10.0	1.0	50.0	10.5	+ A10.0100.50.10 GR/L	R AYEM L AYEK	G	9.95	5.45	4.95	53.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>
<b>w = 2.0mm</b>														
10.0	2.0	30.0	10.5	+ A10.0200.30.10 GR/L	R AYEP L AYEN	G	9.95	5.45	4.95	33.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>
10.0	2.0	50.0	10.5	+ A10.0200.50.10 GR/L	R AYES L AYEQ	G	9.95	5.45	4.95	53.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>
<b>w = 3.0mm</b>														
10.0	3.0	30.0	10.5	+ A10.0300.30.10 GR/L	R AYEU L AYET	G	9.95	5.45	4.95	33.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>
10.0	3.0	50.0	10.5	+ A10.0300.50.10 GR/L	R AT6F L AYEV	G	9.95	5.45	4.95	53.0	-	4.0	R A10.R L A10.L	<input type="checkbox"/>

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SIMTEK

In-Stock  Left  Right  Both   
 Two Week Delivery

SIMTEK

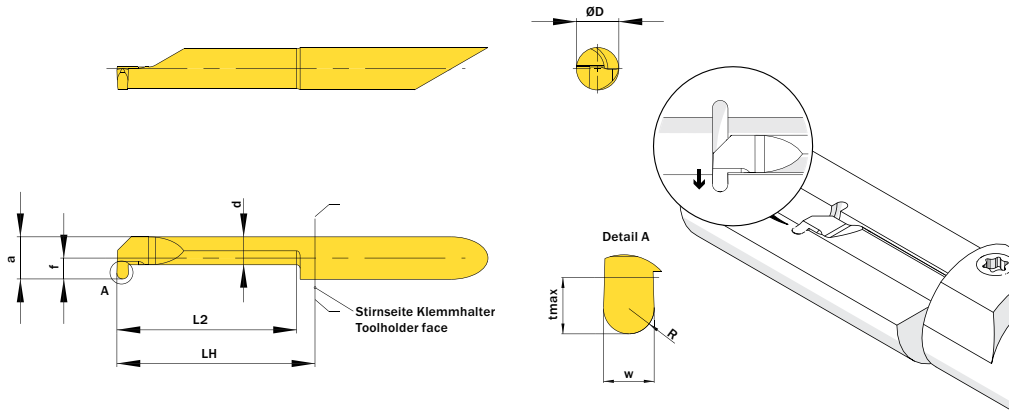


Abbildung zeigt / Drawing shows: A06.0150.25.62 VR

ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm		
<b>ØD = 4.0mm</b>														
4.0	1.0	15.2	4.2	+ A04.0100.15.42 VR/L	R AC9G L ACXS	G	3.95	2.95	1.95	18.0	0.5	0.8	R A04C.R L A04C.L	<input type="radio"/>
4.0	1.17	15.2	4.2	+ A04.0117.15.42 VR/L	R AG4M L AGZT	G	3.95	2.95	1.95	18.0	0.585	0.8	R A04C.R L A04C.L	<input type="radio"/>
<b>ØD = 5.0mm</b>														
5.0	1.0	20.3	5.2	+ A05.0100.20.52 VR/L	R AHPY L AMKU	G	4.95	3.75	2.45	23.0	0.5	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.17	20.3	5.2	+ A05.0117.20.52 VR/L	R AGGW L AFDM	G	4.95	3.75	2.45	23.0	0.585	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.5	20.3	5.2	+ A05.0150.20.52 VR/L	R AA2S L ACC3	G	4.95	3.75	2.45	23.0	0.75	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.574	20.3	5.2	+ A05.0157.20.52 VR/L	R AM8X L APCC	G	4.95	3.75	2.45	23.0	0.787	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.626	20.3	5.2	+ A05.0163.20.52 VR/L	R AT8E L AT8D	G	4.95	3.75	2.45	23.0	0.813	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	1.98	20.3	5.2	+ A05.0198.20.52 VR/L	R AT8G L AT8F	G	4.95	3.75	2.45	23.0	0.99	1.0	R A05.R L A05.L	<input type="radio"/>
5.0	2.0	20.3	5.2	+ A05.0200.20.52 VR/L	R AK1U L AMG6	G	4.95	3.75	2.45	23.0	1.0	1.0	R A05.R L A05.L	<input type="radio"/>
<b>ØD = 6.0mm</b>														
6.0	1.0	25.4	6.2	+ A06.0100.25.62 VR/L	R AKUZ L AFNY	G	5.95	3.95	2.95	28.0	0.5	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.17	25.4	6.2	+ A06.0117.25.62 VR/L	R AKMZ L AGQY	G	5.95	3.95	2.95	28.0	0.585	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	25.4	6.2	+ A06.0150.25.62 VR/L	R AD22 L AMMJ	G	5.95	3.95	2.95	28.0	0.75	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.574	25.4	6.2	+ A06.0157.25.62 VR/L	R AP5G L ANCZ	G	5.95	3.95	2.95	28.0	0.787	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.626	25.4	6.2	+ A06.0163.25.62 VR/L	R AT8J L AT8H	G	5.95	3.95	2.95	28.0	0.813	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	25.4	6.2	+ A06.0198.25.62 VR/L	R AT8M L AT8K	G	5.95	3.95	2.95	28.0	0.99	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	20.3	6.2	+ A06.0200.20.62 VR/L	R AMVK L AFV9	G	5.95	3.95	2.95	23.0	1.0	1.8	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	25.4	6.2	+ A06.0200.25.62 VR/L	R AH3S L AKZ8	G	5.95	3.95	2.95	28.0	1.0	1.8	R A06.R L A06.L	<input type="radio"/>
<b>ØD = 7.0mm</b>														
7.0	1.0	30.5	7.2	+ A07.0100.30.72 VR/L	R AMUA L APBC	G	6.95	4.25	3.45	33.0	0.5	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.17	30.5	7.2	+ A07.0117.30.72 VR/L	R ABU4 L AETJ	G	6.95	4.25	3.45	33.0	0.585	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.5	30.5	7.2	+ A07.0150.30.72 VR/L	R AJX4 L AJG8	G	6.95	4.25	3.45	33.0	0.75	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.574	30.5	7.2	+ A07.0157.30.72 VR/L	R AG9X L AE47	G	6.95	4.25	3.45	33.0	0.787	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	1.98	30.5	7.2	+ A07.0198.30.72 VR/L	R AT8S L AT8Q	G	6.95	4.25	3.45	33.0	0.99	2.5	R A07.R L A07.L	<input type="radio"/>
7.0	2.0	30.5	7.2	+ A07.0200.30.72 VR/L	R ACTT L ACE9	G	6.95	4.25	3.45	33.0	1.0	2.5	R A07.R L A07.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

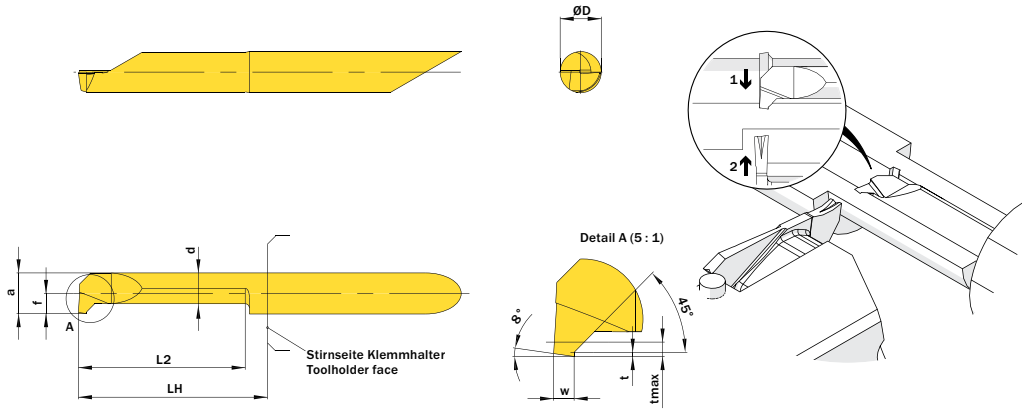


Abbildung zeigt / Drawing shows: A05.0100.20.52 PR

ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	R	tmax	CONNECT-CODE	STOCK	
mm	mm	mm	mm				mm	mm	mm	mm	mm	mm			
<b>ØDmin = 3.7mm</b>															
4.0	1.0	10.2	3.7	-	A04.0100.10.37 PR/L	R AEDE L AVEZ	G	3.45	2.45	1.7	13.0	0.2	0.7	R A04.R/A04C.R L A04.L/A04C.L	<input type="radio"/>
4.0	1.0	15.2	3.7	-	A04.0100.15.37 PR/L	R ACD1 L AVE0	G	3.45	2.45	1.7	18.0	0.2	0.7	R A04.R/A04C.R L A04.L/A04C.L	<input type="radio"/>
<b>ØDmin = 4.2mm</b>															
4.0	1.0	20.3	4.2	+	A04.0100.20.42 PR/L	R AJ2W L AVE1	G	3.95	2.95	1.95	23.0	0.2	0.7	R A04C.R L A04C.L	<input type="radio"/>
<b>ØDmin = 5.2mm</b>															
5.0	1.0	15.2	5.2	+	A05.0100.15.52 PR/L	R AFZX L AD7M	G	4.95	3.75	2.45	18.0	0.2	0.7	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	20.3	5.2	+	A05.0100.20.52 PR/L	R AD0E L ANDY	G	4.95	3.75	2.45	23.0	0.2	0.7	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	25.4	5.2	+	A05.0100.25.52 PR/L	R AHXE L AHFW	G	4.95	3.75	2.45	28.0	0.2	0.7	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	30.5	5.2	+	A05.0100.30.52 PR/L	R AG19 L AH2E	G	4.95	3.75	2.45	33.0	0.2	0.7	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 6.2mm</b>															
6.0	1.0	30.5	6.2	+	A06.0100.30.62 PR/L	R AFNW L AU6N	G	5.95	3.95	2.95	33.0	0.2	0.7	R A06.R L A06.L	<input type="radio"/>
6.0	1.0	40.6	6.2	+	A06.0100.40.62 PR/L	R AB64 L AU6P	G	5.95	3.95	2.95	43.0	0.2	0.7	R A06.R L A06.L	<input type="radio"/>

⊕ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both   
 Two Week Delivery

SIMTEK

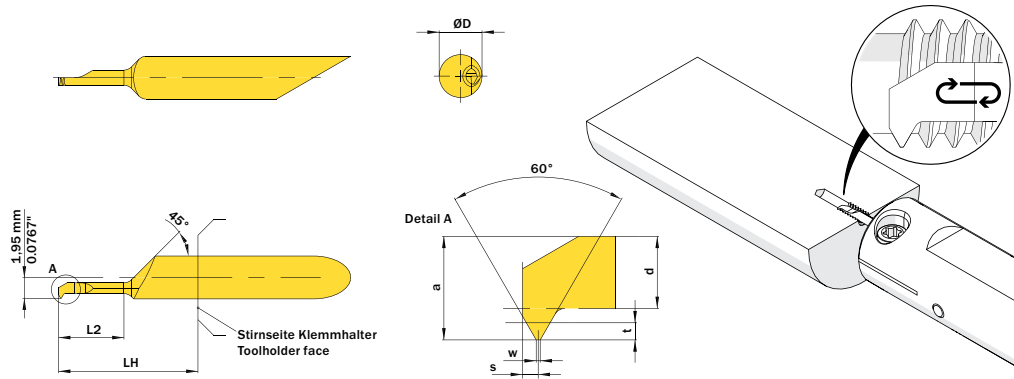


Abbildung zeigt / Drawing shows: A04.M045.01.06.17 M R

ØD	w	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	STD. PITCH THREAD	a	d	LH	S	t	w	CONNECT-CODE	STOCK
mm	mm	mm	mm					mm	mm	mm	mm	mm	mm		
<b>STANDARD. PITCH THREAD = M1</b>															
4.0	0.25	2.5	0.73	+ A04.M025.01.02.07 MR/L R	ABK0 L AD4Z	G	M1	0.67	0.39	13.0	0.14	0.135	0.03	R A04C.R L A04C.L	<input type="radio"/>
<b>STANDARD. PITCH THREAD = M1.6</b>															
4.0	0.35	4.0	1.22	+ A04.M035.01.04.12 MR/L R	AKSA L AE2B	G	M1.6	1.1	0.71	13.0	0.18	0.189	0.04	R A04C.R :L A04C.L	<input type="radio"/>
<b>STANDARD. PITCH THREAD = M2</b>															
4.0	0.4	5.0	1.57	+ A04.M040.01.05.15 MR/L R	AB5T L AG6C	G	M2	1.4	0.98	13.0	0.2	0.216	0.05	R A04C.R L A04C.L	<input type="radio"/>
<b>STANDARD. PITCH THREAD = M2.2</b>															
4.0	0.45	6.0	1.71	+ A04.M045.01.06.17 MR/L R	AH5G L ACVW	G	M2.2	1.45	1.01	13.0	0.22	0.243	0.06	R A04C.R L A04C.L	<input type="radio"/>
<b>STANDARD. PITCH THREAD = M3</b>															
4.0	0.5	7.6	2.46	+ A04.M050.01.07.24 MR/L R	ADAU L ABCW	G	M3	2.2	1.73	13.0	0.24	0.271	0.06	R A04C.R L A04C.L	<input type="radio"/>
<b>STANDARD. PITCH THREAD = M4</b>															
4.0	0.7	10.2	3.24	+ A04.M070.01.10.32 MR/L R	ABVG L AAKY	G	M4	2.95	2.37	13.0	0.32	0.32	0.09	R A04C.R L A04C.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

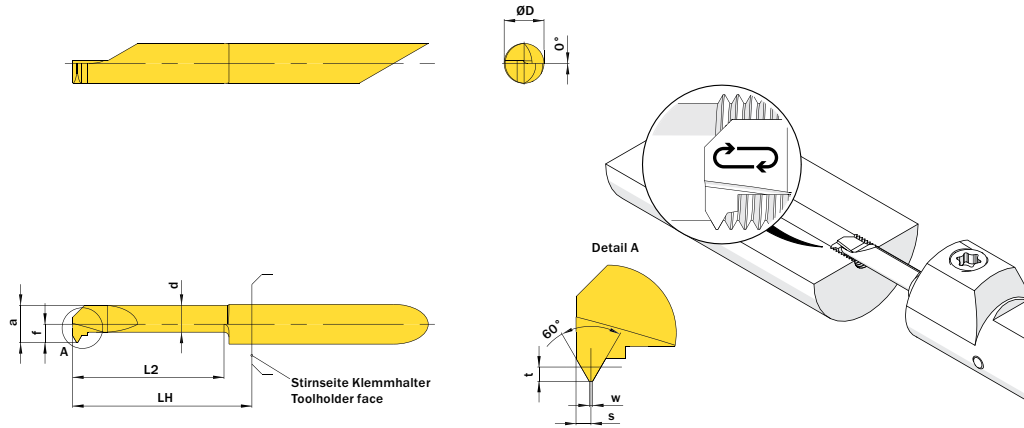


Abbildung zeigt / Drawing shows: A04.MT08.01.15.39 M R

ØD	MIN. PITCH	MAX. PITCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	S	t	w	CONNECT-CODE	STOCK
mm	mm	mm	mm	mm				mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 3.9mm</b>																
4.0	0.8	1.0	15.2	3.9	+ A04.MT08.01.15.39 MR/L R	AW95 L AXA0	G	3.65	2.7	1.95	18.0	0.45	0.46	0.1	R A04C.R L A04C.L	<input type="radio"/>
<b>ØDmin = 4.2mm</b>																
4.0	0.5	0.7	15.2	4.2	+ A04.MT05.01.15.42 MR/L R	AD6S L AHZD	G	3.95	2.95	1.95	18.0	0.35	0.4	0.06	R A04C.R L A04C.L	<input type="radio"/>
<b>ØDmin = 4.8mm</b>																
5.0	1.0	1.25	15.2	4.8	+ A05.MT10.01.15.48 MR/L R	AJA0 L ABPY	G	4.55	3.55	2.25	18.0	0.55	0.7	0.12	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	1.25	20.3	4.8	+ A05.MT10.01.20.48 MR/L R	ACSK L AK4K	G	4.55	3.55	2.25	23.0	0.55	0.7	0.12	R A05.R L A05.L	<input type="radio"/>
5.0	1.0	1.25	25.4	4.8	+ A05.MT10.01.25.48 MR/L R	AH4D L AHJU	G	4.55	3.55	2.25	28.0	0.55	0.7	0.12	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 5.1mm</b>																
5.0	0.75	1.0	15.2	5.1	+ A05.MT07.01.15.51 MR/L R	APGS L ADYW	G	4.85	3.65	2.35	18.0	0.45	0.57	0.09	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 2.2mm</b>																
5.0	0.5	0.75	15.2	5.2	+ A05.MT05.01.15.52 MR/L R	AE44 L APTP	G	4.95	3.75	2.45	18.0	0.35	0.43	0.06	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 6.2mm</b>																
6.0	1.0	1.25	15.2	6.2	+ A06.MT10.01.15.62 MR/L R	AAT9 L APQ7	G	5.95	3.95	2.95	18.0	0.55	0.7	0.12	R A06.R L A06.L	<input type="radio"/>
6.0	1.25	1.5	15.2	6.2	+ A06.MT12.01.15.62 MR/L R	AG92 L APSQ	G	5.95	3.95	2.95	18.0	0.75	0.84	0.16	R A06.R L A06.L	<input type="radio"/>
6.0	1.25	1.5	20.3	6.2	+ A06.MT12.01.20.62 MR/L R	ABDJ L AFV2	G	5.95	3.95	2.95	23.0	0.75	0.84	0.16	R A06.R L A06.L	<input type="radio"/>
6.0	1.25	1.5	25.4	6.2	+ A06.MT12.01.25.62 MR/L R	ABY1 L AJGW	G	5.95	3.95	2.95	28.0	0.75	0.84	0.16	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	1.75	15.2	6.2	+ A06.MT15.01.15.62 MR/L R	AHZW L AKQS	G	5.95	3.95	2.95	18.0	0.8	0.98	0.18	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	1.75	20.3	6.2	+ A06.MT15.01.20.62 MR/L R	AAT5 L AECJ	G	5.95	3.95	2.95	23.0	0.8	0.98	0.18	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	1.75	25.4	6.2	+ A06.MT15.01.25.62 MR/L R	AACA L AB3N	G	5.95	3.95	2.95	28.0	0.8	0.98	0.18	R A06.R L A06.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery



In-Stock  Left  Right  Both  Two Week Delivery

SIMTEK

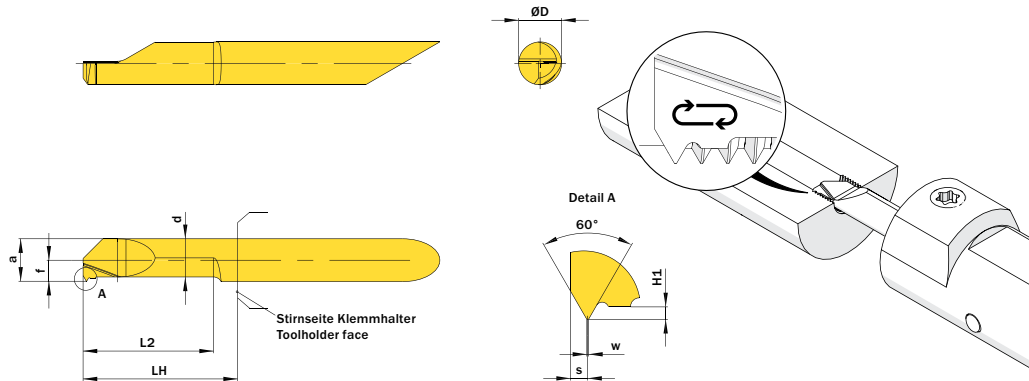


Abbildung zeigt / Drawing shows: A05.MT05.02.15.52 MR

ØD	MIN. PITCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	H1	LH	S	w	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm			mm	mm			
<b>ØDmin = 3.2mm</b>															
4.0	0.7	15.2	3.2	+ A04.MT07.02.15.32 MR/L R	AX2A L AX2B	G	2.95	2.35	1.95	0.38	18.0	0.45	0.09	R A04C.R L A04C.L	<input type="checkbox"/>
<b>ØDmin = 3.9mm</b>															
4.0	0.8	15.2	3.9	+ A04.MT08.02.15.39 MR/L R	AW96 L AXA1	G	3.65	2.9	1.95	0.43	18.0	0.5	0.1	R A04C.R L A04C.L	<input type="checkbox"/>
<b>ØDmin = 4.2mm</b>															
4.0	0.5	15.2	4.2	+ A04.MT05.02.15.42 MR/L R	AM3S L APPS	G	3.95	3.45	1.95	0.27	18.0	0.4	0.06	R A04C.R L A04C.L	<input type="checkbox"/>
4.0	0.7	15.2	4.2	+ A04.MT07.02.15.42 MR/L R	AX5W L AX5V	G	3.95	3.35	1.95	0.38	18.0	0.45	0.09	R A04C.R L A04C.L	<input type="checkbox"/>
<b>ØDmin = 4.8mm</b>															
5.0	1.0	15.2	4.8	+ A05.MT10.02.15.48 MR/L R	AANF L ANT3	G	4.55	3.55	2.25	0.54	18.0	0.6	0.12	R A05.R L A05.L	<input type="checkbox"/>
<b>ØDmin = 5.1mm</b>															
5.0	0.75	15.2	5.1	+ A05.MT75.02.15.51 MR/L R	AAP5 L ABV5	G	4.85	4.15	2.4	0.4	18.0	0.5	0.09	R A05.R L A05.L	<input type="checkbox"/>
<b>ØDmin = 5.2mm</b>															
5.0	0.5	15.2	5.2	+ A05.MT05.02.15.52 MR/L R	AGN4 L ABNU	G	4.95	4.45	2.45	0.27	18.0	0.4	0.06	R A05.R L A05.L	<input type="checkbox"/>
<b>ØDmin = 6.2mm</b>															
6.0	1.0	15.2	6.2	+ A06.MT10.02.15.62 MR/L R	ANZG L APA6	G	5.95	5.05	2.95	0.54	18.0	0.6	0.12	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.25	15.2	6.2	+ A06.MT12.02.15.62 MR/L R	ANSN L AB2Z	G	5.95	4.8	2.95	0.67	18.0	0.7	0.15	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.5	15.2	6.2	+ A06.MT15.02.15.62 MR/L R	ADMY L ADBX	G	5.95	4.5	2.95	0.81	18.0	0.8	0.18	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.75	15.2	6.2	+ A06.MT17.02.15.62 MR/L R	APC1 L AKJ7	G	5.95	4.3	2.95	0.94	18.0	0.9	0.21	R A06.R L A06.L	<input type="checkbox"/>
6.0	2.0	15.2	6.2	+ A06.MT20.02.15.62 MR/L R	AK5N L AN51	G	5.95	4.1	2.95	1.08	18.0	1.0	0.25	R A06.R L A06.L	<input type="checkbox"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

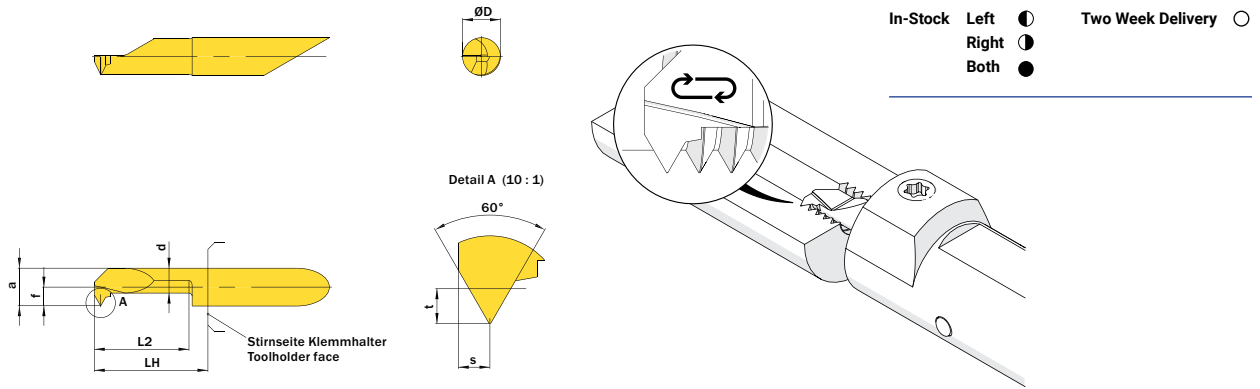


Abbildung zeigt / Drawing shows: A06.NP18.01.15.62 M R

ØD	MIN. PITCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	S	tmax	w	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm			mm	mm			
<b>ØDmin = 6.2mm</b>															
6.0	1.5	20.3	6.2	+ A06.TR15.01.20.62 MR/L	R AF38 L ABDP	G	5.95	4.9	2.95	23.0	0.6	0.9	0.47	R A06.R L A06.L	○
6.0	2.0	20.3	6.2	+ A06.TR20.01.20.62 MR/L	R AAZ9 L AMPG	G	5.95	4.55	2.95	23.0	0.75	1.25	0.6	R A06.R L A06.L	○
<b>ØDmin = 7.2mm</b>															
7.0	2.0	20.3	7.2	+ A07.TR20.01.20.72 MR/L	R AHAK L AK4J	G	6.95	5.05	3.45	23.0	0.75	1.25	0.59	R A07.R L A07.L	○
7.0	2.0	30.5	7.2	+ A07.TR20.01.30.72 MR/L	R AGM5 L AEG5	G	6.95	5.05	3.45	33.0	0.75	1.25	0.59	R A07.R L A07.L	○
7.0	3.0	20.3	7.2	+ A07.TR30.01.20.72 MR/L	R AKCZ L AJGN	G	6.95	4.55	3.45	23.0	1.1	1.75	0.69	R A07.R L A07.L	○
7.0	3.0	30.5	7.2	+ A07.TR30.01.30.72 MR/L	R APWE L AKJD	G	6.95	4.55	3.45	33.0	1.1	1.75	0.96	R A07.R L A07.L	○

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

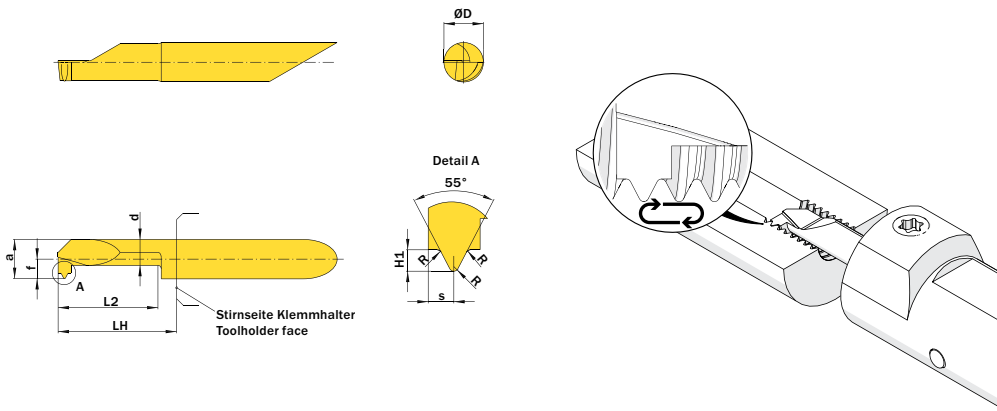


Abbildung zeigt / Drawing shows: A06.BS20.02.15.62 MR

ØD	THREADS /INCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	S	t	CONNECT-CODE	STOCK	
mm	mm	mm	mm				mm	mm			mm				
<b>THREADS/INCH = 18</b>															
6.0	18	15.2	6.2	+ A06.NP18.01.15.62 MR/L	R AC4A L AMGC	G	5.95	3.95	2.95	18.0	1.0	1.35	R A06.R L 406.L	○	
<b>THREADS/INCH = 27</b>															
6.0	27	15.2	6.2	+ A06.NP27.01.15.62 MR/L	R APHY L AM4Y	G	5.95	3.95	2.95	18.0	0.8	1.0	R A06.R L A06.L	○	

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both   
 Two Week Delivery

SIMTEK

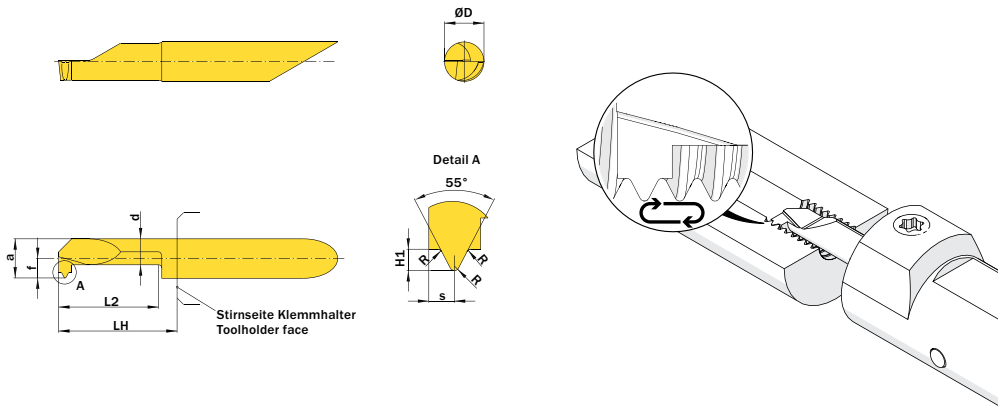


Abbildung zeigt / Drawing shows: A06.BS20.02.15.62 MR

ØD	THREADS / INCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	LH	S	t	w	CONNECT-CODE	STOCK
							mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 4.2mm</b>															
4.0	32-40	15.2	4.2	+ A04.UN32.01.15.42 MR/L R	AF1W L AASQ	G	3.95	2.95	1.95	18.0	0.45	0.49	0.08	R A04C.R L A04C.L	<input type="radio"/>
<b>ØDmin = 5.2mm</b>															
5.0	24-28	15.2	5.2	+ A05.UN24.01.15.52 MR/L R	APZB L ANS8	G	4.95	3.75	2.45	18.0	0.55	0.64	0.11	R A05.R L A05.L	<input type="radio"/>
5.0	32-40	15.2	5.2	+ A05.UN32.01.15.52 MR/L R	AEH2 L ANNA	G	4.95	3.75	2.45	18.0	0.45	0.49	0.08	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 6.2mm</b>															
6.0	16-20	15.2	6.2	+ A06.UN16.01.15.62 MR/L R	AA4A L ADKY	G	5.95	3.95	2.95	18.0	0.9	0.97	0.16	R A06.R L A06.L	<input type="radio"/>
6.0	24-28	15.2	6.2	+ A06.UN24.01.15.62 MR/L R	ACDX L ADTJ	G	5.95	3.95	2.95	18.0	0.55	0.64	0.11	R A06.R L A06.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

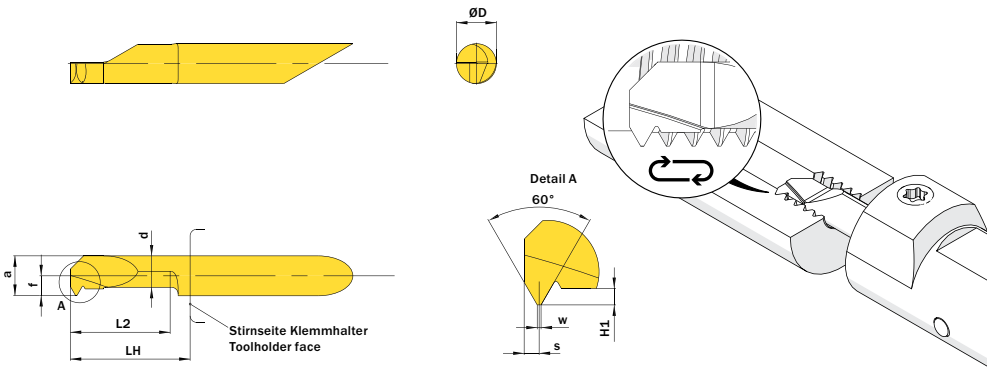


Abbildung zeigt / Drawing shows: A04.UN14.02.15.62 M R

ØD	THREADS / INCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	H1	LH	MIN. PITCH	S	w	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm				mm				
<b>ØDmin = 4.0mm</b>																
4.0	28	15.2	4.0	+ A04.UN28.02.15.39 MR/L R	AW98 L AD3Q	G	3.75	2.95	1.85	0.49	18.0	0.907	0.6	0.11	R A04C.R L A04C.L	<input type="checkbox"/>
4.0	32	15.2	4.0	+ A04.UN32.02.15.39 MR/L R	AW97 L AXA2	G	3.75	2.95	1.85	0.43	18.0	0.794	0.55	0.1	R A04C.R L A04C.L	<input type="checkbox"/>
<b>ØDmin = 4.2mm</b>																
4.0	24	15.2	4.2	+ A04.UN24.02.15.42 MR/L R	ACKF L AAPQ	G	3.95	3.05	1.95	0.57	18.0	1.058	0.65	0.13	R A04C.R L A04C.L	<input type="checkbox"/>
<b>ØDmin = 5.2mm</b>																
5.0	20	15.2	5.2	+ A05.UN20.02.15.52 MR/L R	AJXH L ATV1	G	4.95	3.95	2.45	0.69	18.0	1.27	0.7	0.16	R A05.R L A05.L	<input type="checkbox"/>
<b>ØDmin = 6.2mm</b>																
6.0	14	15.2	6.2	+ A06.UN14.02.15.62 MR/L R	AGVT L AEUU	G	5.95	4.55	2.95	0.98	18.0	1.814	0.9	0.23	R A06.R L A06.L	<input type="checkbox"/>
6.0	16	15.2	6.2	+ A06.UN16.02.15.62 MR/L R	AMTC L AGN9	G	5.95	4.75	2.95	0.86	18.0	1.588	0.85	0.2	R A06.R L A06.L	<input type="checkbox"/>
6.0	18	15.2	6.2	+ A06.UN18.02.15.62 MR/L R	AK2J L AFD2	G	5.95	4.85	2.95	0.76	18.0	1.411	0.75	0.18	R A06.R L A06.L	<input type="checkbox"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

SIMTEK

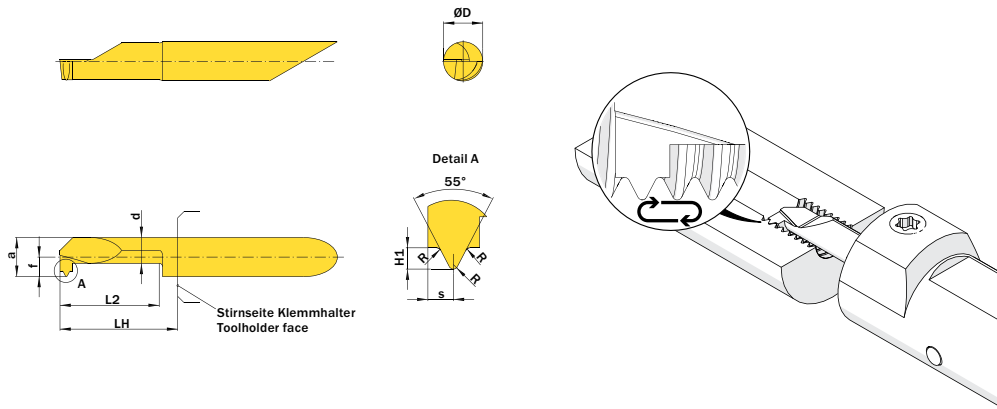


Abbildung zeigt / Drawing shows: A06.BS20.02.15.62 MR

ØD	THREADS / INCH	L2	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	d	f	H1	LH	MIN. PITCH	S	w	CONNECT-CODE	STOCK
<b>ØDmin = 5.2mm</b>																
5.0	24	15.2	5.2	+ A05.BS24.02.15.52 MR/L R	AJKA L APDA	G	4.95	3.75	2.45	0.677	18.0	1.058	0.145	0.8	R A05.R L A05.L	<input type="radio"/>
5.0	26	15.2	5.2	+ A05.BS26.02.15.52 MR/L R	AF70 L AFBU	G	4.95	3.75	2.45	0.625	18.0	0.977	0.134	0.8	R A05.R L A05.L	<input type="radio"/>
5.0	28	15.2	5.2	+ A05.BS28.02.15.52 MR/L R	ABB4 L AGQA	G	4.95	3.75	2.45	0.581	18.0	0.907	0.124	0.8	R A05.R L A05.L	<input type="radio"/>
<b>ØDmin = 6.2mm</b>																
6.0	19	15.2	6.2	+ A06.BS19.02.15.62 MR/L R	AHFD L ANAY	G	5.95	3.95	2.95	0.856	18.0	1.337	0.183	1.0	R A06.R L A06.L	<input type="radio"/>
6.0	20	15.2	6.2	+ A06.BS20.02.15.62 MR/L R	AHVF L AAVT	G	5.95	3.95	2.95	0.813	18.0	1.27	0.174	1.0	R A06.R L A06.L	<input type="radio"/>
6.0	22	15.2	6.2	+ A06.BS22.02.15.62 MR/L R	AGES L AKD7	G	5.95	3.95	2.95	0.739	18.0	1.155	0.158	1.0	R A06.R L A06.L	<input type="radio"/>
6.0	24	15.2	6.2	+ A06.BS24.02.15.62 MR/L R	AKC7 L AFWW	G	5.95	3.95	2.95	0.677	18.0	1.058	0.145	0.8	R A06.R L A06.L	<input type="radio"/>
6.0	26	15.2	6.2	+ A06.BS26.02.15.62 MR/L R	AMDA L AJ45	G	5.95	3.95	2.95	0.625	18.0	0.977	0.134	0.8	R A06.R L A06.L	<input type="radio"/>
6.0	28	15.2	6.2	+ A06.BS28.02.15.62 MR/L R	AFKD L AA9Q	G	5.95	3.95	2.95	0.581	18.0	0.907	0.124	0.8	R A06.R L A06.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

# FACE GROOVING - AX



In-Stock  Left  Right  Both  Two Week Delivery

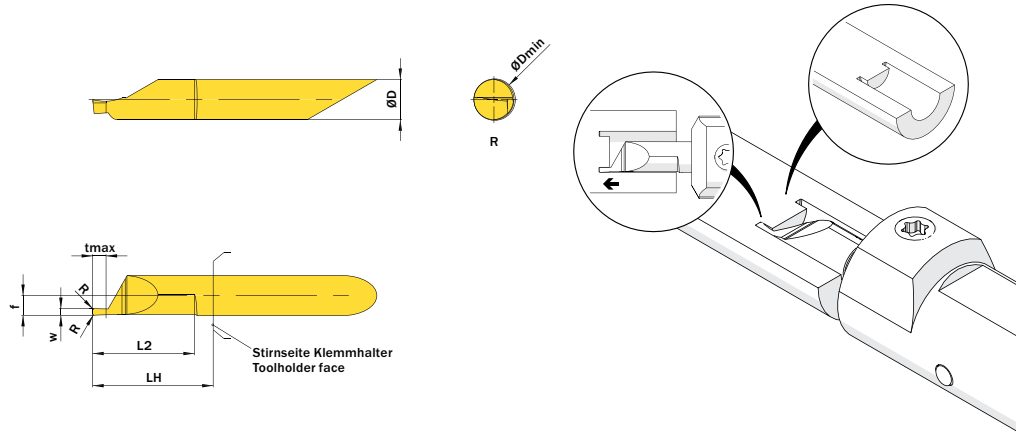


Abbildung zeigt / Drawing shows: A06.0100.15.01 AG R

ØD	w	L2	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	DDmin	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm										
<b>R = 0.05mm</b>												
6.0	0.79	15.2	+ A06.0078.15.01.05 AG R/L	R AYU8 L AYU9	G	6.2	2.95	18.0	0.05	1.8	R A06.R L A06.L	<input type="checkbox"/>
6.0	0.79	15.2	+ A06.0078.15.02.05 AG R/L	R AYVG L AYVJ	G	6.2	2.95	18.0	0.05	1.8	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.0	15.2	+ A06.0100.15.01.05 AG R/L	R AYU7 L AYU1	G	6.2	2.95	18.0	0.05	2.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.0	15.2	+ A06.0100.15.02.05 AG R/L	R AYVE L AYVF	G	6.2	2.95	18.0	0.05	2.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.5	15.2	+ A06.0150.15.01.05 AG R/L	R AYVA L AYVB	G	6.2	2.95	18.0	0.05	3.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.5	15.2	+ A06.0150.15.02.05 AG R/L	R AYVC L AYVD	G	6.2	2.95	18.0	0.05	3.0	R A06.R L A06.L	<input type="checkbox"/>
<b>R = 0.15mm</b>												
6.0	1.0	15.2	+ A06.0100.15.01 AG R/L	R AB01 L AH2V	G	6.2	2.95	18.0	0.15	2.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.17	15.2	+ A06.0117.15.01 AG R/L	R ANY2 L AP1G	G	6.2	2.95	18.0	0.15	2.34	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.5	15.2	+ A06.0150.15.01 AG R/L	R AMN7 L AHFP	G	6.2	2.95	18.0	0.15	3.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.57	15.2	+ A06.0157.15.01 AG R/L	R ANJ5 L AG36	G	6.2	2.95	18.0	0.15	3.15	R A06.R L A06.L	<input type="checkbox"/>
6.0	1.98	15.2	+ A06.0198.15.01 AG R/L	R AEBQ L APCJ	G	6.2	2.95	18.0	0.15	3.95	R A06.R L A06.L	<input type="checkbox"/>
6.0	2.0	15.2	+ A06.0200.15.01 AG R/L	R AJ67 L AMKX	G	6.2	2.95	18.0	0.15	4.0	R A06.R L A06.L	<input checked="" type="radio"/>
6.0	2.39	15.2	+ A06.0239.15.01 AG R/L	R AF9A L ACZ4	G	6.2	2.95	18.0	0.15	5.0	R A06.R L A06.L	<input checked="" type="radio"/>
6.0	2.5	15.2	+ A06.0250.15.01 AG R/L	R AHG4 L AGS3	G	6.2	2.95	18.0	0.15	5.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	3.0	15.2	+ A06.0300.15.01 AG R/L	R ABX0 L AGAS	G	6.2	2.95	18.0	0.15	6.0	R A06.R L A06.L	<input type="checkbox"/>
6.0	3.18	15.2	+ A06.0318.15.01 AG R/L	R AM8N L AMGF	G	6.2	2.95	18.0	0.15	6.0	R A06.R L A06.L	<input type="checkbox"/>

+ = Optimized coolant delivery (new style) - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery

SIMTEK

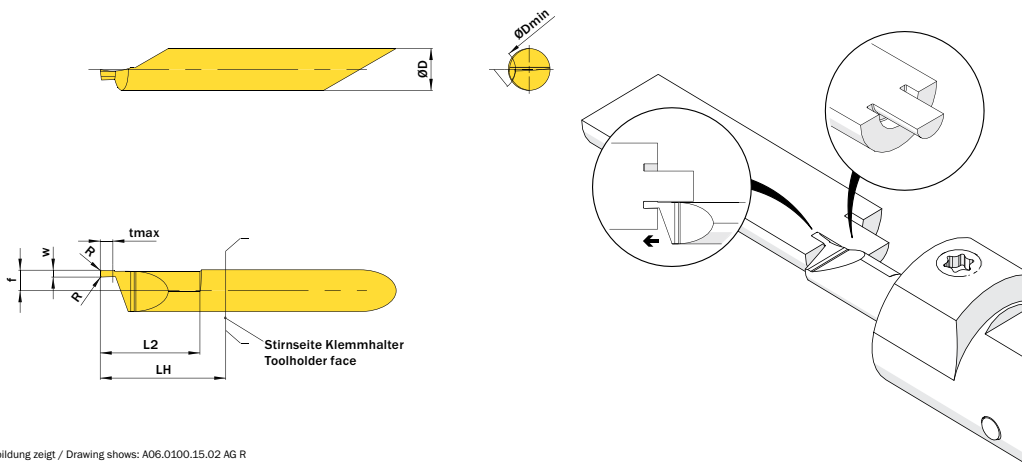
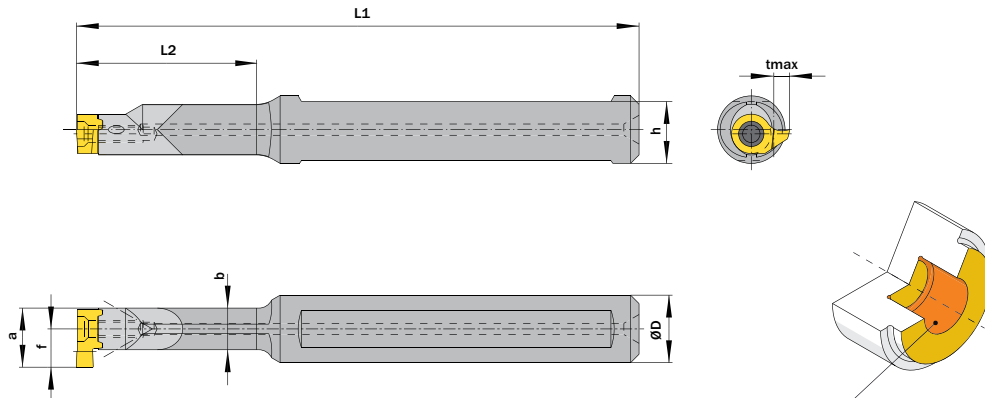


Abbildung zeigt / Drawing shows: A06.0100.15.02 AG R

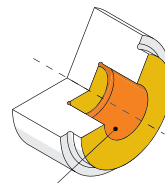
ØD	w	L2		PART NUMBER	WEBCODE	CUTTING GRADE GROUP	ØDmin	f	LH	R	tmax	CONNECT-CODE	STOCK
mm	mm	mm											
6.0	1.0	15.2	+	A06.0100.15.02 AG R/L	R ABQA L AETM	G	6.2	2.95	18.0	0.15	2.0	R A06.R L A06.L	<input type="radio"/>
6.0	1.17	15.2	+	A06.0117.15.02 AG R/L	R AAUY L AGYT	G	6.2	2.95	18.0	0.15	2.34	R A06.R L A06.L	<input type="radio"/>
6.0	1.5	15.2	+	A06.0150.15.02 AG R/L	R AN6W L AMBS	G	6.2	2.95	18.0	0.15	3.0	R A06.R L A06.L	<input type="radio"/>
6.0	1.57	15.2	+	A06.0157.15.02 AG R/L	R ANGN L ABMM	G	6.2	2.95	18.0	0.15	3.15	R A06.R L A06.L	<input type="radio"/>
6.0	1.98	15.2	+	A06.0198.15.02 AG R/L	R AC8Q L ABEM	G	6.2	2.95	18.0	0.15	3.95	R A06.R L A06.L	<input type="radio"/>
6.0	2.0	15.2	+	A06.0200.15.02 AG R/L	R AA2D L AK6M	G	6.2	2.95	18.0	0.15	4.0	R A06.R L A06.L	<input checked="" type="radio"/>
6.0	2.39	15.2	+	A06.0239.15.02 AG R/L	R AH42 L AJSW	G	6.2	2.95	18.0	0.15	5.0	R A06.R L A06.L	<input checked="" type="radio"/>
6.0	2.5	15.2	+	A06.0250.15.02 AG R/L	R AG4W L APF4	G	6.2	2.95	18.0	0.15	5.0	R A06.R L A06.L	<input type="radio"/>
6.0	3.0	15.2	+	A06.0300.15.02 AG R/L	R ABGJ L AJNY	G	6.2	2.95	18.0	0.15	6.0	R A06.R L A06.L	<input checked="" type="radio"/>
6.0	3.18	15.2	+	A06.0318.15.02 AG R/L	R ABXE L AN9H	G	6.2	2.95	18.0	0.15	6.0	R A06.R L A06.L	<input type="radio"/>

+ = Optimized coolant delivery (new style)    - = Classic coolant delivery

In-Stock  Left  Right  Both  Two Week Delivery



Maße „a“ und „f“ sind abhängig vom verwendeten Schneideinsatz.  
Dimensions „a“ and „f“ depend on used carbide inserts.



■ Hauptsächlich geeignet für diese Flächen  
 Mainly designed for these Surfaces  
■ Je nach Schneidplatte ebenfalls möglich  
 Also possible depending on insert type

INCH SHANK											
ØD	L2	PART NUMBER	WEBCODE	b	h	L1	tmax	SCREW	SCREW DRIVER	CONNECT-CODE	STOCK
mm	mm			mm	mm	mm					
<b>ØD = 12.7mm</b>											
12.7*	21.0	<b>D08.0.500.21 HM</b>	AF99	6.0	12.2	80.0	1.0	D M2.6x8 T8F	T8F	D08	<input type="radio"/>
12.7*	30.0	<b>D08.0.500.30 HM</b>	AEZK	6.0	12.2	90.0	1.0	D M2.6x8 T8F	T8F	D08	<input type="radio"/>
12.7*	42.0	<b>D08.0.500.42 HM</b>	AHCK	6.0	12.2	100.0	1.0	D M2.6x8 T8F	T8F	D08	<input type="radio"/>
<b>ØD = 12.7mm</b>											
12.7*	32.0	<b>D10.0.500.32 HM</b>	AB32	7.4	11.7	100.0	3.4	D M3x9 T9F	T9F	D10	<input type="radio"/>
12.7*	48.0	<b>D10.0.500.48 HM</b>	APKH	7.4	11.7	115.0	3.4	D M3x9 T9F	T9F	D10	<input type="radio"/>
12.7*	64.0	<b>D10.0.500.64 HM</b>	ADFU	7.4	11.7	130.0	3.4	D M3x9 T9F	T9F	D10	<input type="radio"/>
<b>ØD = 12.7mm</b>											
12.7*	29.0	<b>D11.0.500.29 HM</b>	AGZ0	8.0	11.7	95.0	2.3	D M3.5x10 T10F	T10F	D11	<input type="radio"/>
12.7*	42.0	<b>D11.0.500.42 HM</b>	ABCD	8.0	11.7	110.0	2.3	D M3.5x10 T10F	T10F	D11	<input type="radio"/>
12.7*	56.0	<b>D11.0.500.56 HM</b>	AHP0	8.0	11.7	120.0	2.3	D M3.5x10 T10F	T10F	D11	<input type="radio"/>
<b>ØD = 12.7-15.875mm</b>											
15.875**	20.0	<b>D14.0.625.20 ST</b>	ADZ8	9.5	14.875	100.0	6.5	D M4x12 T15F	T15F	D14	<input checked="" type="radio"/>
12.7*	34.0	<b>D14.0.500.34 HM</b>	AEBY	9.5	11.7	100.0	6.5	D M4x12 T15F	T15F	D14	<input type="radio"/>
12.7*	45.0	<b>D14.0.500.45 HM</b>	AEZJ	9.5	11.7	110.0	6.5	D M4x12 T15F	T15F	D14	<input checked="" type="radio"/>
12.7*	64.0	<b>D14.0.500.64 HM</b>	AAEN	9.5	11.7	130.0	6.5	D M4x12 T15F	T15F	D14	<input type="radio"/>
15.875**	34.0	<b>D14.0.625.34 HM</b>	AG7B	9.5	14.875	100.0	6.5	D M4x12 T15F	T15F	D14	<input checked="" type="radio"/>
15.875**	45.0	<b>D14.0.625.45 HM</b>	AB11	9.5	14.875	110.0	6.5	D M4x12 T15F	T15F	D14	<input checked="" type="radio"/>
15.875**	64.0	<b>D14.0.625.64 HM</b>	AAMU	9.5	14.875	130.0	6.5	D M4x12 T15F	T15F	D14	<input type="radio"/>
<b>ØD = 12.7-15.875mm</b>											
12.7*	40.0	<b>D16.0.500.40 HM</b>	AK10	11.0	11.7	130.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
12.7*	56.0	<b>D16.0.500.56 HM</b>	AKTU	11.0	11.7	130.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
12.7*	80.0	<b>D16.0.500.80 HM</b>	APXA	11.0	11.7	150.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
15.875**	40.0	<b>D16.0.625.40 HM</b>	APM8	11.0	14.875	130.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
15.875**	56.0	<b>D16.0.625.56 HM</b>	ADJ3	11.0	14.875	130.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
15.875**	80.0	<b>D16.0.625.80 HM</b>	AFSY	11.0	14.875	150.0	4.3	D M5x12 T20T	T20T	D16	<input type="radio"/>
<b>ØD = 15.875-19.05mm</b>											
19.05***	25.0	<b>D18.0.750.25 ST</b>	AVW1	11.48	18.05	95.0	8.0	D M5x12 T20T	T20T	D18	<input type="radio"/>
19.05***	40.0	<b>D18.0.750.40 ST</b>	AVW2	11.48	18.05	105.0	8.0	D M5x12 T20T	T20T	D18	<input type="radio"/>
15.875**	42.0	<b>D18.0.625.42 HM</b>	AVW3	11.48	14.875	100.0	6.0	D M5x12 T20T	T20T	D18	<input type="radio"/>
15.875**	60.0	<b>D18.0.625.60 HM</b>	AVW4	11.48	14.875	130.0	6.0	D M5x12 T20T	T20T	D18	<input type="radio"/>
15.875**	85.0	<b>D18.0.625.85 HM</b>	AVW5	11.48	14.875	160.0	6.0	D M5x12 T20T	T20T	D18	<input type="radio"/>
19.05***	85.0	<b>D18.0.750.85 HM</b>	AVW6	11.48	18.08	160.0	6.0	D M5x12 T20T	T20T	D18	<input type="radio"/>

ST = Steel Shank HM = Carbide Shank\*

\* 1/2" \*\* 5/8" \*\*\* 3/4"

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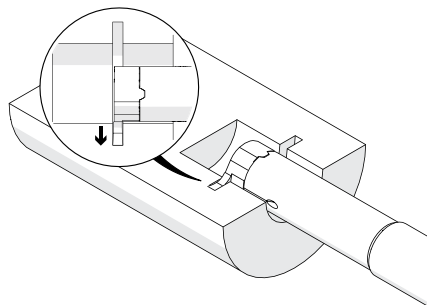
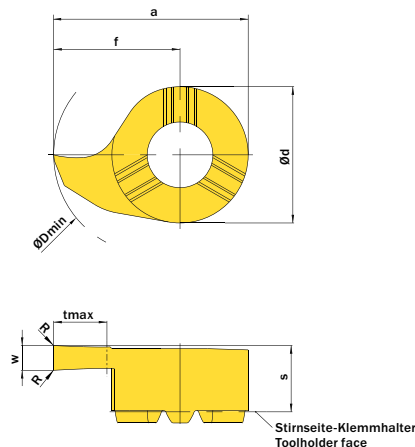
In-Stock  Left  Right  Both  Two Week Delivery

SIMTEK

METRIC SHANK												
ØD	L2	PART NUMBER	WEBCODE	b	h	L1	tmax	SCREW	SCREW DRIVER	CONNECT-CODE	STOCK	
mm	mm			mm	mm	mm						
<b>ØD = 12.0-16.0mm</b>												
12.0	21.0	D07.0012.21 ST	AU5Z	4.8	11.0	80.0	1.0	D M2x7.5 T7F	T7F	D07	○	
16.0	12.0	D07.0016.12 ST	AU6A	4.8	15.0	80.0	1.0	D M2x7.5 T7F	T7F	D07	○	
12.0	21.0	D07.0012.21 HM	AU5Y	4.8	11.0	80.0	2.0	D M2x7.5 T7F	T7F	D07	○	
12.0	30.0	D07.0012.30 HM	AU50	4.8	11.0	90.0	2.0	D M2x7.5 T7F	T7F	D07	○	
12.0	42.0	D07.0012.42 HM	AU51	4.8	11.0	100.0	2.0	D M2x7.5 T7F	T7F	D07	○	
<b>ØD = 12.0-16.0mm</b>												
12.0	21.0	D08.0012.21 ST	AKHT	6.0	11.0	80.0	1.0	D M2.6x8 T8F	T8F	D08	○	
16.0	12.0	D08.0016.12 ST	AH2A	6.0	15.0	80.0	1.0	D M2.6x8 T8F	T8F	D08	○	
12.0	21.0	D08.0012.21 HM	AF03	6.0	11.5	80.0	1.0	D M2.6x8 T8F	T8F	D08	○	
12.0	30.0	D08.0012.30 HM	AB7V	6.0	11.5	90.0	1.0	D M2.6x8 T8F	T8F	D08	○	
12.0	42.0	D08.0012.42 HM	AAVA	6.0	11.5	100.0	1.0	D M2.6x8 T8F	T8F	D08	○	
12.0	50.0	D08.0012.50 HM	AA9E	6.0	11.5	115.0	1.0	D M2.6x8 T8F	T8F	D08	○	
<b>ØD = 12.0-16.0mm</b>												
16.0	14.0	D09.0016.14 ST	AWFE	4.8	15.0	95.0	3.0	D M2.6x8 T8F	T8F	D09	○	
12.0	22.0	D09.0012.22 HM	AWFD	6.6	11.0	90.0	3.0	D M2.6x8 T8F	T8F	D09	○	
12.0	30.0	D09.0012.30 HM	AWFC	6.6	11.0	98.0	3.0	D M2.6x8 T8F	T8F	D09	○	
12.0	42.0	D09.0012.42 HM	AWFB	6.6	11.0	110.0	3.0	D M2.6x8 T8F	T8F	D09	○	
12.0	56.0	D09.0012.56 HM	AWFA	6.6	11.0	122.0	3.0	D M2.6x8 T8F	T8F	D09	○	
<b>ØD = 12.0-16.0mm</b>												
16.0	16.0	D10.0016.16 ST	ACCJ	7.4	15.0	97.0	3.4	D M3x9 T9F	T9F	D10	●	
12.0	24.0	D10.0012.24 HM	AKMV	7.4	11.0	92.0	3.4	D M3x9 T9F	T9F	D10	○	
12.0	32.0	D10.0012.32 HM	AJJ7	7.4	11.0	100.0	3.4	D M3x9 T9F	T9F	D10	○	
12.0	48.0	D10.0012.48 HM	AHP2	7.4	11.0	115.0	3.4	D M3x9 T9F	T9F	D10	○	
12.0	64.0	D10.0012.64 HM	ACB2	7.4	11.0	130.0	3.4	D M3x9 T9F	T9F	D10	●	
<b>ØD = 12.0-16.0mm</b>												
12.0	29.0	D11.0012.29 ST	AAV0	8.0	11.0	95.0	2.3	D M3.5x10 T10F	T10F	D11	○	
16.0	16.0	D11.0016.16 ST	ANMK	8.0	15.0	97.0	2.3	D M3.5x10 T10F	T10F	D11	○	
12.0	29.0	D11.0012.29 HM	AHJ1	8.0	11.0	95.0	2.3	D M3.5x10 T10F	T10F	D11	○	
12.0	42.0	D11.0012.42 HM	AG9S	8.0	11.0	110.0	2.3	D M3.5x10 T10F	T10F	D11	○	
12.0	56.0	D11.0012.56 HM	AHEF	8.0	11.0	120.0	2.3	D M3.5x10 T10F	T10F	D11	○	
12.0	64.0	D11.0012.64 HM	ABD8	8.0	11.0	130.0	2.3	D M3.5x10 T10F	T10F	D11	○	
<b>ØD = 12.0-16.0mm</b>												
16.0	20.0	D14.0016.20 ST	ANP6	9.5	15.0	100.0	6.5	D M4x12 T15F	T15F	D14	●	
12.0	34.0	D14.0012.34 HM	AMQ7	9.5	11.0	100.0	6.5	D M4x12 T15F	T15F	D14	○	
12.0	45.0	D14.0012.45 HM	AMYJ	9.5	11.0	110.0	6.5	D M4x12 T15F	T15F	D14	○	
12.0	64.0	D14.0012.64 HM	AEQA	9.5	11.0	130.0	6.5	D M4x12 T15F	T15F	D14	○	
16.0	34.0	D14.0016.34 HM	AFP8	9.5	15.0	100.0	6.5	D M4x12 T15F	T15F	D14	○	
16.0	45.0	D14.0016.45 HM	AA1H	9.5	15.0	110.0	6.5	D M4x12 T15F	T15F	D14	○	
16.0	64.0	D14.0016.64 HM	AB99	9.5	15.0	130.0	6.5	D M4x12 T15F	T15F	D14	○	
16.0	75.0	D14.0016.75 HM	AFD1	9.5	15.0	140.0	6.5	D M4x12 T15F	T15F	D14	○	
<b>ØD = 12.0-16.0mm</b>												
12.0	40.0	D16.0012.40 HM	AESE	11.0	11.0	130.0	4.3	D M5x12 T20T	T20T	D16	○	
12.0	56.0	D16.0012.56 HM	ABY7	11.0	11.0	130.0	4.3	D M5x12 T20T	T20T	D16	○	
12.0	80.0	D16.0012.80 HM	AAAX	11.0	11.0	150.0	4.3	D M5x12 T20T	T20T	D16	○	
16.0	40.0	D16.0016.40 HM	ACA6	11.0	15.0	130.0	4.3	D M5x12 T20T	T20T	D16	○	
16.0	56.0	D16.0016.56 HM	ABJH	11.0	15.0	130.0	4.3	D M5x12 T20T	T20T	D16	●	
16.0	80.0	D16.0016.80 HM	AEF9	11.0	15.0	150.0	4.3	D M5x12 T20T	T20T	D16	○	
<b>ØD = 16.0-20.0mm</b>												
20.0	25.0	D18.0020.25 ST	AAWH	11.5	19.0	95.0	8.0	D M5x12 T20T	T20T	D18	●	
20.0	40.0	D18.0020.40 ST	APH3	11.5	19.0	105.0	8.0	D M5x12 T20T	T20T	D18	○	
16.0	42.0	D18.0016.42 HM	AEP1	11.5	15.0	100.0	6.0	D M5x12 T20T	T20T	D18	○	
16.0	60.0	D18.0016.60 HM	AJFC	11.5	15.0	130.0	6.0	D M5x12 T20T	T20T	D18	○	
16.0	85.0	D18.0016.85 HM	AF5G	11.5	15.0	160.0	6.0	D M5x12 T20T	T20T	D18	○	
20.0	85.0	D18.0020.85 HM	AG1A	11.5	19.0	160.0	8.0	D M5x12 T20T	T20T	D18	○	

ST = Steel Shank      HM = Carbide Shank

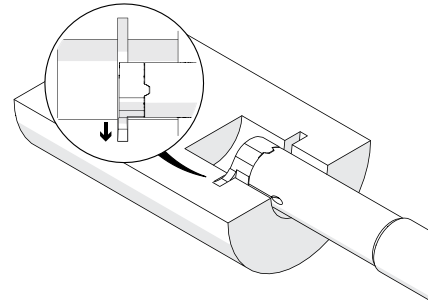
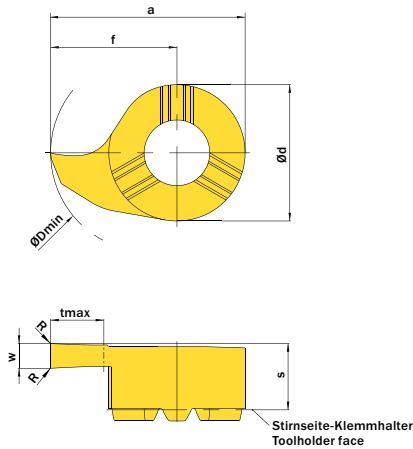
In-Stock  Left  Right  Both  Two Week Delivery



SIMTEK

Abbildung zeigt / Drawing shows: D16.0200.00 G R

ØDmin	K	K2	f	R	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	S	tmax	CONNECT-CODE	STOCK
mm			mm	mm	mm			mm	mm	mm	mm		
<b>ØDmin = 7.0mm</b>													
7.0	20°	8°	4.15	0.1	D07.1841.01 YR/L	R ANWE L	AXA8 G	6.55	4.8	3.7	1.0	D07	<input type="checkbox"/>
7.0	20°	8°	4.15	0.2	D07.1841.02 YR/L	R AJZ7 L	AXA9 G	6.55	4.8	3.7	1.0	D07	<input type="checkbox"/>
<b>ØDmin = 7.8mm</b>													
7.8	18°	8°	4.65	0.05	D08.1846.005 YR/L	R AS56 L	AS55 G	7.65	6.0	3.5	1.0	D08	<input type="checkbox"/>
7.8	18°	8°	4.65	0.2	D08.1846.02 YR/L	R AMM3 L	AC6Z G	7.65	6.0	3.5	1.0	D08	<input type="checkbox"/>
7.8	20°	20°	4.65	0.2	D08.2046.02 YR/L	R AG7V L	AFEB G	7.65	6.0	3.5	1.0	D08	<input type="checkbox"/>
<b>ØDmin = 9.0mm</b>													
9.0	18°	8°	5.5	0.2	D09.1855.02.09 YR/L	R AWGU L	AWH7 G	8.6	6.2	3.6	1.0	D09	<input type="checkbox"/>
9.0	20°	20°	5.5	0.2	D09.2055.02.09 YR/L	R AWGV L	AWH8 G	8.6	6.2	3.6	1.0	D09	<input type="checkbox"/>
<b>ØDmin = 9.8mm</b>													
9.8	18°	8°	5.5	0.2	D11.1855.02 YR/L	R AC65 L	AHXM G	9.5	8.0	4.2	1.0	D11	<input type="checkbox"/>
<b>ØDmin = 10.0mm</b>													
10.0	18°	8°	5.6	0.2	D10.1856.02.10 YR/L	R AN4S L	AGF7 G	9.1	7.0	3.9	1.5	D10	<input type="checkbox"/>
10.0	20°	20°	5.6	0.2	D10.2056.02.10 YR/L	R AD7E L	AB48 G	9.1	7.0	3.9	1.5	D10	<input type="checkbox"/>
<b>ØDmin = 11.0mm</b>													
11.0	18°	8°	6.6	0.2	D10.1866.02.11 YR/L	R AFCG L	AW40 G	9.1	7.0	3.9	1.5	D10	<input type="checkbox"/>
11.0	18°	8°	6.7	0.2	D11.1867.02 YR/L	R ABXG L	AF60 G	10.7	8.0	4.2	1.8	D11	<input type="checkbox"/>
11.0	20°	20°	6.7	0.2	D11.2067.02 YR/L	R APSF L	AKP5 G	10.7	8.0	4.2	2.0	D11	<input type="checkbox"/>
<b>ØDmin = 13.8mm</b>													
13.8	18°	8°	8.7	0.2	D14.1887.02 YR/L	R AN1M L	AGJY G	13.2	9.0	5.3	2.0	D14	<input type="checkbox"/>
<b>ØDmin = 14.0mm</b>													
14.0	20°	20°	8.7	0.2	D14.2087.02 YR/L	R AG2U L	AGQC G	13.2	9.0	5.3	2.5	D14	<input type="checkbox"/>
<b>ØDh = 15.5mm</b>													
15.5	18°	8°	9.7	0.2	D16.1897.02 YR/L	R AHEA L	ADNX G	15.2	11.0	5.4	3.0	D16	<input type="checkbox"/>



In-Stock  Left  Right  Both  Two Week Delivery

Abbildung zeigt / Drawing shows: D16.0200.00 G R

W	NOMINAL GROOVE WIDTH	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	R	S	tmax	CONNECT-CODE	STOCK	
mm	mm	mm				mm	mm	mm	mm	mm	mm			
<b>ØDmin = 8.0mm</b>														
0.73	0.7	8.0	D08.0070.00 ZR/L	R AB9U	L ABDZ	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
0.83	0.8	8.0	D08.0080.00 ZR/L	R AKJ6	L AMGG	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
0.93	0.9	8.0	D08.0090.00 ZR/L	R AN56	L AMYN	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
1.0	-	8.0	D08.0100.00 GR/L	R AKUA	L AGCE	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
1.2	1.1	8.0	D08.0110.00 GR/L	R ABPM	L ANT9	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
1.4	1.3	8.0	D08.0130.00 GR/L	R AMN4	L AG33	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
1.5	-	8.0	D08.0150.00 GR/L	R AK83	L AFKC	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
1.7	1.6	8.0	D08.0160.00 GR/L	R ACV2	L AGGD	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
2.0	-	8.0	D08.0200.00 GR/L	R AJB6	L ANSM	G	7.8	6.0	4.8	-	3.3	1.0	D08	○
<b>ØDmin = 9.0mm</b>														
0.73	0.7	9.0	D09.0070.00.09 GR/L	R AWFx	L AWhA	G	8.6	6.2	5.5	-	3.6	1.2	D09	○
0.83	0.8	9.0	D09.0080.00.09 GR/L	R AWFw	L AWG9	G	8.6	6.2	5.5	-	3.6	1.3	D09	○
0.93	0.9	9.0	D09.0090.00.09 GR/L	R AWFv	L AWG8	G	8.6	6.2	5.5	-	3.6	1.5	D09	○
1.0	-	9.0	D09.0100.00.09 GR/L	R AWFu	L AWG7	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
1.2	1.1	9.0	D09.0110.00.09 GR/L	R AWFt	L AWG6	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
1.4	1.3	9.0	D09.0130.00.09 GR/L	R AWFs	L AWG5	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
1.5	-	9.0	D09.0150.00.09 GR/L	R AWFq	L AWG4	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
1.7	1.6	9.0	D09.0160.00.09 GR/L	R AWFp	L AWG3	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
2.0	-	9.0	D09.0200.00.09 GR/L	R AWFn	L AWG2	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
2.5	-	9.0	D09.0250.00.09 GR/L	R AWFm	L AWG1	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
3.0	-	9.0	D09.0300.00.09 GR/L	R AWFk	L AWG0	G	8.6	6.2	5.5	-	3.6	1.8	D09	○
<b>ØDmin = 10.0-12.0mm</b>														
0.73	0.7	10.0	D10.0070.00.10 GR/L	R AFSU	L AAB2	G	9.3	7.0	5.8	-	3.9	1.2	D10	○
0.83	0.8	10.0	D10.0080.00.10 GR/L	R AHQS	L AGM7	G	9.3	7.0	5.8	-	3.9	1.3	D10	○
0.93	0.9	10.0	D10.0090.00.10 GR/L	R AMHS	L AG18	G	9.3	7.0	5.8	-	3.9	1.5	D10	○
1.0	-	10.0	D10.0100.00.10 GR/L	R AH7V	L APDY	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
1.2	1.1	10.0	D10.0110.00.10 GR/L	R AC8U	L ADN2	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
1.4	1.3	10.0	D10.0130.00.10 GR/L	R ANFZ	L AG0G	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
1.5	-	10.0	D10.0150.00.10 GR/L	R AG47	L AG0K	G	9.3	7.0	5.8	-	3.9	1.8	D10	●
1.7	1.6	10.0	D10.0160.00.10 GR/L	R ANVJ	L AJV0	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
2.0	-	10.0	D10.0200.00.10 GR/L	R AAGC	L APGT	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
2.5	-	10.0	D10.0250.00.10 GR/L	R AKZ9	L AH47	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
3.0	-	10.0	D10.0300.00.10 GR/L	R AJ38	L AKF5	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
3.18	-	10.0	D10.0318.00.10 GR/L	R AF7U	L ABBT	G	9.3	7.0	5.8	-	3.9	1.8	D10	○
1.0	-	11.0	D10.0100.00.11 GR/L	R AM4Q	L AFYT	CBN. G	10.3	7.0	6.8	-	3.9	2.8	D10	○
1.5	-	11.0	D10.0150.00.11 GR/L	R AD1W	L AJNG	G	10.3	7.0	6.8	-	3.9	2.8	D10	○
2.0	-	11.0	D10.0200.00.11 GR/L	R ANQ9	L AAD7	G	10.3	7.0	6.8	-	3.9	2.8	D10	○
2.5	-	11.0	D10.0250.00.11 GR/L	R AFX1	L AM7Q	G	10.3	7.0	6.8	-	3.9	2.8	D10	●
3.0	-	11.0	D10.0300.00.11 GR/L	R AAANE	L AHDC	G	10.3	7.0	6.8	-	3.9	2.8	D10	○
3.18	-	11.0	D10.0318.00.11 GR/L	R AGWZ	L AM7D	G	10.3	7.0	6.8	-	3.9	2.8	D10	○
1.0	-	12.0	D10.0100.00.12 GR/L	R AJBX	L AMJU	G	10.9	7.0	7.4	-	3.9	3.4	D10	●
1.5	-	12.0	D10.0150.00.12 GR/L	R ABE6	L AGJW	G	10.9	7.0	7.4	-	3.9	3.4	D10	○
2.0	-	12.0	D10.0200.00.12 GR/L	R AHWQ	L AETB	G	10.9	7.0	7.4	-	3.9	3.4	D10	●

# GROOVING - DX

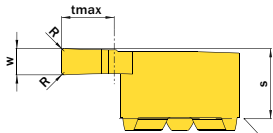
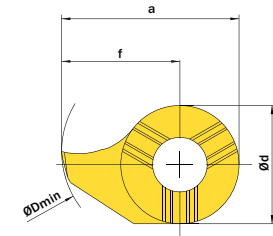


In-Stock  Left   
 Right   
 Both  Two Week Delivery

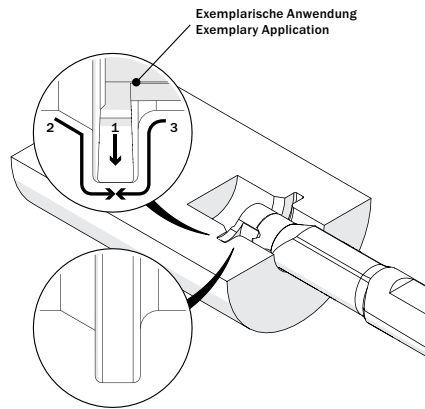
W	NOMINAL GROOVE WIDTH	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	R	S	tmax	CONNECT-CODE	STOCK	
mm	mm	mm				mm	mm	mm	mm	mm	mm			
<b>ØDmin = 11.0mm</b>														
0.73	0.7	11.0	D11.0070.00 ZR/L	R AP1P	L APPC	G	10.7	8.0	6.7	-	4.2	1.2	D11	○
0.83	0.8	11.0	D11.0080.00 ZR/L	R AJWD	L AAC9	G	10.7	8.0	6.7	-	4.2	1.3	D11	○
0.93	0.9	11.0	D11.0090.00 ZR/L	R AJX5	L AFEU	G	10.7	8.0	6.7	-	4.2	1.5	D11	○
1.0	-	11.0	D11.0100.00 GR/L	R AF27	L AA5C	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
1.2	1.1	11.0	D11.0110.00 GR/L	R AC49	L APP0	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
1.4	1.3	11.0	D11.0130.00 GR/L	R ABF3	L ABS9	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
1.5	-	11.0	D11.0150.00 GR/L	R ADEV	L AMGD	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
1.7	1.6	11.0	D11.0160.00 GR/L	R AK4Q	L AJUG	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
2.0	-	11.0	D11.0200.00 GR/L	R AKEC	L AP30	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
2.38	-	11.0	D11.0238.00 GR/L	R ANH9	L AHA0	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
2.5	-	11.0	D11.0250.00 GR/L	R AB6U	L AM90	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
3.0	-	11.0	D11.0300.00 GR/L	R AP3N	L AAAP	G	10.7	8.0	6.7	-	4.2	2.3	D11	○
<b>ØDmin = 14.0-17mm</b>														
0.73	0.7	14.0	D14.0070.00 ZR/L	R AB83	L AMAH	G	13.5	9.0	9.0	-	5.2	1.2	D14	●
0.78	0.78	14.0	D14.0078.00 ZR/L	R AFD3	L AJ0C	G	13.5	9.0	9.0	-	5.2	1.3	D14	○
0.83	0.8	14.0	D14.0080.00 ZR/L	R AF8T	L AMXS	G	13.5	9.0	9.0	-	5.2	1.3	D14	●
0.86	0.86	14.0	D14.0086.00 ZR/L	R AJV2	L ADKX	G	13.5	9.0	9.0	-	5.2	1.5	D14	○
0.93	0.9	14.0	D14.0090.00 ZR/L	R AEAM	L ADZA	G	13.5	9.0	9.0	-	5.2	1.5	D14	●
1.0	1.0	14.0	D14.0100.00 ZR/L	R APFC	L AMY9	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
1.2	1.1	14.0	D14.0110.00 GR/L	R AK84	L AM81	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
1.4	1.3	14.0	D14.0130.00 GR/L	R ADGC	L AAFB	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
1.5	-	14.0	D14.0150.00 GR/L	R AK6Q	L AAJG	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
1.7	1.6	14.0	D14.0160.00 GR/L	R AJTA	L AC77	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
2.0	-	14.0	D14.0200.00 GR/L	R AG8N	L AMW3	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
2.5	-	14.0	D14.0250.00 GR/L	R AHSS	L AA56	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
3.0	-	14.0	D14.0300.00 GR/L	R AFFU	L AHHA	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
3.18	-	14.0	D14.0318.00 GR/L	R AKKN	L APJD	G	13.5	9.0	9.0	-	5.2	4.0	D14	●
1.5	-	16.0	D14.0150.00.16 GR/L	R ANA2	L AG4U	G	15.0	9.0	10.5	-	5.2	5.5	D14	●
2.0	-	16.0	D14.0200.00.16 GR/L	R AAV5	L AKC6	G	15.0	9.0	10.5	-	5.2	5.5	D14	●
2.5	-	16.0	D14.0250.00.16 GR/L	R AN8C	L AKHJ	G	15.0	9.0	10.5	-	5.2	5.5	D14	●
3.0	-	16.0	D14.0300.00.16 GR/L	R ANWY	L ABDA	G	15.0	9.0	10.5	-	5.2	5.5	D14	●
1.5	-	17.0	D14.0150.00.17 GR/L	R AJDY	L APPU	G	16.0	9.0	11.5	-	5.2	6.5	D14	●
2.0	-	17.0	D14.0200.00.17 GR/L	R AB9C	L AH3A	G	16.0	9.0	11.5	-	5.2	6.5	D14	●
2.5	-	17.0	D14.0250.00.17 GR/L	R ANU2	L AFBS	G	16.0	9.0	11.5	-	5.2	6.5	D14	●
3.0	-	17.0	D14.0300.00.17 GR/L	R AATP	L AHW1	G	16.0	9.0	11.5	-	5.2	6.5	D14	○
<b>ØDmin = 16.0mm</b>														
0.73	0.7	16.0	D16.0070.00 ZR/L	R AF7C	L AN2X	G	15.7	11.0	10.2	-	5.4	1.2	D16	○
0.83	0.8	16.0	D16.0080.00 ZR/L	R AATC	L AFUU	G	15.7	11.0	10.2	-	5.4	1.3	D16	○
0.93	0.9	16.0	D16.0090.00 ZR/L	R ADHV	L ABYM	G	15.7	11.0	10.2	-	5.4	1.5	D16	○
1.2	1.1	16.0	D16.0110.00 GR/L	R AKCH	L AGF2	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
1.4	1.3	16.0	D16.0130.00 GR/L	R AEQ6	L ADJ0	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
1.5	-	16.0	D16.0150.00 GR/L	R AEX2	L ACK6	G	15.7	11.0	10.2	-	5.4	4.3	D16	●
1.7	1.6	16.0	D16.0160.00 GR/L	R ANNC	L AGBT	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
2.0	-	16.0	D16.0200.00 GR/L	R ACXX	L APFT	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
2.5	-	16.0	D16.0250.00 GR/L	R AAMN	L AA16	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
3.0	-	16.0	D16.0300.00 GR/L	R AHSW	L AHXD	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
3.5	-	16.0	D16.0350.00 GR/L	R ADH9	L AFEH	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
4.0	-	16.0	D16.0400.00 GR/L	R ACJ0	L AE9X	G	15.7	11.0	10.2	-	5.4	4.3	D16	○
<b>ØDmin = 18.0-20.0mm</b>														
1.5	-	18.0	D18.0150.00.18 GR/L	R AKZ7	L AM2H	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
2.0	-	18.0	D18.0200.00.18 GR/L	R AJ4W	L AJFJ	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
2.5	-	18.0	D18.0250.00.18 GR/L	R ADDT	L AEK0	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
3.0	-	18.0	D18.0300.00.18 GR/L	R AM20	L ANNX	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
3.18	-	18.0	D18.0318.00.18 GR/L	R AVVC	L AVWD	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
3.5	-	18.0	D18.0350.00.18 GR/L	R AGY9	L ACQ7	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
4.0	-	18.0	D18.0400.00.18 GR/L	R AC7M	L AAVV	G	17.5	11.0	12.0	-	5.6	6.0	D18	○
1.5	-	20.0	D18.0150.00.20 GR/L	R AMAQ	L AB14	G	19.5	11.0	14.0	-	5.6	8.0	D18	○
2.0	-	20.0	D18.0200.00.20 GR/L	R AM2K	L AMM9	G	19.5	11.0	14.0	-	5.6	8.0	D18	○
2.5	-	20.0	D18.0250.00.20 GR/L	R ADCV	L AABA	G	19.5	11.0	14.0	-	5.6	8.0	D18	○
3.0	-	20.0	D18.0300.00.20 GR/L	R AF2Q	L AEJG	G	19.5	11.0	14.0	-	5.6	8.0	D18	○
3.5	-	20.0	D18.0350.00.20 GR/L	R AJSF	L AEH4	G	19.5	11.0	14.0	-	5.6	8.0	D18	○
4.0	-	20.0	D18.0400.00.20 GR/L	R AMJZ	L AEAS	G	19.5	11.0	14.0	-	5.6	8.0	D18	○

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In-Stock  Left  Right  Both  Two Week Delivery



Stirnseite Klemmhalter  
Toolholder face



Exemplarische Anwendung  
Exemplary Application

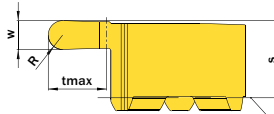
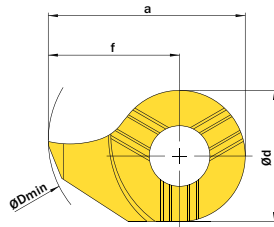
W	R	PART NUMBER	WEBCODE	CUTTING GRADE GROUP		a	Ød	ØDmin	f	S	tmax	CONNECT-CODE	STOCK
mm	mm					mm	mm	mm	mm	mm	mm		
<b>ØDmin = 7.8mm</b>													
1.5	0.2	D07.0150.02.08 NR/L	R AWYH	L AXA7	G	7.6	4.8	7.8	5.2	3.7	2.0	D07	○
<b>ØDmin = 8.0mm</b>													
1.5	0.2	D08.0150.02 NR/L	R AECN	L AGPE	G	7.8	6.0	8.0	4.8	3.3	1.0	D08	○
2.0	0.2	D08.0200.02 NR/L	R AMEP	L AC18	G	7.8	6.0	8.0	4.8	3.3	1.0	D08	○
<b>ØDmin = 9.0-10.0mm</b>													
1.5	0.2	D09.0150.02.09 NR/L	R AWF5	L AWHJ	G	8.6	6.2	9.0	5.5	3.6	1.8	D09	○
2.0	0.2	D09.0200.02.09 NR/L	R AWF4	L AWHH	G	8.6	6.2	9.0	5.5	3.6	1.8	D09	○
1.5	0.2	D09.0150.02.10 NR/L	R AWF3	L AWHG	G	9.6	6.2	10.0	6.5	3.6	2.8	D09	○
2.0	0.2	D09.0200.02.10 NR/L	R AWF2	L AWHF	G	9.6	6.2	10.0	6.5	3.6	2.8	D09	○
<b>ØDmin = 10.0-12.0mm</b>													
1.5	0.2	D10.0150.02.10 NR/L	R ADUV	L AECA	G	9.3	7.0	10.0	5.8	3.9	1.8	D10	○
2.0	0.2	D10.0200.02.10 NR/L	R AFBK	L AE0M	G	9.3	7.0	10.0	5.8	3.9	1.8	D10	○
1.5	0.2	D10.0150.02.11 NR/L	R AC7X	L AFDW	G	10.3	7.0	11.0	6.8	3.9	2.8	D10	○
2.0	0.2	D10.0200.02.11 NR/L	R AFDH	L AFDV	G	10.3	7.0	11.0	6.8	3.9	2.8	D10	○
1.5	0.2	D10.0150.02.12 NR/L	R AKG7	L AHN7	G	10.9	7.0	12.0	7.4	3.9	3.4	D10	○
2.0	0.2	D10.0200.02.12 NR/L	R ANQ8	L APHA	G	10.9	7.0	12.0	7.4	3.9	3.4	D10	○
<b>ØDmin = 11.0mm</b>													
1.0	0.2	D11.0100.02 NR/L	R AKQH	L AM70	G	10.7	8.0	11.0	6.7	4.2	2.3	D11	○
1.5	0.2	D11.0150.02 NR/L	R AJCU	L AHWW	G	10.7	8.0	11.0	6.7	4.2	2.3	D11	○
2.0	0.2	D11.0200.02 NR/L	R AN5N	L ANG5	G	10.7	8.0	11.0	6.7	4.2	2.3	D11	○
<b>ØDmin = 14.0-17.0mm</b>													
1.5	0.2	D14.0150.02 NR/L	R AAHD	L ABEJ	G	13.5	9.0	14.0	9.0	5.3	4.0	D14	○
1.57	0.2	D14.0157.02 NR/L	R AMQ3	L ABFX	G	13.5	9.0	14.0	9.0	5.3	4.0	D14	○
2.0	0.2	D14.0200.02 NR/L	R AC2N	L APKA	G	13.5	9.0	14.0	9.0	5.3	4.0	D14	○
2.5	0.2	D14.0250.02 NR/L	R AXZA	L AXZB	G	13.5	9.0	14.0	9.0	5.3	4.0	D14	○
3.18	0.2	D14.0318.02 NR/L	R AKAH	L AK9V	G	13.5	9.0	14.0	9.0	5.3	4.0	D14	○
1.5	0.2	D14.0150.02.16 NR/L	R AFOF	L AD21	G	15.0	9.0	16.0	10.5	5.2	5.5	D14	○
2.0	0.2	D14.0200.02.16 NR/L	R AMEQ	L ACFH	G	15.0	9.0	16.0	10.5	5.2	5.5	D14	○
2.5	0.2	D14.0250.02.16 NR/L	R APQF	L AN8D	G	15.0	9.0	16.0	10.5	5.2	5.5	D14	○
3.0	0.2	D14.0300.02.16 NR/L	R AD8X	L ANVS	G	15.0	9.0	16.0	10.5	5.2	5.5	D14	○
1.5	0.2	D14.0150.02.17 NR/L	R AKT0	L AF42	G	16.0	9.0	17.0	11.5	5.2	6.5	D14	○
2.0	0.2	D14.0200.02.17 NR/L	R ACCZ	L AFWA	G	16.0	9.0	17.0	11.5	5.2	6.5	D14	○
2.5	0.2	D14.0250.02.17 NR/L	R ADHU	L AKNH	G	16.0	9.0	17.0	11.5	5.2	6.5	D14	○
3.0	0.2	D14.0300.02.17 NR/L	R AEWX	L AFYV	G	16.0	9.0	17.0	11.5	5.2	6.5	D14	○
<b>ØDmin = 16.0mm</b>													
2.0	0.2	D16.0200.02 NR/L	R AHDV	L ANM7	G	15.7	11.0	16.0	10.2	5.4	4.3	D16	○
<b>ØDmin = 18.0-20.0mm</b>													
2.0	0.2	D18.0200.02.18 NR/L	R AVSQ	L AVSS	G	17.5	11.0	18.0	14.0	5.6	6.0	D18	○
1.5	0.2	D18.0150.02.20 NR/L	R AAX4	L AN0H	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○
2.0	0.2	D18.0200.02.20 NR/L	R ACXQ	L AAWK	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○
2.5	0.2	D18.0250.02.20 NR/L	R AVVX	L AVVY	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○
3.0	0.2	D18.0300.02.20 NR/L	R AVV6	L AVV7	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○
3.18	0.2	D18.0318.02.20 NR/L	R AVV8	L AVV9	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○
4.0	0.2	D18.0400.02.20 NR/L	R AVWA	L AVWB	G	19.5	11.0	20.0	14.0	5.6	8.0	D18	○

# GROOVING (RADIUS) - DX

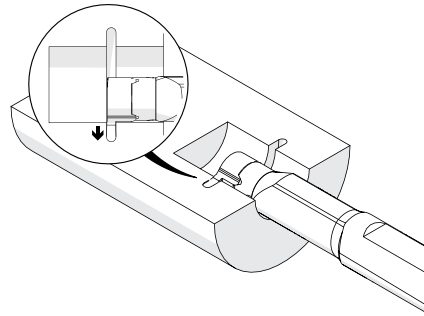
**SIMTEK**

**simturn**

In-Stock  Left  Right  Both  Two Week Delivery



Stirnseite Klemmhalter  
Toolholder face

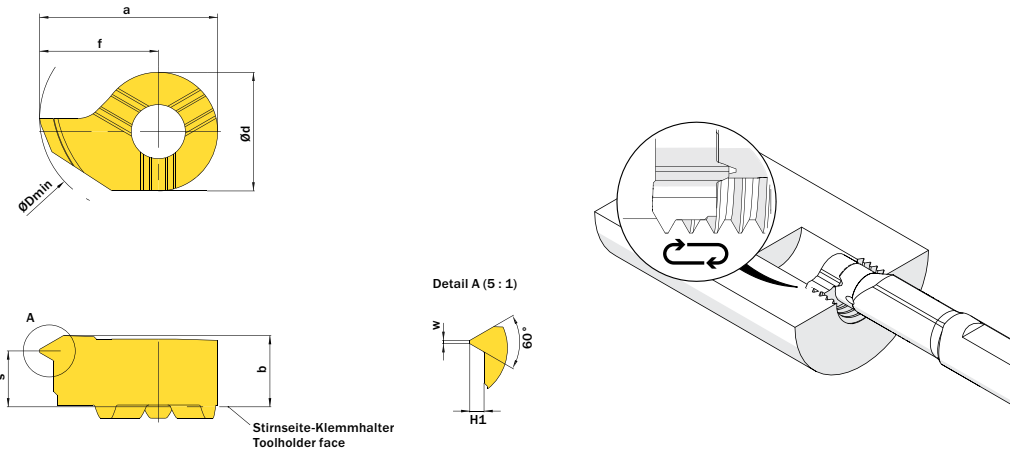


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R	W	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	ØDmin	S	f	tmax	CONNECT-CODE	STOCK
mm	mm				mm	mm	mm	mm	mm	mm		
<b>ØDmin = 8.0mm</b>												
0.4	0.8	D08.0004.08 VR/L	R AAP2 L AE8B	G	7.8	6.0	8.0	3.3	4.8	1.0	D08	<input type="radio"/>
0.6	1.2	D08.0006.12 VR/L	R AHUE L AF16	G	7.8	6.0	8.0	3.3	4.8	1.0	D08	<input type="radio"/>
0.9	1.8	D08.0009.18 VR/L	R AMH0 L APZV	G	7.8	6.0	8.0	3.3	4.8	1.0	D08	<input type="radio"/>
1.0	2.0	D08.0010.20 VR/L	R ADYE L AEDC	G	7.8	6.0	8.0	3.3	4.8	1.0	D08	<input type="radio"/>
<b>ØDmin = 9.0mm</b>												
0.4	0.8	D09.0004.08.09 VR/L	R AWFF L AWGW	G	8.6	6.2	9.0	3.5	5.5	1.6	D09	<input type="radio"/>
0.6	1.2	D09.0006.12.09 VR/L	R AWFG L AWGX	G	8.6	6.2	9.0	3.5	5.5	1.6	D09	<input type="radio"/>
0.9	1.8	D09.0009.18.09 VR/L	R AWFH L AWGY	G	8.6	6.2	9.0	3.5	5.5	1.6	D09	<input type="radio"/>
1.0	2.0	D09.0010.20.09 VR/L	R AWFJ L AWGZ	G	8.6	6.2	9.0	3.5	5.5	1.6	D09	<input type="radio"/>
<b>ØDmin = 10.0mm</b>												
0.4	0.8	D10.0004.08.10 VR/L	R AD9G L AECX	G	9.3	7.0	10.0	3.9	5.8	1.8	D10	<input type="radio"/>
0.6	1.2	D10.0006.12.10 VR/L	R ABMC L ANBF	G	9.3	7.0	10.0	3.9	5.8	1.8	D10	<input type="radio"/>
0.9	1.8	D10.0009.18.10 VR/L	R AC50 L AFQ8	G	9.3	7.0	10.0	3.9	5.8	1.8	D10	<input type="radio"/>
1.0	2.0	D10.0010.20.10 VR/L	R AAK8 L ABVA	G	9.3	7.0	10.0	3.9	5.8	1.8	D10	<input type="radio"/>
<b>ØDmin = 11.0mm</b>												
0.4	0.8	D11.0004.08 VR/L	R AJS6 L AGJD	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
0.6	1.2	D11.0006.12 VR/L	R AH9B L AE6K	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
0.8	1.6	D11.0008.16 VR/L	R AMJP L AP28	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
0.9	1.8	D11.0009.18 VR/L	R APTS L AA18	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
1.0	2.0	D11.0010.20 VR/L	R AC6N L ABQC	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
1.2	2.4	D11.0012.24 VR/L	R AF3Y L AKC8	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
1.5	3.0	D11.0015.30 VR/L	R AFGU L AKX2	G	10.7	8.0	11.0	4.2	6.7	2.3	D11	<input type="radio"/>
<b>ØDmin = 14.0mm</b>												
0.4	0.8	D14.0004.08 VR/L	R AFZD L AHT8	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input type="radio"/>
0.6	1.2	D14.0006.12 VR/L	R ADBN L AHHJ	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input type="radio"/>
0.9	1.8	D14.0009.18 VR/L	R AESX L AEGW	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input type="radio"/>
1.0	2.0	D14.0010.20 VR/L	R AGHK L AJYS	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input checked="" type="radio"/>
1.1	2.2	D14.0011.22 VR/L	R AKS8 L ANBN	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input type="radio"/>
1.5	3.0	D14.0015.30 VR/L	R AKKQ L APW7	G	13.5	9.0	14.0	5.3	9.0	4.0	D14	<input type="radio"/>
<b>ØDmin = 16.0mm</b>												
0.8	1.6	D16.0008.16 VR/L	R AFK1 L AM7T	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
0.9	1.8	D16.0009.18 VR/L	R AMCU L ABQE	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
1.0	2.0	D16.0010.20 VR/L	R AKNU L AJWC	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
1.1	2.2	D16.0011.22 VR/L	R AD51 L ABHK	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
1.2	2.4	D16.0012.24 VR/L	R AJJS L APF0	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
1.5	3.0	D16.0015.30 VR/L	R AJA7 L AE92	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input checked="" type="radio"/>
1.6	3.2	D16.0016.32 VR/L	R AGCX L AJK3	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input checked="" type="radio"/>
2.0	4.0	D16.0020.40 VR/L	R APN4 L AHYY	G	15.7	11.0	16.0	5.4	10.2	4.3	D16	<input type="radio"/>
<b>ØDmin = 18.0mm</b>												
0.9	1.8	D18.0009.18.18 VR/L	R AVD9 L AVEA	G	17.5	11.0	18.0	5.6	12.0	6.0	D18	<input type="radio"/>
1.1	2.2	D18.0011.22.18 VR/L	R AVEB L AVEC	G	17.5	11.0	18.0	5.6	12.0	6.0	D18	<input type="radio"/>
1.5	3.0	D18.0015.30.18 VR/L	R AVEE L AVED	CBN. G	17.5	11.0	18.0	5.6	12.0	6.0	D18	<input type="radio"/>
1.6	3.2	D18.0016.32.18 VR/L	R AV6T L AV6S	G	17.5	11.0	18.0	5.6	12.0	6.0	D18	<input type="radio"/>
2.0	4.0	D18.0020.40.18 VR/L	R AV6U L AV6V	G	17.5	11.0	18.0	5.6	12.0	6.0	D18	<input type="radio"/>

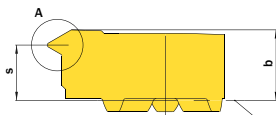
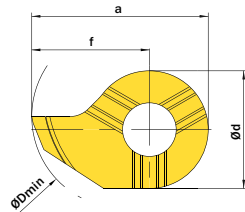
In-Stock  Left  Right  Both  Two Week Delivery

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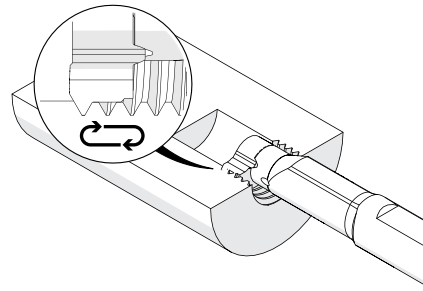
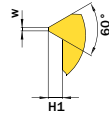
H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	ØDmin	f	S	w	CONNECT-CODE	STOCK
mm	mm				mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 9.0mm</b>													
0.27	0.5	D09.0205.02.09 MR/L	R AWGT L AWH6	G	8.6	3.55	6.2	9.0	5.5	3.25	0.06	D09	<input type="radio"/>
0.54	1.0	D09.0510.02.09 MR/L	R AWGS L AWH5	G	8.6	3.55	6.2	9.0	5.5	3.0	0.12	D09	<input type="radio"/>
0.81	1.5	D09.0815.02.09 MR/L	R AWGQ L AWH4	G	8.6	3.55	6.2	9.0	5.5	2.8	0.18	D09	<input type="radio"/>
0.95	1.75	D09.0917.02.09 MR/L	R AWGP L AWH3	G	8.6	3.55	6.2	9.0	5.5	2.7	0.2	D09	<input type="radio"/>
1.08	2.0	D09.1020.02.09 MR/L	R AWGN L AWH2	G	8.6	3.55	6.2	9.0	5.5	2.6	0.25	D09	<input type="radio"/>
1.35	2.5	D09.1325.02.09 MR/L	R AWGM L AWH1	G	8.6	3.55	6.2	9.0	5.5	2.5	0.31	D09	<input type="radio"/>
1.62	3.0	D09.1630.02.09 MR/L	R AWGK L AWH0	G	8.6	3.55	6.2	9.0	5.5	2.2	0.37	D09	<input type="radio"/>
<b>ØDmin = 10.0mm</b>													
0.27	0.5	D10.0205.02.10 MR/L	R ANVA L ADJC	G	9.3	4.0	7.0	10.0	5.8	3.4	0.06	D10	<input type="radio"/>
0.54	1.0	D10.0510.02.10 MR/L	R ANP1 L ADAV	G	9.3	4.0	7.0	10.0	5.8	3.2	0.12	D10	<input type="radio"/>
0.81	1.5	D10.0815.02.10 MR/L	R AM2E L AA2U	G	9.3	4.0	7.0	10.0	5.8	3.0	0.18	D10	<input type="radio"/>
0.95	1.75	D10.0917.02.10 MR/L	R AD6Z L ABYB	G	9.3	4.0	7.0	10.0	5.8	2.9	0.21	D10	<input type="radio"/>
1.08	2.0	D10.1020.02.10 MR/L	R AADQ L AKFM	G	9.3	4.0	7.0	10.0	5.8	2.75	0.25	D10	<input type="radio"/>
1.35	2.5	D10.1325.02.10 MR/L	R AAG5 L AMY3	G	9.3	4.0	7.0	10.0	5.8	2.55	0.31	D10	<input type="radio"/>
1.62	3.0	D10.1630.02.10 MR/L	R AJXD L AKWA	G	9.3	4.0	7.0	10.0	5.8	2.5	0.37	D10	<input type="radio"/>
<b>ØDmin = 11.0mm</b>													
0.54	1.0	D11.0510.02 MR/L	R AJ3B L AF7P	G	10.7	4.3	8.0	11.0	6.7	3.6	0.12	D11	<input type="radio"/>
0.81	1.5	D11.0815.02 MR/L	R AESU L APF7	G	10.7	4.3	8.0	11.0	6.7	3.3	0.18	D11	<input type="radio"/>
1.08	2.0	D11.1020.02 MR/L	R AF4G L ACVY	G	10.7	4.3	8.0	11.0	6.7	2.9	0.25	D11	<input type="radio"/>
1.35	2.5	D11.1325.02 MR/L	R AN9M L ACTN	G	10.7	4.3	8.0	11.0	6.7	2.95	0.31	D11	<input type="radio"/>
1.62	3.0	D11.1630.02 MR/L	R AKVC L AJZG	G	10.7	4.3	8.0	11.0	6.7	2.9	0.37	D11	<input type="radio"/>

In-Stock  Left  Right  Both  Two Week Delivery



Stirnseite-Klemmhalter  
Toolholder face

Detail A (5 : 1)

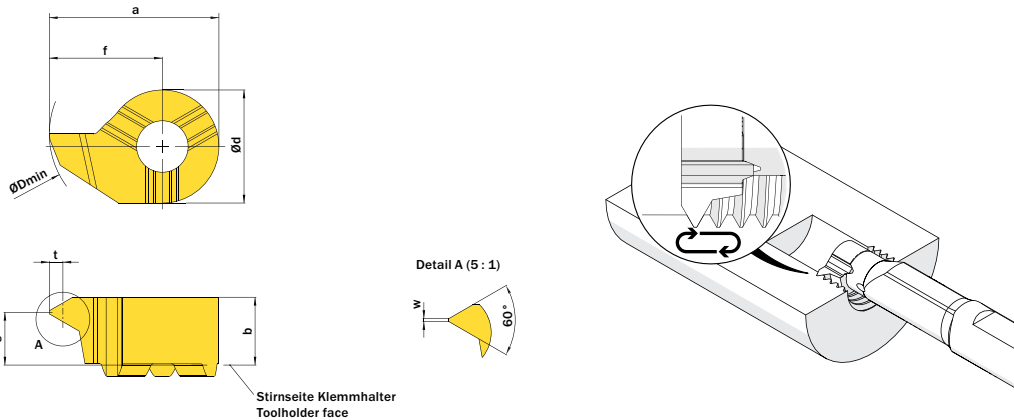


H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	ØDmin	f	S	w	CONNECT-CODE	STOCK	
mm	mm				mm	mm	mm	mm	mm	mm	mm			
<b>ØDmin = 14.0mm</b>														
0.27	0.5	D14.0205.02 MR/L	R AG11	L AAM6	G	13.5	5.4	9.0	14.0	9.0	4.8	0.06	D14	<input type="radio"/>
0.54	1.0	D14.0510.02 MR/L	R AGVA	L AN3Z	G	13.5	5.4	9.0	14.0	9.0	4.7	0.12	D14	<input type="radio"/>
0.81	1.5	D14.0815.02 MR/L	R AAPD	L AHEZ	G	13.5	5.4	9.0	14.0	9.0	4.3	0.18	D14	<input type="radio"/>
1.08	2.0	D14.1020.02 MR/L	R ABSD	L AMJS	G	13.5	5.4	9.0	14.0	9.0	4.2	0.25	D14	<input type="radio"/>
1.35	2.5	D14.1325.02 MR/L	R AFM0	L APW6	G	13.5	5.4	9.0	14.0	9.0	3.65	0.31	D14	<input type="radio"/>
<b>ØDmin = 16.0mm</b>														
0.54	1.0	D16.0510.02 MR/L	R AC07	L ACXP	G	15.7	5.5	11.0	16.0	10.2	4.8	0.12	D16	<input type="radio"/>
0.81	1.5	D16.0815.02 MR/L	R ADSQ	L AGTH	G	15.7	5.5	11.0	16.0	10.2	4.3	0.18	D16	<input type="radio"/>
1.08	2.0	D16.1020.02 MR/L	R AHC8	L ANXE	G	15.7	5.5	11.0	16.0	10.2	4.05	0.25	D16	<input type="radio"/>
1.35	2.5	D16.1325.02 MR/L	R AMW1	L AG5U	G	15.7	5.5	11.0	16.0	10.2	4.2	0.31	D16	<input type="radio"/>
1.62	3.0	D16.1630.02 MR/L	R AKHY	L AN34	G	15.7	5.5	11.0	16.0	10.2	4.0	0.37	D16	<input type="radio"/>
1.89	3.5	D16.1835.02 MR/L	R AANW	L AG41	G	15.7	5.5	11.0	16.0	10.2	3.9	0.43	D16	<input type="radio"/>
2.16	4.0	D16.2140.02 MR/L	R AD32	L AEED	G	15.7	5.5	11.0	16.0	10.2	3.6	0.5	D16	<input type="radio"/>



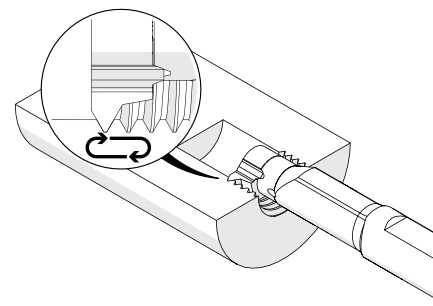
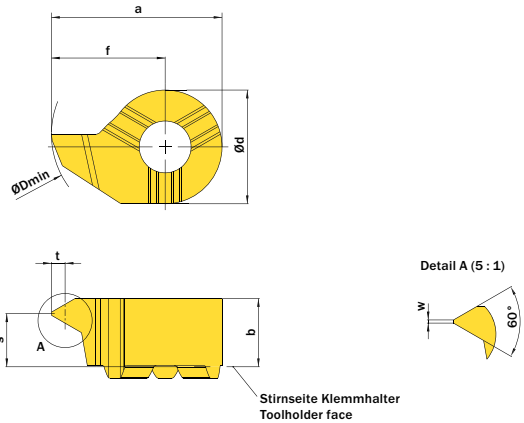
In-Stock  Left  Right  Both  Two Week Delivery

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MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	t	b	Ød	ØDmin	f	S	w	CONNECT-CODE	STOCK
mm	mm				mm	mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 7.0Mm</b>														
0.5	0.75	D07.MT05.01.07 MR/L	R AU57 L AXBC	G	6.55	0.43	3.3	4.8	7.0	4.15	2.9	0.06	D07	<input type="radio"/>
1.0	1.25	D07.MT10.01.07 MR/L	R AU59 L AXBD	G	6.2	0.7	3.3	4.8	7.0	3.8	2.7	0.12	D07	<input type="radio"/>
1.5	1.75	D07.MT15.01.07 MR/L	R AU58 L AXBE	G	6.55	0.95	3.3	4.8	7.0	4.15	2.5	0.18	D07	<input type="radio"/>
<b>ØDmin = 8.0Mm</b>														
0.5	0.75	D08.0205.01 MR/L	R ANP8 L AEEG	G	7.8	0.43	3.5	6.0	8.0	4.8	2.95	0.06	D08	<input type="radio"/>
1.0	1.25	D08.0510.01 MR/L	R AG0B L AC5F	G	7.8	0.7	3.5	6.0	8.0	4.8	2.7	0.12	D08	<input type="radio"/>
1.5	1.75	D08.0815.01 MR/L	R AB62 L ACGW	G	7.8	0.95	3.5	6.0	8.0	4.8	2.25	0.18	D08	<input type="radio"/>
<b>ØDmin = 9.0Mm</b>														
0.5	0.75	D09.0205.01.09 MR/L	R AWGG L AWHX	G	8.6	0.27	3.55	6.2	9.0	5.5	3.2	0.06	D09	<input type="radio"/>
1.0	1.25	D09.0510.01.09 MR/L	R AWGF L AWHW	G	8.6	0.54	3.55	6.2	9.0	5.5	3.0	0.12	D09	<input type="radio"/>
1.5	1.75	D09.0815.01.09 MR/L	R AWGE L AWHV	G	8.6	0.81	3.55	6.2	9.0	5.5	2.8	0.18	D09	<input type="radio"/>
1.75	2.0	D09.0917.01.09 MR/L	R AWGD L AWHU	G	8.6	0.95	3.55	6.2	9.0	5.5	2.6	0.2	D09	<input type="radio"/>
2.0	2.5	D09.1020.01.09 MR/L	R AWGC L AWHT	G	8.6	1.08	3.55	6.2	9.0	5.5	2.5	0.25	D09	<input type="radio"/>
2.5	3.0	D09.1325.01.09 MR/L	R AWGB L AWHS	G	8.6	1.35	3.55	6.2	9.0	5.5	2.1	0.31	D09	<input type="radio"/>
3.0	3.5	D09.1630.01.09 MR/L	R AWGA L AWHQ	G	8.6	1.62	3.55	6.2	9.0	5.5	1.9	0.37	D09	<input type="radio"/>
<b>ØDmin = 10.0Mm</b>														
0.5	0.75	D10.0205.01.10 MR/L	R AMAT L AGSC	G	9.3	0.27	4.0	7.0	10.0	5.8	3.4	0.06	D10	<input type="radio"/>
1.0	1.25	D10.0510.01.10 MR/L	R ADPE L AC1S	G	9.3	0.54	4.0	7.0	10.0	5.8	3.2	0.12	D10	<input type="radio"/>
1.5	1.75	D10.0815.01.10 MR/L	R AKN5 L AGUX	G	9.3	0.81	4.0	7.0	10.0	5.8	3.0	0.18	D10	<input type="radio"/>
1.75	2.0	D10.0917.01.10 MR/L	R AEBW L AFX7	G	9.3	0.95	4.0	7.0	10.0	5.8	2.9	0.21	D10	<input type="radio"/>
2.0	2.5	D10.1020.01.10 MR/L	R ACUA L AKXX	G	9.3	1.08	4.0	7.0	10.0	5.8	2.75	0.25	D10	<input type="radio"/>
2.5	3.0	D10.1325.01.10 MR/L	R AMF8 L AN76	G	9.3	1.35	4.0	7.0	10.0	5.8	2.55	0.31	D10	<input type="radio"/>
3.0	3.5	D10.1630.01.10 MR/L	R AH96 L ACJE	G	9.3	1.62	4.0	7.0	10.0	5.8	2.4	0.37	D10	<input type="radio"/>

In-Stock  Left  Right  Both  Two Week Delivery

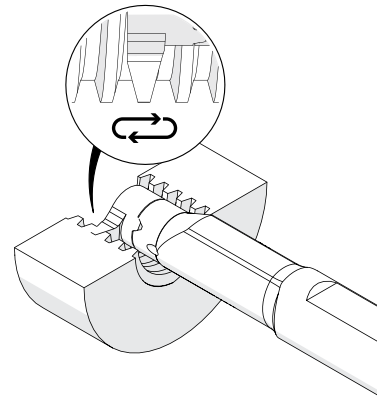
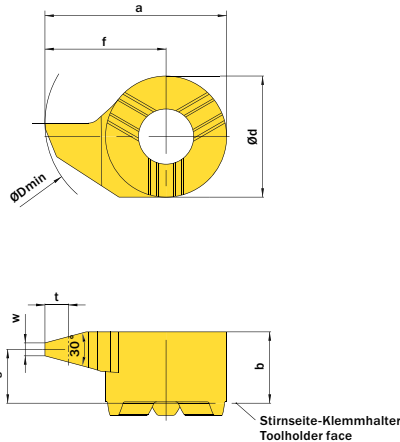


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MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	t	b	Ød	ØDmin	f	S	w	CONNECT-CODE	STOCK
mm	mm				mm	mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 11.0Mm</b>														
0.5	0.75	D11.0205.01 MR/L	R AJEC L ANKC	G	10.7	0.41	4.3	8.0	11.0	6.7	3.75	0.06	D11	<input type="checkbox"/>
1.0	1.25	D11.0510.01 MR/L	R ABSH L ACPA	G	10.7	0.55	4.3	8.0	11.0	6.7	3.6	0.12	D11	<input type="checkbox"/>
1.5	1.75	D11.0815.01 MR/L	R AGA9 L AC8F	G	10.7	0.81	4.3	8.0	11.0	6.7	3.2	0.18	D11	<input type="checkbox"/>
2.0	2.5	D11.1020.01 MR/L	R AJ8F L AGUB	G	10.7	1.08	4.3	8.0	11.0	6.7	2.9	0.25	D11	<input type="checkbox"/>
2.5	3.0	D11.1325.01 MR/L	R AFSG L AMNB	G	10.7	1.35	4.3	8.0	11.0	6.7	3.0	0.31	D11	<input type="checkbox"/>
<b>ØDmin = 14.0Mm</b>														
1.0	1.25	D14.0510.01 MR/L	R AAYN L AJ9C	G	13.5	0.55	5.4	9.0	14.0	9.0	4.6	0.12	D14	<input checked="" type="radio"/>
1.5	1.75	D14.0815.01 MR/L	R AM9F L ADYM	G	13.5	0.81	5.4	9.0	14.0	9.0	4.3	0.18	D14	<input type="checkbox"/>
2.0	2.5	D14.1020.01 MR/L	R AEQN L AA41	G	13.5	1.08	5.4	9.0	14.0	9.0	3.9	0.25	D14	<input checked="" type="radio"/>
2.5	3.0	D14.1325.01 MR/L	R APM1 L AEX9	G	13.5	1.35	5.4	9.0	14.0	9.0	3.65	0.31	D14	<input type="checkbox"/>
<b>ØDmin = 16.0Mm</b>														
1.0	1.25	D16.0510.01 MR/L	R AFMB L ACG7	G	15.7	0.55	5.5	11.0	16.0	10.2	4.8	0.12	D16	<input type="checkbox"/>
1.5	1.75	D16.0815.01 MR/L	R AFAG L ANF1	G	15.7	0.81	5.5	11.0	16.0	10.2	4.3	0.18	D16	<input type="checkbox"/>
2.0	2.5	D16.1020.01 MR/L	R AG9J L AJDQ	G	15.7	1.08	5.5	11.0	16.0	10.2	3.9	0.25	D16	<input type="checkbox"/>
2.5	3.0	D16.1325.01 MR/L	R AKYZ L AGDW	G	15.7	1.35	5.5	11.0	16.0	10.2	3.7	0.31	D16	<input type="checkbox"/>

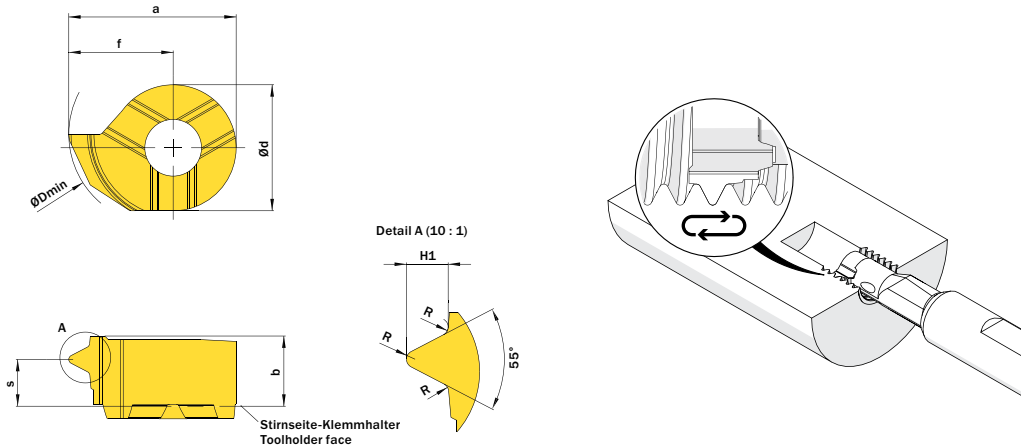
In-Stock  Left  Right  Both  Two Week Delivery

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MIN THREAD SIZE	t	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	ØDmin	f	S	w	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 9.0-10.0Mm</b>														
10.0	0.9	1.5	D09.TR15.01.09 MR/L	R AWF1 L AWHE	G	8.6	3.55	6.2	9.0	5.5	3.0	0.47	D09	<input type="radio"/>
10.0	0.9	1.5	D10.TR15.01.10 MR/L	R ASBH L ASBG	G	9.3	3.95	7.0	10.0	5.8	3.32	0.47	D10	<input type="radio"/>
10.0	1.25	2.0	D10.TR20.01.10 MR/L	R ASBK L ASBJ	G	9.3	3.7	7.0	10.0	5.8	2.91	0.6	D10	<input type="radio"/>
<b>ØDmin = 9.0-10.0Mm</b>														
11.0	1.25	2.0	D09.TR20.01.09 MR/L	R AWF0 L AWHD	G	8.6	3.55	6.2	9.0	5.5	2.85	0.6	D09	<input type="radio"/>
11.0	0.9	1.5	D11.1015.01 MR/L	R AA9G L AAQ0	G	10.7	4.3	8.0	11.0	6.7	3.7	0.47	D11	<input type="radio"/>
11.0	1.25	2.0	D11.1220.01 MR/L	R AF6J L AH27	G	10.7	4.3	8.0	11.0	6.7	3.5	0.6	D11	<input type="radio"/>
<b>ØDmin = 9.0-10.0Mm</b>														
12.0	1.75	3.0	D09.TR30.01.09 MR/L	R AWFZ L AWHC	G	8.6	3.55	6.2	9.0	5.5	2.25	0.96	D09	<input type="radio"/>
12.0	1.75	3.0	D10.TR30.01.10 MR/L	R ASBN L ASBM	G	9.3	3.7	7.0	10.0	5.8	2.57	0.96	D10	<input type="radio"/>
12.0	1.75	3.0	D11.1730.01 MR/L	R AP1Y L AMT5	G	10.7	4.3	8.0	11.0	6.7	3.2	0.96	D11	<input type="radio"/>
<b>ØDmin = 10.0-14.0Mm</b>														
14.0	2.25	4.0	D09.TR40.01.10 MR/L	R AWFY L AWHB	G	9.6	3.55	6.2	10.0	6.5	2.25	1.33	D09	<input type="radio"/>
14.0	1.25	2.0	D14.1220.01 MR/L	R AD11 L AFN9	G	13.5	5.3	9.0	14.0	9.0	4.3	0.6	D14	<input type="radio"/>
14.0	1.75	3.0	D14.1730.01 MR/L	R AMAN L ANQF	G	13.5	5.3	9.0	14.0	9.0	4.0	0.96	D14	<input type="radio"/>
<b>ØDmin = 10.0-16.0Mm</b>														
16.0	2.25	4.0	D10.TR40.01.11 MR/L	R ASBQ L ASBP	G	10.2	3.7	7.0	10.0	6.7	2.14	1.33	D10	<input type="radio"/>
16.0	2.25	4.0	D11.2240.01 MR/L	R ANXG L AFT8	G	10.7	3.95	8.0	11.0	6.7	2.6	1.33	D11	<input type="radio"/>
16.0	2.25	4.0	D14.2240.01 MR/L	R AGYM L AKD9	G	13.5	5.3	9.0	14.0	9.0	4.0	1.33	D14	<input checked="" type="radio"/>
16.0	1.25	2.0	D16.1220.01 MR/L	R AGNW L AAX2	G	15.2	5.5	11.0	16.0	9.7	4.5	0.6	D16	<input type="radio"/>
16.0	1.75	3.0	D16.1730.01 MR/L	R AG99 L AM5S	G	15.2	5.5	11.0	16.0	9.7	4.3	0.96	D16	<input type="radio"/>
16.0	2.25	4.0	D16.2240.01 MR/L	R ANBP L ACCX	G	15.2	5.5	11.0	16.0	9.7	4.0	1.33	D16	<input type="radio"/>
<b>ØDmin = 14.0-16.0Mm</b>														
24.0	2.75	5.0	D14.2750.01 MR/L	R AJ51 L AA01	G	13.5	5.3	9.0	14.0	9.0	3.55	1.69	D14	<input type="radio"/>
24.0	2.75	5.0	D16.2750.01 MR/L	R APG1 L ANCP	G	15.7	5.5	11.0	16.0	10.2	3.6	1.69	D16	<input type="radio"/>
<b>ØDmin = 16.0Mm</b>														
32.0	3.5	6.0	D16.3560.01 MR/L	R AEJX L APZ5	G	15.7	5.5	11.0	16.0	10.2	3.3	1.92	D16	<input type="radio"/>

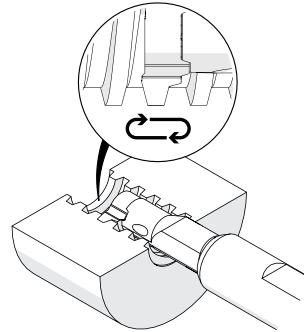
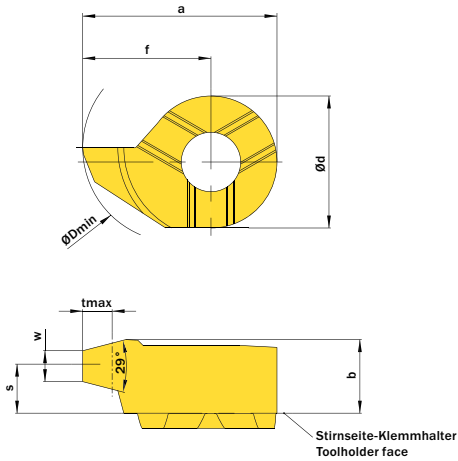
In-Stock  Left  Right  Both  Two Week Delivery



H1	MIN PITCH	THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	ØDmin	f	R	S	CONNECT-CODE	STOCK
mm	mm					mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 10.0Mm</b>														
0.85	1.337	19	D10.0813.19.10 MR/L	R AF1V L AD9V	G	9.3	3.8	7.0	10.0	5.8	0.18	2.8	D10	<input type="radio"/>
1.16	1.814	14	D10.1118.14.10 MR/L	R APMJ L ADU8	G	9.3	3.8	7.0	10.0	5.8	0.24	2.6	D10	<input type="radio"/>
1.48	2.309	11	D10.1423.11.10 MR/L	R AFYX L APUK	G	9.3	3.8	7.0	10.0	5.8	0.31	2.3	D10	<input type="radio"/>
<b>ØDmin = 11.0Mm</b>														
0.85	1.337	19	D11.0813.19 MR/L	R AMMN L AKQV	G	10.7	4.3	8.0	11.0	6.7	0.18	2.7	D11	<input type="radio"/>
1.16	1.814	14	D11.1118.14 MR/L	R AGJS L AB2A	G	10.7	4.3	8.0	11.0	6.7	0.24	3.0	D11	<input type="radio"/>
<b>ØDmin = 14.0Mm</b>														
0.85	1.337	19	D14.0813.19 MR/L	R ANYF L AGT5	G	13.5	5.35	9.0	14.0	9.0	0.18	3.8	D14	<input type="radio"/>
1.16	1.814	14	D14.1118.14 MR/L	R AGGU L APH5	G	13.5	5.35	9.0	14.0	9.0	0.24	3.6	D14	<input type="radio"/>
<b>ØDmin = 11.0Mm</b>														
1.16	1.814	14	D16.1118.14 MR/L	R AGFF L ABXY	G	15.7	5.4	11.0	16.0	10.2	0.24	3.9	D16	<input type="radio"/>
1.48	2.309	11	D16.1423.11 MR/L	R AMQC L AKAB	G	15.7	5.4	11.0	16.0	10.2	0.31	3.5	D16	<input type="radio"/>

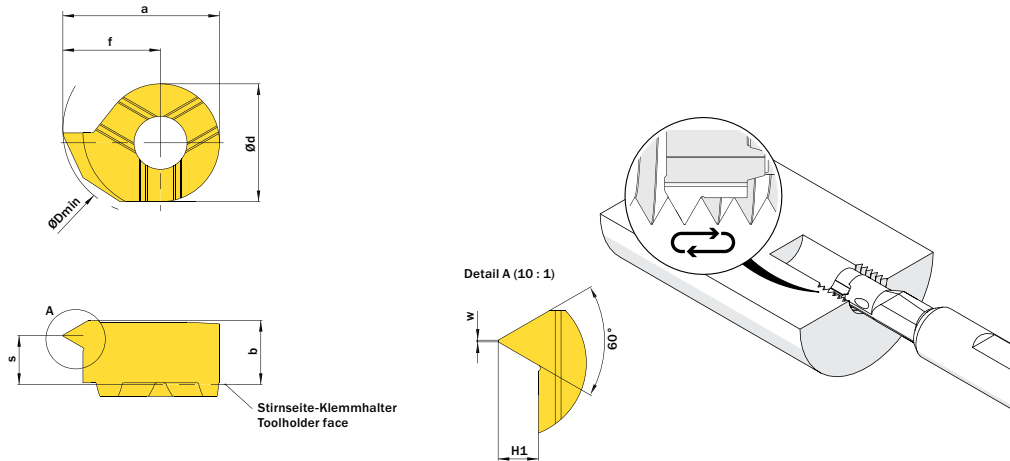
In-Stock  Left   Right  Both  Two Week Delivery

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THREADS/ INCH	ØDmin	TYPE	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	f	MIN PITCH	S	w	tmax	CONNECT- CODE	STOCK
<b>ØDmin = 10.0Mm</b>															
10	10.0	STUB-ACME	D10.SA10.01.10 MR/L	R AGDD L AFWG	G	9.3	3.9	7.0	5.8	2.54	2.9	0.94	1.19	D10	<input type="checkbox"/>
<b>ØDmin = 10.0Mm</b>															
5	10.0	STUB-ACME	D10.SA05.01.10 MR/L	R AFAM L AE4B	G	9.3	3.72	7.0	5.8	5.08	1.95	2.01	2.04	D10	<input type="checkbox"/>
<b>ØDmin = 10.0-11.0Mm</b>															
6	11.0	ACME	D10.AC06.01.11 MR/L	R AEAB L AJ18	G	10.3	3.9	7.0	6.8	4.233	2.3	1.43	2.63	D10	<input type="checkbox"/>
6	10.0	STUB-ACME	D10.SA06.01.10 MR/L	R AK49 L AGC9	G	9.3	3.85	7.0	5.8	4.233	2.35	1.65	1.76	D10	<input type="checkbox"/>
6	11.0	ACME	D11.AC06.01 MR/L	R AKTH L ATV6	G	10.7	3.95	8.0	6.7	4.233	2.5	1.43	2.39	D11	<input type="checkbox"/>
<b>ØDmin = 10.0-11.0Mm</b>															
8	11.0	ACME	D10.AC08.01.11 MR/L	R AJCF L AHZU	G	10.3	3.9	7.0	6.8	3.175	2.65	1.04	2.1	D10	<input type="checkbox"/>
8	10.0	STUB-ACME	D10.SA08.01.10 MR/L	R AB7E L AF6Z	G	9.3	3.72	7.0	5.8	3.175	2.3	1.21	1.41	D10	<input type="checkbox"/>

In-Stock  Left  Right  Both  Two Week Delivery

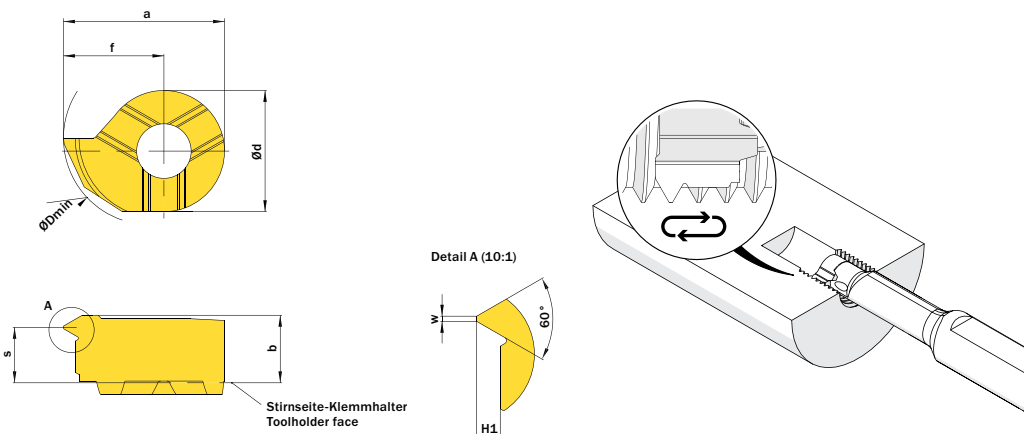


THREADS/ INCH	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	f	MIN PITCH	S	w	tmax	CONNECT- CODE	STOCK
	mm				mm	mm	mm	mm	mm	mm	mm	mm		
<b>ØDmin = 10.0Mm</b>														
14	10.0	D10.NP14.02.10 MR/L	R AHTH L AHKY	G	9.3	3.8	7.0	5.8	1.48	1.814	2.7	0.07	D10	<input checked="" type="radio"/>
<b>ØDmin = 10.0Mm</b>														
18	10.0	D10.NP18.02.10 MR/L	R AMWT L ACWX	G	9.3	3.8	7.0	5.8	1.19	1.411	2.9	0.05	D10	<input type="radio"/>
<b>ØDmin = 10.0Mm</b>														
27	10.0	D10.NP27.02.10 MR/L	R ABKW L ADBW	G	9.3	3.8	7.0	5.8	0.8	0.941	3.2	0.04	D10	<input type="radio"/>

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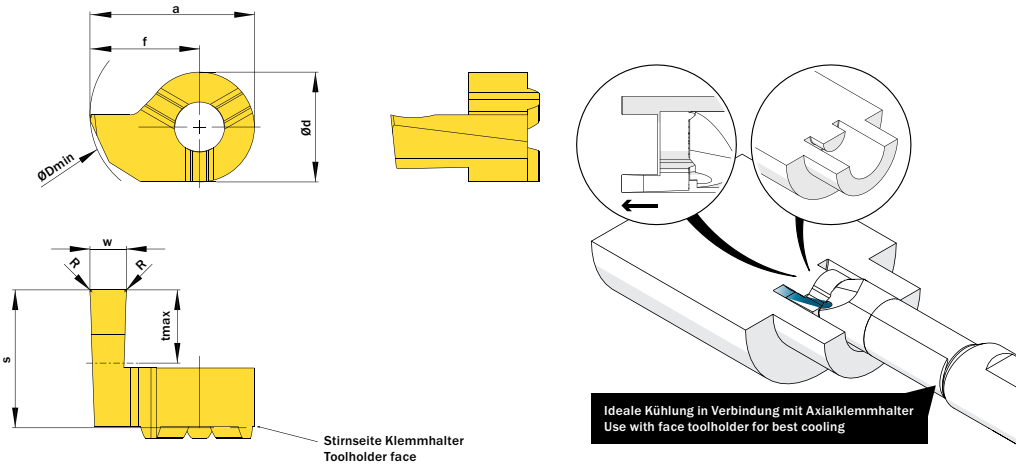
In-Stock  Left  Right  Both  Two Week Delivery

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THREADS/ INCH	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	b	Ød	f	H1	MIN PITCH	S	w	CONNECT- CODE	STOCK
	mm				mm	mm	mm	mm	mm	mm	mm	mm		
ØDmin = 10.0mm														
10	10.0	D10.UN10.02.10 MR/L	R AS8U L AS8T	G	9.3	3.9	7.0	5.8	1.37	2.54	2.7	0.31	D10	○
ØDmin = 10.0mm														
14	10.0	D10.UN14.02.10 MR/L	R AMKN L AMWU	G	9.3	3.9	7.0	5.8	0.98	1.81	3.2	0.22	D10	○
ØDmin = 10.0mm														
16	10.0	D10.UN16.02.10 MR/L	R ADTY L AG2V	G	9.3	3.9	7.0	5.8	0.86	1.59	3.1	0.19	D10	○
ØDmin = 10.0mm														
18	10.0	D10.UN18.02.10 MR/L	R AC8W L AFWF	G	9.3	3.9	7.0	5.8	0.76	1.41	3.2	0.18	D10	○
ØDmin = 10.0mm														
20	10.0	D10.UN20.02.10 MR/L	R AJ7T L AJ58	G	9.3	3.9	7.0	5.8	0.68	1.27	3.2	0.15	D10	○
ØDmin = 10.0mm														
24	10.0	D10.UN24.02.10 MR/L	R AAB4 L AKGC	G	9.3	3.9	7.0	5.8	0.57	1.06	3.3	0.13	D10	○
ØDmin = 10.0mm														
28	10.0	D10.UN28.02.10 MR/L	R AF3V L AMB5	G	9.3	3.9	7.0	5.8	0.49	0.91	3.4	0.11	D10	○
ØDmin = 10.0mm														
32	10.0	D10.UN32.02.10 MR/L	R AB0Q L AHY0	G	9.3	3.9	7.0	5.8	0.49	0.91	3.4	0.11	D10	○
ØDmin = 10.0mm														
8	10.0	D10.UN08.02.10 MR/L	R AS8Y L AS8X	G	9.3	3.9	7.0	5.8	1.71	3.175	2.5	0.39	D10	○

In-Stock  Left  Right  Both  Two Week Delivery



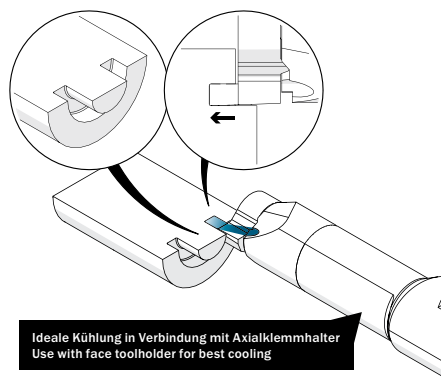
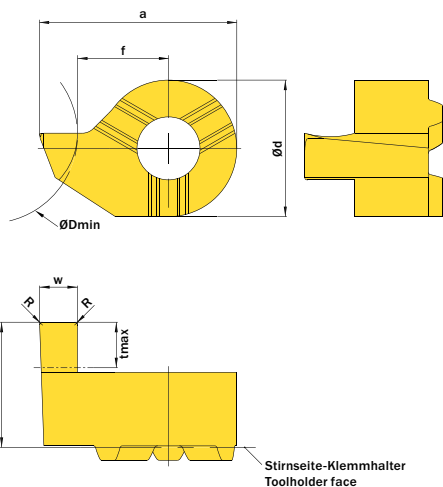
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ØDmin	W	R	tmax	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	S	CONNECTCODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm		
<b>ØDmin = 14.0mm</b>												
14.0	1.0	-	1.5	D14.1410.00 AR/L	R AB03 L AJC4	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	1.17	-	1.5	D14.1411.00 AR/L	R AA1G L AGEN	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
<b>ØDmin = 14.0mm</b>												
14.0	1.5	0.2	2.5	D14.1415.02 AR/L	R AET8 L ABZX	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input checked="" type="radio"/>
14.0	1.6	0.2	2.5	D14.1416.02 AR/L	R AC9S L AGVC	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input checked="" type="radio"/>
<b>ØDmin = 14.0mm</b>												
14.0	2.0	0.2	3.0	D14.1420.02 AR/L	R AKZS L AG57	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input checked="" type="radio"/>
14.0	2.39	0.2	3.0	D14.1424.02 AR/L	R AF82 L AHNH	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	2.5	0.2	3.0	D14.1425.02 AR/L	R AMKF L AJN5	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	3.0	0.2	3.0	D14.1430.02 AR/L	R ABPP L AMDG	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	3.18	0.2	3.0	D14.1432.02 AR/L	R AHGE L AMA5	G	13.5	9.0	9.0	8.3	D14.A.R D14.A.L	<input type="radio"/>
<b>ØDmin = 14.0mm</b>												
14.0	2.0	0.2	5.0	D14.1420.52 AR/L	R AGV5 L AATA	G	13.5	9.0	9.0	10.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	2.39	0.2	5.0	D14.1424.52 AR/L	R AF3H L AMMD	G	13.5	9.0	9.0	10.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	2.5	0.2	5.0	D14.1425.52 AR/L	R ACQN L AGFZ	G	13.5	9.0	9.0	10.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	3.0	0.2	5.0	D14.1430.52 AR/L	R AKV7 L AJKK	G	13.5	9.0	9.0	10.3	D14.A.R D14.A.L	<input type="radio"/>
14.0	3.18	0.2	5.0	D14.1432.52 AR/L	R AGHH L ANZK	G	13.5	9.0	9.0	10.3	D14.A.R D14.A.L	<input type="radio"/>
<b>ØDmin = 14.0mm</b>												
14.0	3.0	0.2	6.0	D14.1430.62 AR	R AGU2	G	13.5	9.0	9.0	11.3	D14.A.R	<input type="radio"/>
<b>ØDmin = 18.0mm</b>												
18.0	3.0	0.2	10.0	D18.1830.10.02 AR/L	R AGNP L AVST	G	15.5	11.0	11.0	15.8	D14.A.R D14.A.L	<input type="radio"/>
18.0	4.0	0.2	10.0	D18.1840.10.02 AR/L	R AVJW L AVSU	G	16.5	11.0	11.5	15.8	D14.A.R D14.A.L	<input type="radio"/>



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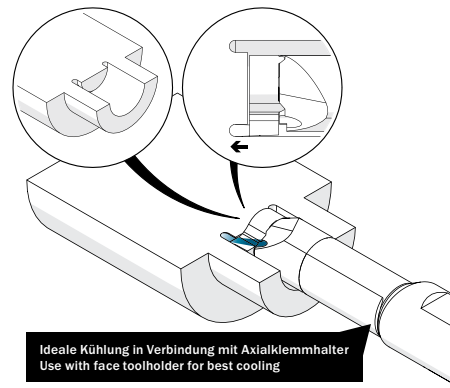
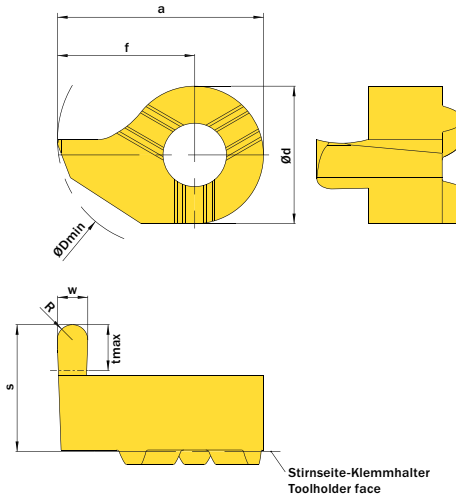


ØDmin	W	R	tmax	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	S	CONNECTCODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm		
<b>ØDmin = 12.0mm</b>												
12.0	1.0	-	1.5	D14.1210.00 AR/L	R ABWS L	AJFU G	11.5	9.0	6.0	8.3	D14.A.R	D14.A.L <input checked="" type="radio"/>
12.0	1.17	-	1.5	D14.1211.00 AR/L	R AN2V L	AK7A G	11.5	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
<b>ØDmin = 12.0mm</b>												
12.0	1.5	0.2	2.5	D14.1215.02 AR/L	R APSE L	AAPS G	12.0	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	1.6	0.2	2.5	D14.1216.02 AR/L	R ANAD L	AMU8 G	12.0	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
<b>ØDmin = 12.0mm</b>												
12.0	2.0	0.2	3.0	D14.1220.02 AR/L	R AC8D L	AE18 G	12.5	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	2.4	0.2	3.0	D14.1224.02 AR/L	R AKEX L	AFYK G	12.9	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	2.5	0.2	3.0	D14.1225.02 AR/L	R AGWW L	AEK9 G	13.0	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	3.0	0.2	3.0	D14.1230.02 AR/L	R AE7M L	AMQB G	13.5	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	3.18	0.2	3.0	D14.1232.02 AR/L	R AEWL L	AJFT G	13.68	9.0	6.0	8.3	D14.A.R	D14.A.L <input type="radio"/>
<b>ØDmin = 12.0mm</b>												
12.0	2.0	0.2	5.0	D14.1220.52 AR/L	R ADJN L	AMVV G	12.5	9.0	6.0	10.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	2.4	0.2	5.0	D14.1224.52 AR/L	R AGNN L	ADHM G	12.9	9.0	6.0	10.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	2.5	0.2	5.0	D14.1225.52 AR/L	R AF2H L	AHXS G	13.0	9.0	6.0	10.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	3.0	0.2	5.0	D14.1230.52 AR/L	R AKFF L	AP2M G	13.5	9.0	6.0	10.3	D14.A.R	D14.A.L <input type="radio"/>
12.0	3.18	0.2	5.0	D14.1232.52 AR/L	R AMPY L	AN1Y G	13.68	9.0	6.0	10.3	D14.A.R	D14.A.L <input type="radio"/>
<b>ØDmin = 12.0mm</b>												
12.0	3.0	0.2	6.0	D14.1230.62 AR	R AAKH	G	13.5	9.0	6.0	11.3	D14.A.R	<input type="radio"/>
<b>ØDmin = 16.0mm</b>												
16.0	3.0	0.2	10.0	D18.1630.10.02 A R/L	R AT1G L	AVSW G	16.5	11.0	8.0	15.8	D14.A.R	D14.A.L <input type="radio"/>
16.0	4.0	0.2	10.0	D18.1640.10.02 A R/L	R AT1H L	AVSV G	17.5	11.0	8.0	15.8	D14.A.R	D14.A.L <input type="radio"/>

# FACE GROOVING (RADIUS) - DX



In-Stock  Left  Right  Both  Two Week Delivery

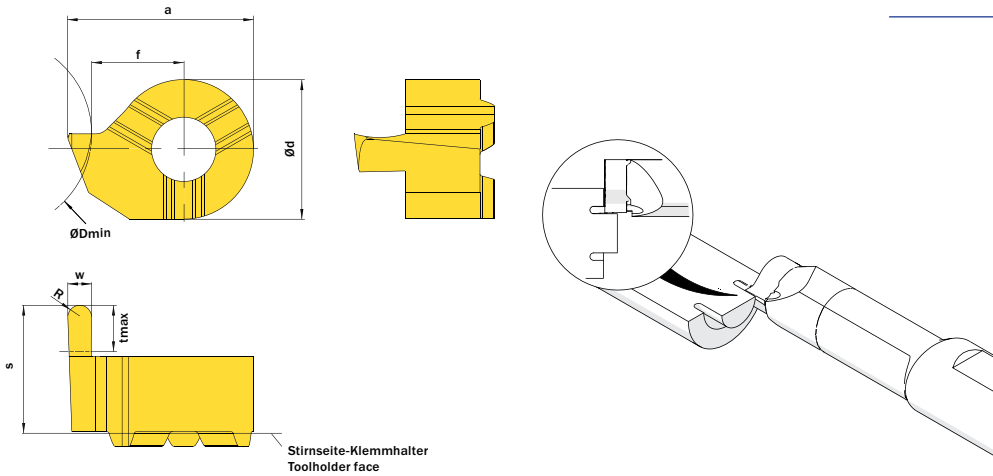


ØDmin	W	R	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	S	tmax	CONNECTCODE	STOCK
mm	mm	mm				mm	mm	mm	mm	mm		
ØDmin = 14.0mm												
14.0	1.0	0.5	D14.1410.05 AR/L	R AEG0 L ACGA	G	13.5	9.0	9.0	8.3	1.5	D14.A.R	D14.A.L <input type="checkbox"/>
ØDmin = 14.0mm												
14.0	1.6	0.8	D14.1416.08 AR/L	R ABNN L AFEQ	G	13.5	9.0	9.0	8.3	2.5	D14.A.R	D14.A.L <input type="checkbox"/>
ØDmin = 14.0mm												
14.0	2.0	1.0	D14.1420.10 AR/L	R APW0 L AHNX	G	13.5	9.0	9.0	8.3	3.0	D14.A.R	D14.A.L <input type="checkbox"/>
14.0	2.5	1.25	D14.1425.12 AR/L	R ANJW L ADX1	G	13.5	9.0	9.0	8.3	3.0	D14.A.R	D14.A.L <input type="checkbox"/>
14.0	3.0	1.5	D14.1430.15 AR/L	R AP37 L ABES	G	13.5	9.0	9.0	8.3	3.0	D14.A.R	D14.A.L <input checked="" type="checkbox"/>
ØDmin = 14.0mm												
14.0	2.0	1.0	D14.1420.50 AV R/L	R AWE5 L AWE4	G	13.5	9.0	9.0	10.3	5.0	D14.A.R	D14.A.L <input type="checkbox"/>
14.0	2.5	1.25	D14.1425.50 AV R/L	R AWE7 L AWE6	G	13.5	9.0	9.0	10.3	5.0	D14.A.R	D14.A.L <input type="checkbox"/>
14.0	3.0	1.5	D14.1430.50 AV R/L	R AWE9 L AWE8	G	13.5	9.0	9.0	10.3	5.0	D14.A.R	D14.A.L <input type="checkbox"/>

# FACE GROOVING (RADIUS) - DX

In-Stock  Left  Right  Both  Two Week Delivery

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ØDmin	W	R	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	a	Ød	f	S	tmax	CONNECTCODE	STOCK	
mm	mm	mm				mm	mm	mm	mm	mm			
<b>ØDmin = 12.0mm</b>													
12.0	1.0	0.5	D14.1210.05 AR/L	R AU6C L AU6B	G	11.5	9.0	6.0	8.3	1.5	D14.A.R	D14.A.L	<input type="radio"/>
<b>ØDmin = 12.0mm</b>													
12.0	1.6	0.8	D14.1216.08 AR/L	R AU6E L AU6D	G	12.0	9.0	6.0	8.3	2.5	D14.A.R	D14.A.L	<input type="radio"/>
<b>ØDmin = 12.0mm</b>													
12.0	2.0	1.0	D14.1220.10 AR/L	R AU6G L AU6F	G	12.5	9.0	6.0	8.3	3.0	D14.A.R	D14.A.L	<input type="radio"/>
12.0	2.5	1.25	D14.1225.12 AR/L	R AU6J L AU6H	G	13.0	9.0	6.0	8.3	3.0	D14.A.R	D14.A.L	<input type="radio"/>
12.0	3.0	1.5	D14.1230.15 AR/L	R AU6M L AU6K	G	13.5	9.0	6.0	8.3	3.0	D14.A.R	D14.A.L	<input type="radio"/>
<b>ØDmin = 12.0mm</b>													
12.0	2.0	1.0	D14.1220.50 AV R/L	R AWEZ L AWEY	G	12.5	9.0	6.0	10.3	5.0	D14.A.R	D14.A.L	<input type="radio"/>
12.0	2.5	1.25	D14.1225.50 AV R/L	R AWE1 L AWE0	G	13.0	9.0	6.0	10.3	5.0	D14.A.R	D14.A.L	<input type="radio"/>
12.0	3.0	1.5	D14.1230.50 AV R/L	R AWE3 L AWE2	G	13.5	9.0	6.0	10.3	5.0	D14.A.R	D14.A.L	<input type="radio"/>

# CUTTING SPEED PARAMETERS



ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
P	GN39	Steel, unalloyed	≤ 0.15 % C	630
			0.15-0.4 % C	570
			≥ 0.4 % c	540
		Steel, low alloyed (Alloying elements ≤ 5%)	Non-hardened	510
			Hardened	300
		Steel, high alloyed (Alloying elements > 5%)	Annealed	330
			Hardened	270
Castings	Unalloyed	450		
	Low alloying (Alloying elements ≤ 5%) High alloying (Alloying elements > 5%)	360 270		

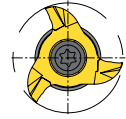
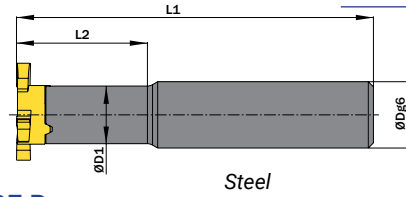
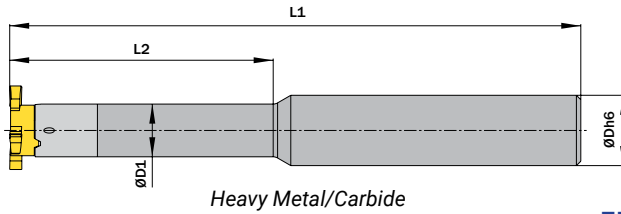
ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
M	GT45	Stainless steel (Ferritic/Marrensitic)	Non-hardened	450
			PH-hardened	330
			Hardened	330
		Stainless Steel Austenitic	Austenitic	420
			PH-hardened	300
			Supen Austenitic	330
		Stainless steel Austenitic-ferritic (Duplex)	Non-weldable ≥ 0.05% C	360
			Weldable < 0.05% C	300
		Stainless steel (Cast) Ferritic/martensitic	Non-hardened	390
			PH-hardened	270
			Hardened	300
		Stainless steel (Cast) Austenitic	Austenitic	390
PH-geharet	270			
Stainless steel (Cast) Austenitic-ferritic (Duplex)	Non-weldable ≥ 0.05% C	330		
	Weldable < 0.05% C	270		

ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
K	GN39	Malleable	Ferritic (Short chipping)	540
			Pearlitic (Long chipping)	450
		Grey Cast Iron	Low tensile strength	600
			High tensile strength	450
		Spheroidal Graphite Cast Iron	Ferritic	360
			Pearlitic	330
			Martensitic	330

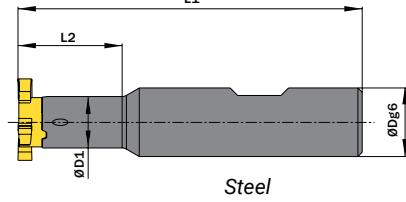
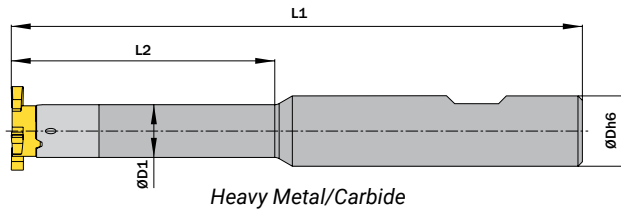
ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
N	GN39	Alluminium Alloys, Whrought	Can not be hardened	1770
			Can be hardened, hardened	1590
		Alluminium Alloys, Cast	Can not be hardened	1770
			Can be hardened, hardened	1590
		Aluminium Alloys. Cast	< 5% Si	720
			5-12% Si	720
			> 12% Si	540
Copper and Copper Alloys	Free Cutting Alloys, ≥ 1% Pb	870		
	Brass, leaded bronzes, ≤ 1% Pb	870		
	Bronze, lead-free copper incl. electrolyti copper	630		

**FIGURE A**

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**FIGURE B**



ØDg6	D1	L2	PART NUMBER	WEBCODE	L1	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm			mm					
<b>ØDg6 = 10.0mm</b>										
10.0	6.0	15.0	P10.1006.15 A ST	AG7K	60.0	P M2.6x8 T8F	T8F	A	PD06.0	○
<b>ØDg6 = 15.875mm</b>										
15.875**	6.0	12.0	<b>P10.0.625.06.12 A ST</b>	ABXD	80.0	P M2.6x8 T8F	T8F	A	PD06.0	○
<b>ØDg6 = 16.0mm</b>										
16.0	6.0	12.0	P10.1606.12 A ST	AE8E	80.0	P M2.6x8 T8F	T8F	A	PD06.0	○
<b>ØDg6 = 10.0mm</b>										
10.0	6.0	15.0	P10.1006.15 B ST	AGS0	74.0	P M2.6x8 T8F	T8F	B	PD06.0	○
<b>ØDg6 = 12.0mm</b>										
12.0	6.0	15.0	P10.1206.15 B ST	AK28	74.0	P M2.6x8 T8F	T8F	B	PD06.0	○
<b>ØDg6 = 15.875mm</b>										
15.875**	6.0	12.0	<b>P10.0.625.06.12 B ST</b>	AH0P	80.0	P M2.6x8 T8F	T8F	B	PD06.0	○
<b>ØDg6 = 16.0mm</b>										
16.0	6.0	12.0	P10.1606.12 B ST	AAB7	80.0	P M2.6x8 T8F	T8F	B	PD06.0	○
<b>ØDh6 = 12.0mm</b>										
12.0	6.0	21.0	P10.1206.21 A HM	AE35	80.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.0	6.0	30.0	P10.1206.30 A HM	AG5A	90.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.0	6.0	42.0	P10.1206.42 A HM	AMEK	100.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.0	7.3	30.0	P10.1207.30 A HM	AHBF	90.0	P M2.6x8 T8F	T8F	A	PD07.3	○
<b>ØDh6 = 12.7mm</b>										
12.7*	6.0	21.0	<b>P10.0.500.06.21 A HM</b>	AE25	80.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.7*	6.0	21.0	<b>P10.0.500.06.30 A HM</b>	AKHS	90.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.7*	6.0	42.0	<b>P10.0.500.06.42 A HM</b>	AMMM	100.0	P M2.6x8 T8F	T8F	A	PD06.0	○
12.7*	7.3	30.0	<b>P10.0.500.07.30 A HM</b>	APFF	90.0	P M2.6x8 T8F	T8F	A	PD07.3	○
<b>ØDh6 = 15.875mm</b>										
15.875**	7.3	25.0	<b>P10.0.625.07.25 A HM</b>	AF2B	100.0	P M2.6x8 T8F	T8F	A	PD07.3	○
<b>ØDh6 = 16.0mm</b>										
16.0	7.3	25.0	P10.1607.25 A HM	ADVZ	100.0	P M2.6x8 T8F	T8F	A	PD07.3	○
<b>ØDh6 = 12.0mm</b>										
12.0	6.0	21.0	P10.1206.21 B HM	AKJM	80.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.0	6.0	30.0	P10.1206.30 B HM	AC5B	90.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.0	6.0	42.0	P10.1206.42 B HM	AHUG	100.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.0	7.3	30.0	P10.1207.30 B HM	AHJ7	90.0	P M2.6x8 T8F	T8F	B	PD07.3	○
<b>ØDh6 = 12.7mm</b>										
12.7*	6.0	21.0	<b>P10.0.500.06.21 B HM</b>	AFUZ	80.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.7*	6.0	30.0	<b>P10.0.500.06.30 B HM</b>	AJXS	90.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.7*	6.0	42.0	<b>P10.0.500.06.42 B HM</b>	ABXZ	100.0	P M2.6x8 T8F	T8F	B	PD06.0	○
12.7*	7.3	30.0	<b>P10.0.500.07.30 B HM</b>	AEDG	90.0	P M2.6x8 T8F	T8F	B	PD07.3	○
<b>ØDh6 = 15.875mm</b>										
15.875**	7.3	25.0	<b>P10.0.625.07.25 B HM</b>	ADDD	100.0	P M2.6x8 T8F	T8F	B	PD07.3	○
<b>ØDh6 = 16.0mm</b>										
16.0	7.3	25.0	P10.1607.25 B HM	AP0F	100.0	P M2.6x8 T8F	T8F	B	PD07.3	○

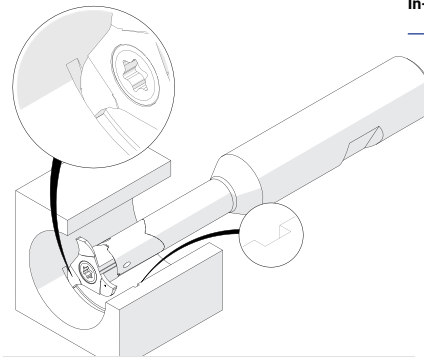
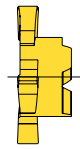
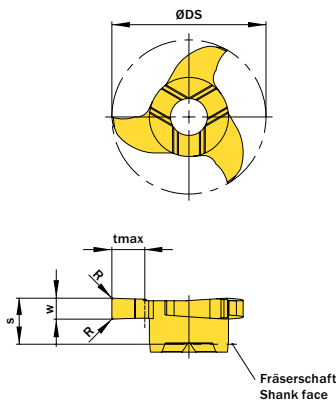
ST = Steel Shank

HM = Carbide Shank

\* 1/2"

\*\* 5/8"

# GROOVE MILLING - PX



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Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.0160.41 C

W	NOMINAL WIDTH	R	Dmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
0.74	0.7	-	10.0	P10.0070.00 Z	AHB1	G	1.5	3.5	9.7	3	PD06.0	○
0.84	0.8	-	10.0	P10.0080.00 Z	AKU6	G	1.5	3.5	9.7	3	PD06.0	○
0.94	0.9	-	10.0	P10.0090.00 Z	AG93	G	1.5	3.5	9.7	3	PD06.0	○
1.0	-	0.1	10.0	P10.0100.01 G	AVH5	G	1.5	3.5	9.7	3	PD06.0	○
1.04	1.0	-	10.0	P10.0100.00 G	AA4Q	G	1.5	3.5	9.7	3	PD06.0	○
1.21	1.1	-	10.0	P10.0110.00 G	AJ8Z	G	1.5	3.5	9.7	3	PD06.0	○
1.41	1.3	0.1	10.0	P10.0130.01 G	AJVP	G	1.5	3.5	9.7	3	PD06.0	○
1.5	-	0.2	10.0	P10.0150.02 G	APHM	G	1.5	3.5	9.7	3	PD06.0	○
1.57	-	-	10.0	P10.0157.00 G	APT8	G	1.5	3.5	9.7	3	PD06.0	○
1.71	1.6	0.1	10.0	P10.0160.01 G	AGG7	G	1.5	3.5	9.7	3	PD06.0	○
2.0	-	0.2	10.0	P10.0200.02 G	ABGQ	G	1.5	3.5	9.7	3	PD06.0	○
2.5	-	0.2	10.0	P10.0250.02 G	AM11	G	1.5	3.5	9.7	3	PD06.0	○

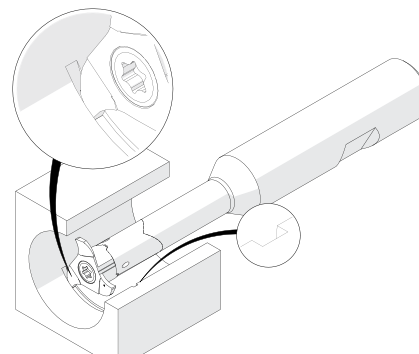
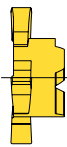
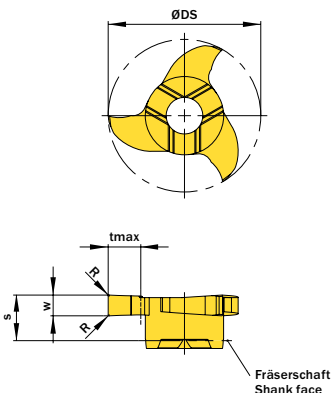
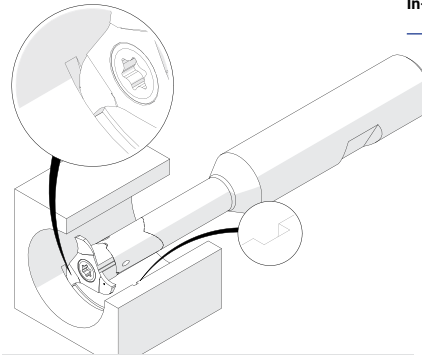
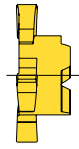
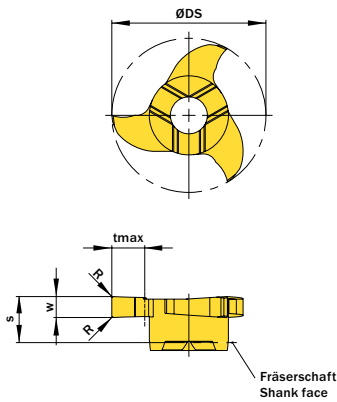


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.0160.41 C

W	NOMINAL WIDTH	R	Dmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.21	1.1	-	12.0	P12.0110.00 G	ACHB	G	2.5	3.5	11.7	3	PD06.0	○
1.41	1.3	0.1	12.0	P12.0130.01 G	AGB6	G	2.5	3.5	11.7	3	PD06.0	○
1.5	-	0.2	12.0	P12.0150.02 G	AM2N	G	2.5	3.5	11.7	3	PD06.0	○
1.57	-	0.2	12.0	P12.0157.02 G	APGW	G	2.5	3.5	11.7	3	PD06.0	○
1.71	1.6	0.1	12.0	P12.0160.01 G	AK06	G	2.5	3.5	11.7	3	PD06.0	○
2.0	-	0.2	12.0	P12.0200.02 G	APVD	G	2.5	3.5	11.7	3	PD06.0	○
2.5	-	0.2	12.0	P12.0250.02 G	ABHM	G	2.5	3.5	11.7	3	PD06.0	●

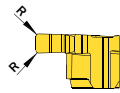
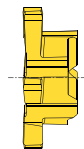
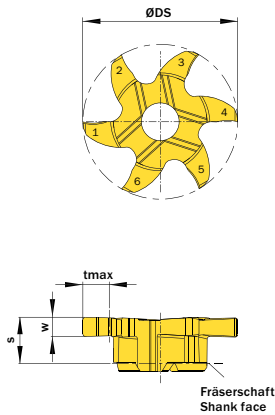


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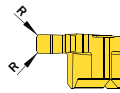
Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.0160.41 C

W	NOMINAL WIDTH	R	Dmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.21	1.1	-	12.0	P12.0110.40 C	AKAK	G	2.5	3.5	11.7	3	PD06.0	○
1.41	1.3	0.1	12.0	P12.0130.41 C	AGC3	G	2.5	3.5	11.7	3	PD06.0	○
1.71	1.6	0.1	12.0	P12.0160.41 C	AGNK	G	2.5	3.5	11.7	3	PD06.0	○



Schneide / Cutting edge 1, 3, 5



Schneide / Cutting edge 2, 4, 6

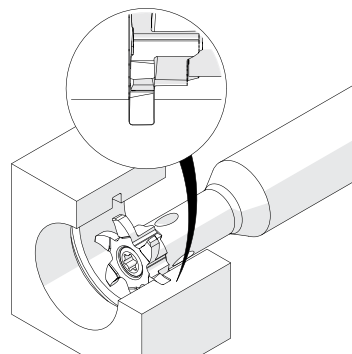


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P06.0150.20.12 GY

W	NOMINAL WIDTH	R	DMIN	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.5	-	0.2	12.0	P06.0150.02.12 G	AU7N	G	2.0	3.5	11.7	6	PD06.0/PD07.3	●
1.5	-	0.2	12.0	P06.0150.020.12 GY	AYF3	G	2.0	3.5	11.7	6	PD06.0/PD07.3	○
2.0	-	0.2	12.0	P06.0200.02.12 G	AU7P	G	2.0	3.5	11.7	6	PD06.0/PD07.3	○
2.0	-	0.2	12.0	P06.0200.020.12 GY	AYF4	G	2.0	3.5	11.7	6	PD06.0/PD07.3	○

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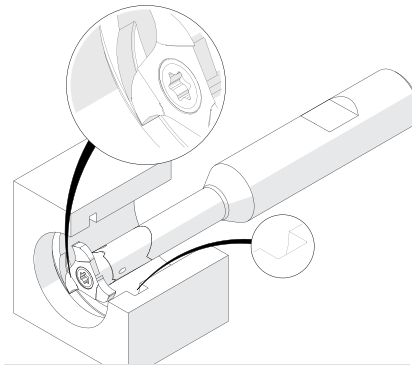
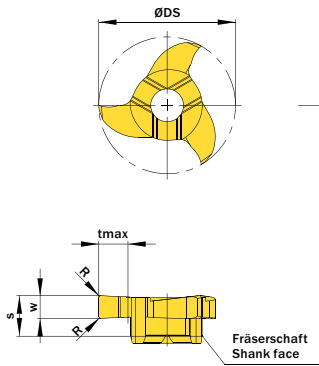


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.0200.42 C

W	NOMINAL WIDTH	R	Dmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.5	-	0.2	12.0	P12.0150.42 C	AKVT	G	2.5	3.5	11.7	3	PD06.0	○
2.0	-	0.2	12.0	P12.0200.42 C	AMPQ	G	2.5	3.5	11.7	3	PD06.0	○
2.5	-	0.2	12.0	P12.0250.42 C	AKX9	G	2.5	3.5	11.7	3	PD06.0	○

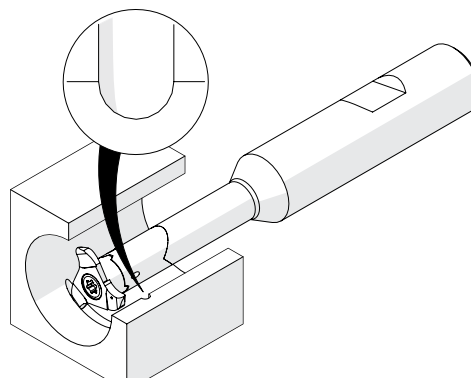
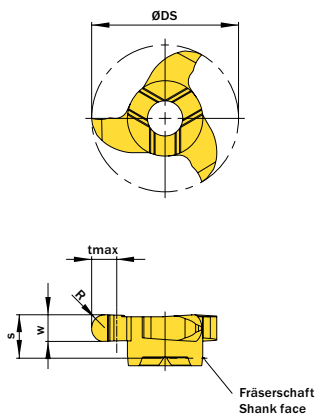


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.0011.22 V

W	R	Dmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm			
2.2	1.1	12.0	P12.0011.22 V	AC2H	G	2.5	3.5	11.7	3	PD06.0	○

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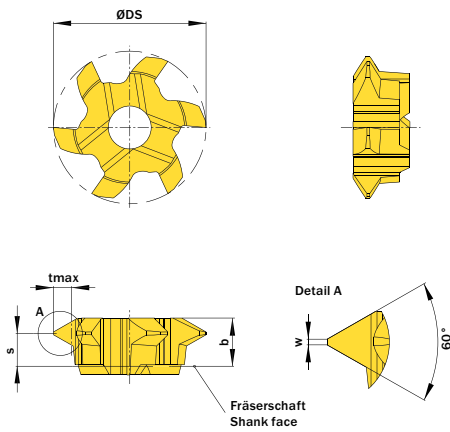


Abbildung zeigt / Drawing shows: P06.0720.01.10 M

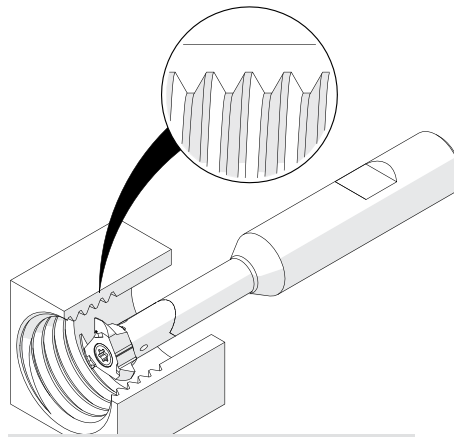


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	B	S	W	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
M12	1.0	1.75	P06.0510.01.10 M	AU7Q	G	3.2	2.4	0.13	1.08	9.8	6	PD06.0/PD07.3	○
M14	1.0	2.0	P06.0720.01.10 M	AU7S	G	3.2	2.2	0.13	1.25	10.1	6	PD06.0/PD07.3	○
M14	1.0	2.0	P06.0720.01.12 M	AUGB	G	3.2	2.7	0.09	1.25	11.7	6	PD06.0/PD07.3	○
M16	1.5	2.75	P06.0815.01.11 M	AU7T	G	3.2	2.0	0.19	1.67	11.0	6	PD06.0/PD07.3	○
M16	2.0	3.0	P06.2530.01.11 M	AU7U	G	3.2	1.9	0.25	1.78	11.1	6	PD06.0/PD07.3	○

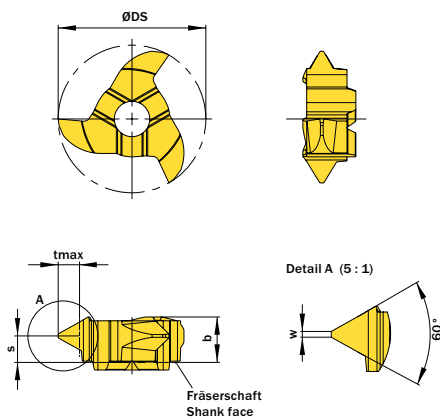


Abbildung zeigt / Drawing shows: P12.2530.01 M

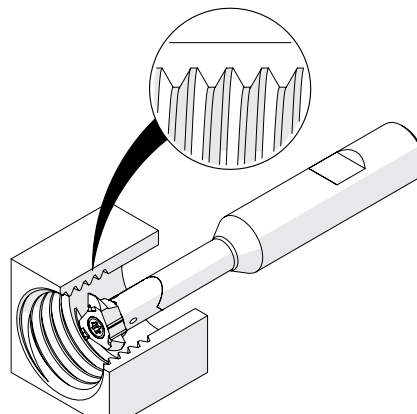


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	B	S	W	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
M14	1.0	1.75	P12.0510.01 M	ANQC	G	3.6	2.8	0.13	1.08	11.7	3	PD06.0/PD07.3	○
M14	1.0	2.0	P12.0720.01 M	ANJZ	G	3.6	2.8	0.13	1.25	11.7	3	PD06.0/PD07.3	○
M16	1.5	2.75	P12.0815.01 M	AC51	G	3.6	2.4	0.19	1.67	11.7	3	PD06.0/PD07.3	○
M16	2.0	3.0	P12.2530.01 M	ADMQ	G	3.6	2.2	0.25	1.78	11.7	3	PD06.0/PD07.3	○

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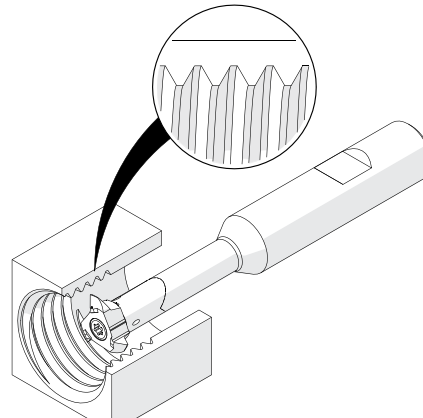
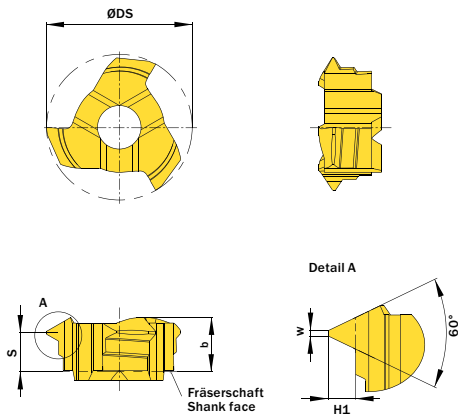


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P10.0815.02 M

H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	# OF CUTTING EDGES	B	ØDS	S	W	CONNECT-CODE	STOCK
mm	mm					mm	mm	mm	mm		
0.41	0.75	P10.0407.02 M	AXX4	G	3	3.6	9.7	3.1	0.09	PD06.0/PD07.3	○
0.54	1.0	P10.0510.02 M	AXX5	G	3	3.6	9.7	3.0	0.13	PD06.0/PD07.3	○
0.81	1.5	P10.0815.02 M	AXX6	G	3	3.6	9.7	2.8	0.19	PD06.0/PD07.3	○
0.95	1.75	P10.0917.02 M	AXX7	G	3	3.6	9.7	2.7	0.2	PD06.0/PD07.3	○
1.08	2.0	P10.1020.02 M	AXX8	G	3	3.6	9.7	2.6	0.25	PD06.0/PD07.3	○
1.35	2.5	P10.1325.02 M	AXX9	G	3	3.6	9.7	2.4	0.31	PD06.0	○

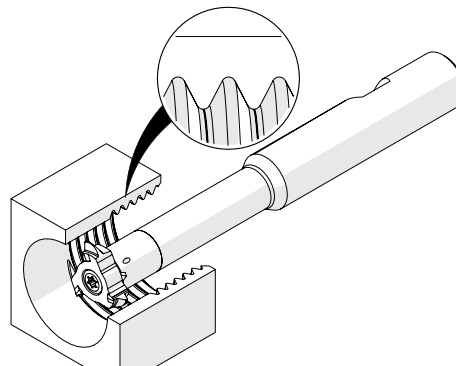
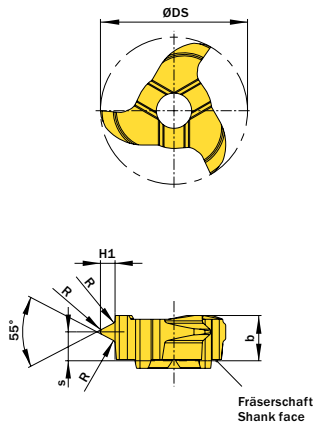


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: P12.1118.14 M

H1	MIN PITCH	THREADS/ INCH	PART NUMBER	WEB-CODE	CUTTING EDGE GROUP	R	B	S	ØDS	AS OF THREAD SIZE	ALT. AS OF NOMINAL DIAMETER	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm					mm	mm	mm	mm		mm			
0.86	1.34	19	P12.0813.19 M	AC8H	G	0.18	3.6	2.5	11.7	G 3/8"	15.1	3	PD06.0/PD07.3	○
1.16	1.81	14	P12.1118.14 M	AGX4	G	0.24	3.6	2.3	11.7	G 1/2"	17.5	3	PD06.0/PD07.3	○
1.48	2.31	11	P12.1423.11 M	AC4K	G	0.31	3.6	2.0	11.7	G 1"	18.8	3	PD06.0/PD07.3	○

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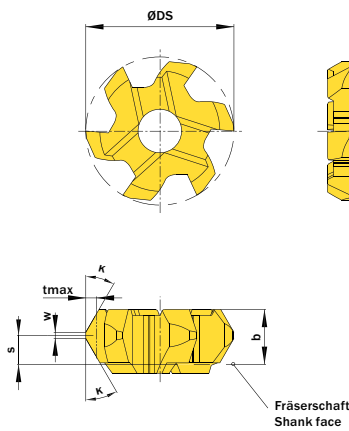


Abbildung zeigt / Drawing shows: P06.3030.02.10 F

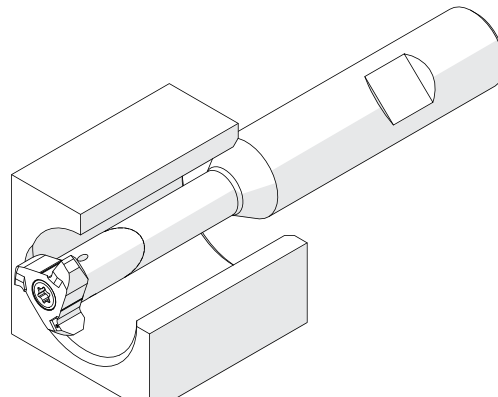


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

K	W	ØDmin	PART NUMBER	WEB-CODE	CUTTING EDGE GROUP	B	S	tmax	DS	AS OF THREAD SIZE	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm				
15°	0.2	10.0	P06.1515.02.10 F	AU7W	G	3.6	1.9	0.35	9.7	6	3	PD06.0/PD07.3	○
20°	0.2	10.0	P06.2020.02.10 F	AU7X	G	3.6	1.9	0.45	9.7	6	3	PD06.0/PD07.3	○
30°	0.2	10.0	P06.3030.02.10 F	AU7Y	G	3.6	1.9	0.7	9.7	6	3	PD06.0/PD07.3	○
45°	0.2	10.0	P06.4545.02.10 F	AU7V	G	3.6	1.9	1.2	9.7	6	3	PD06.0/PD07.3	○

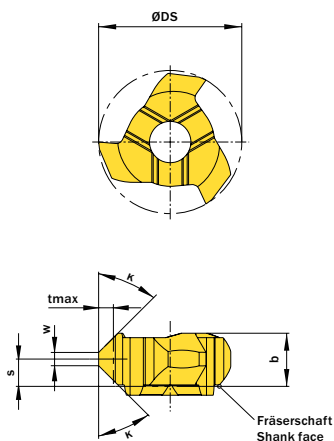


Abbildung zeigt / Drawing shows: P10.4545.35 F

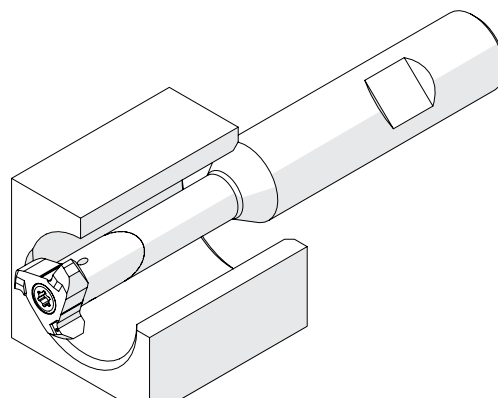


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

K	W	ØDmin	PART NUMBER	WEB-CODE	CUTTING EDGE GROUP	B	S	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm			
45°	0.2	9.6	P09.4545.02 F	AA0U	G	3.3	1.7	1.4	9.3	3	PD06.0	○
45°	0.9	10.0	P10.4545.35 F	AJHX	G	3.5	1.8	1.0	9.7	3	PD06.0/PD07.3	○
45°	1.2	12.0	P12.4545.35 F	ABG0	G	3.5	1.8	0.8	11.7	3	PD06.0/PD07.3	○

FIGURE A

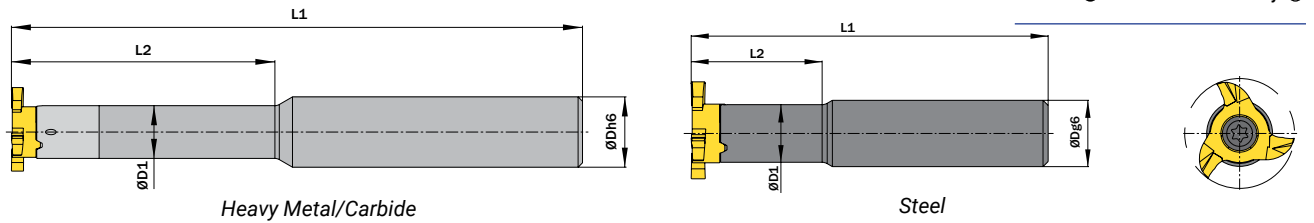
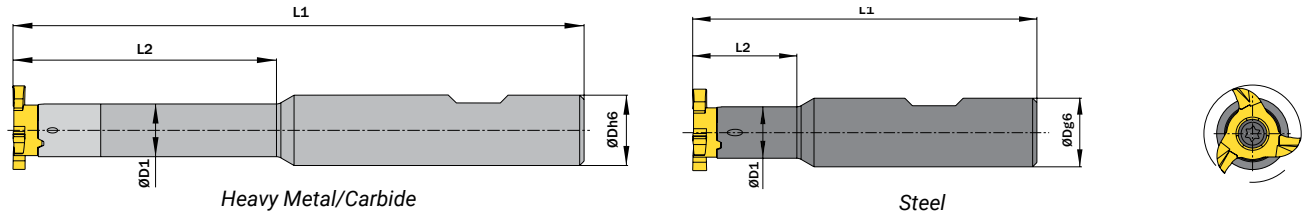


FIGURE B



D	D1	L2	PART NUMBER	WEBCODE	L1	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm			mm					
<b>ØDg6 = 10.0 mm</b>										
10.0	8.0	17.0	S14.1008.17 A ST	AAKP	60.0	S M3.5x10 T10F	T10F	A	SD08.0	●
<b>ØDg6 = 13.0 mm</b>										
13.0	8.0	25.0	S14.1308.25 A ST	AE8U	70.0	S M3.5x10 T10F	T10F	A	SD08.0	○
<b>ØDg6 = 15.875 mm</b>										
15.875**	8.0	16.0	<b>S14.0.625.08.16 A ST</b>	ACT3	80.0	S M3.5x10 T10F	T10F	A	SD08.0	●
<b>ØDg6 = 16.0 mm</b>										
16.0	8.0	16.0	S14.1608.16 A ST	AABY	80.0	S M3.5x10 T10F	T10F	A	SD08.0	●
<b>ØDg6 = 15.875 mm</b>										
15.875**	8.0	16.0	<b>S14.0.625.08.16 B ST</b>	AF5E	80.0	S M3.5x10 T10F	T10F	B	SD08.0	○
<b>ØDg6 = 16.0 mm</b>										
16.0	8.0	16.0	S14.1608.16 B ST	AH01	80.0	S M3.5x10 T10F	T10F	B	SD08.0	○
<b>ØDh6 = 12.0 mm</b>										
12.0	8.0	29.0	S14.1208.29 A HM	AM5T	95.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.0	8.0	42.0	S14.1208.42 A HM	AA5D	110.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.0	8.0	56.0	S14.1208.56 A HM	ADVQ	120.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.0	9.5	42.0	S14.1209.42 A HM	AG09	110.0	S M3.5x10 T10F	T10F	A	SD09.5	○
<b>ØDh6 = 12.7 mm</b>										
12.7	8.0	29.0	<b>S14.0.500.08.29 A HM</b>	ACPS	95.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.7	8.0	42.0	<b>S14.0.500.08.42 A HM</b>	ABPC	110.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.7	8.0	56.0	<b>S14.0.500.08.56 A HM</b>	AMWW	120.0	S M3.5x10 T10F	T10F	A	SD08.0	○
12.7	9.5	42.0	<b>S14.0.500.09.42 A HM</b>	AJQS	110.0	S M3.5x10 T10F	T10F	A	SD09.5	○
<b>ØDh6 = 15.875 mm</b>										
15.875**	9.5	33.0	<b>S14.0.625.09.33 A HM</b>	AH1U	110.0	S M3.5x10 T10F	T10F	A	SD09.5	○
<b>ØDh6 = 16.0 mm</b>										
16.0	9.5	33.0	S14.1609.33 A HM	AJTB	110.0	S M3.5x10 T10F	T10F	A	SD09.5	○
<b>ØDh6 = 12.0 mm</b>										
12.0	8.0	29.0	S14.1208.29 B HM	AG22	95.0	S M3.5x10 T10F	T10F	B	SD08.0	●
12.0	8.0	42.0	S14.1208.42 B HM	ACPK	110.0	S M3.5x10 T10F	T10F	B	SD08.0	○
12.0	8.0	56.0	S14.1208.56 B HM	AC9E	120.0	S M3.5x10 T10F	T10F	B	SD08.0	○
12.0	9.5	42.0	S14.1209.42 B HM	AAKT	110.0	S M3.5x10 T10F	T10F	B	SD09.5	○
<b>ØDh6 = 12.7 mm</b>										
12.7*	8.0	29.0	<b>S14.0.500.08.29 B HM</b>	AMUB	95.0	S M3.5x10 T10F	T10F	B	SD08.0	○
12.7*	8.0	42.0	<b>S14.0.500.08.42 B HM</b>	AJSC	110.0	S M3.5x10 T10F	T10F	B	SD08.0	○
12.7*	8.0	56.0	<b>S14.0.500.08.56 B HM</b>	AMKD	120.0	S M3.5x10 T10F	T10F	B	SD08.0	○
12.7*	9.5	42.0	<b>S14.0.500.09.42 B HM</b>	AB5C	110.0	S M3.5x10 T10F	T10F	B	SD09.5	○
<b>ØDh6 = 15.875 mm</b>										
15.875**	9.5	33.0	<b>S14.0.625.09.33 B HM</b>	AMHU	110.0	S M3.5x10 T10F	T10F	B	SD09.5	○
<b>ØDh6 = 16.0 mm</b>										
16.0	9.5	33.0	S14.1609.33 B HM	AH8J	110.0	S M3.5x10 T10F	T10F	B	SD09.5	○

ST = Steel Shank    HM = Carbide Shank    \* 1/2"    \*\* 5/8"

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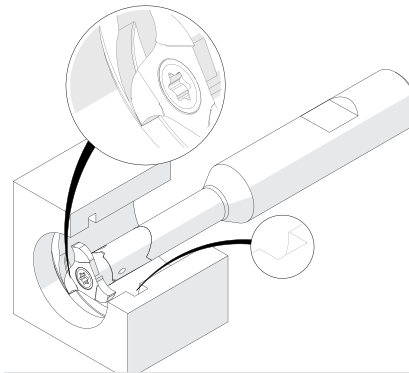
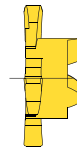
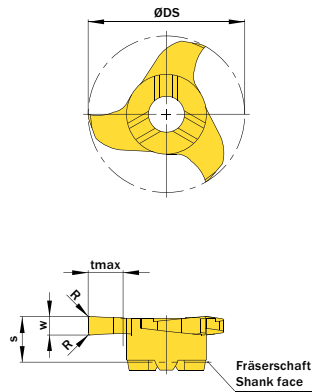


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S16.0200.02 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.0	-	-	14.0	S14.0100.00 G	AVH6	G	2.5	4.5	13.7	3	SD08.0	○
1.0	-	0.1	14.0	S14.0100.01 G	ADNZ	G	2.5	4.5	13.7	3	SD08.0	○
1.17	-	-	14.0	S14.0117.00 G	AB4V	G	2.5	4.5	13.7	3	SD08.0	○
1.42	-	-	14.0	S14.0142.00 G	AAD1	G	2.5	4.5	13.7	3	SD08.0	○
1.5	-	0.2	14.0	S14.0150.02 G	AGJ3	G	2.5	4.5	13.7	3	SD08.0	○
1.57	-	0.2	14.0	S14.0157.02 G	AHP3	G	2.5	4.5	13.7	3	SD08.0	○
2.0	-	0.2	14.0	S14.0200.02 G	AMG7	G	2.5	4.5	13.7	3	SD08.0	○
2.39	-	0.2	14.0	S14.0239.02 G	APC6	G	2.5	4.5	13.7	3	SD08.0	○
2.5	-	0.2	14.0	S14.0250.02 G	ANZT	G	2.5	4.5	13.7	3	SD08.0	○

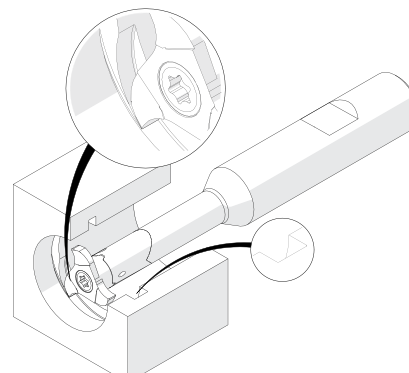
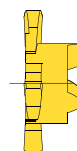
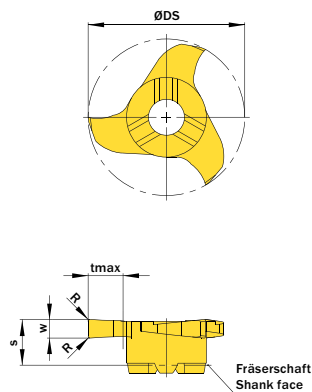


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S16.0200.02 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.17	-	-	16.0	S16.0117.00 G	ABPS	G	3.5	4.5	15.7	3	SD08.0	○
1.42	-	-	16.0	S16.0142.00 G	AFV8	G	3.5	4.5	15.7	3	SD08.0	○
1.5	-	0.2	16.0	S16.0150.02 G	AMBC	G	3.5	4.5	15.7	3	SD08.0	○
1.57	-	0.2	16.0	S16.0157.02 G	ACMX	G	3.5	4.5	15.7	3	SD08.0	○
2.0	-	0.2	16.0	S16.0200.02 G	ABYC	G	3.5	4.5	15.7	3	SD08.0	○
2.39	-	0.2	16.0	S16.0239.02 G	AFN8	G	3.5	4.5	15.7	3	SD08.0	○
2.5	-	0.2	16.0	S16.0250.02 G	AF11	G	3.5	4.5	15.7	3	SD08.0	○

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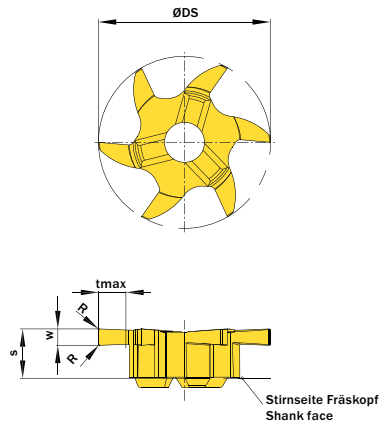


Abbildung zeigt / Drawing shows: S06.0150.02.16 G

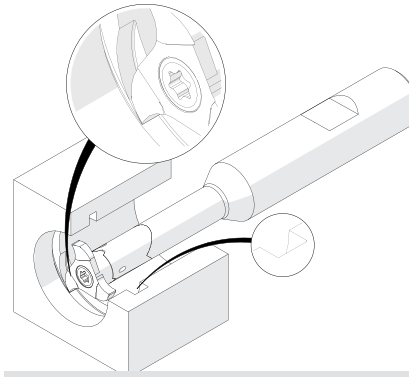


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.5	-	0.2	16.0	S06.0150.02.16 G	AU7Z	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○
2.0	-	0.2	16.0	S06.0200.02.16 G	AU70	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○
2.5	-	0.2	16.0	S06.0250.02.16 G	AU71	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○

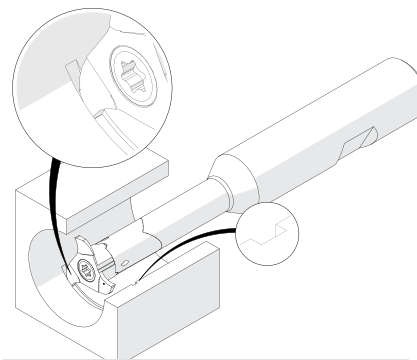
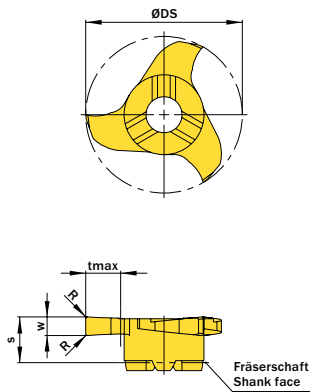


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.6	-	0.1	16.0	S16.0160.01 G	AJ4J	G	3.5	4.5	15.7	3	SD08.0	○

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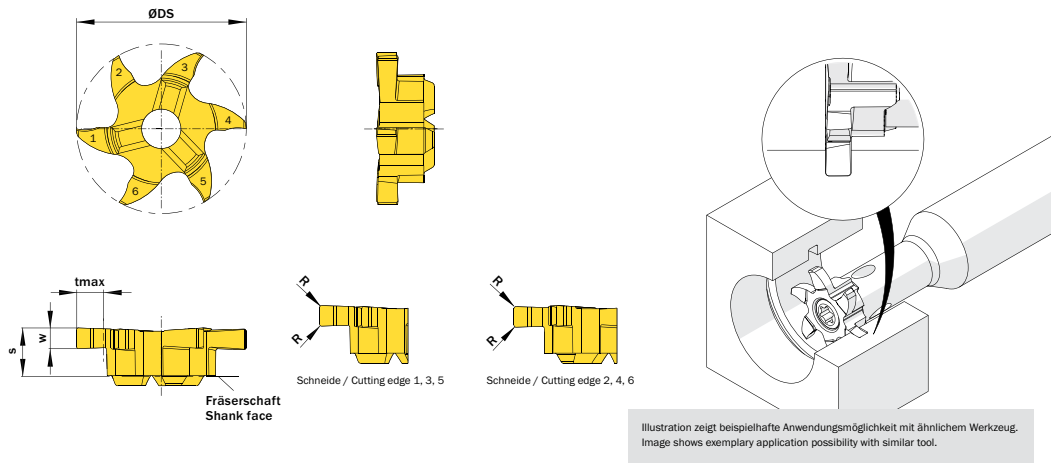


Abbildung zeigt / Drawing shows: S06.0200.020.16 GY

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm					mm	mm	mm			
1.5	-	0.2	16.0	S06.0150.020.16 GY	AYF0	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○
2.0	-	0.2	16.0	S06.0200.020.16 GY	AYF1	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○
2.5	-	0.2	16.0	S06.0250.020.16 GY	AYF2	G	2.5	4.5	15.7	6	SD08.0/SD09.5	○

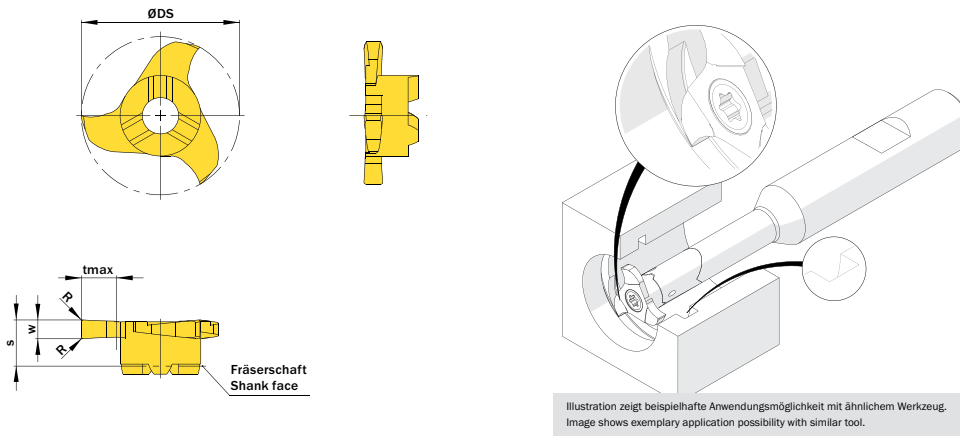


Abbildung zeigt / Drawing shows: S16.0200.42 C

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

ØDmin	W	NOMINAL WIDTH OF GROOVE	R	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	# OF CUTTING EDGES	ØDS	S	tmax	CONNECT-CODE	STOCK
mm	mm	mm						mm	mm	mm		
16.0	1.0	-	-	S16.0100.40 C	AX5H	G	3	15.7	4.5	3.5	SD08.0	○
16.0	2.0	-	0.2	S16.0200.42 C	ANVD	G	3	15.7	4.5	3.5	SD08.0	○
16.0	2.5	-	0.2	S16.0250.42 C	AF2X	G	3	15.7	4.5	3.5	SD08.0	○

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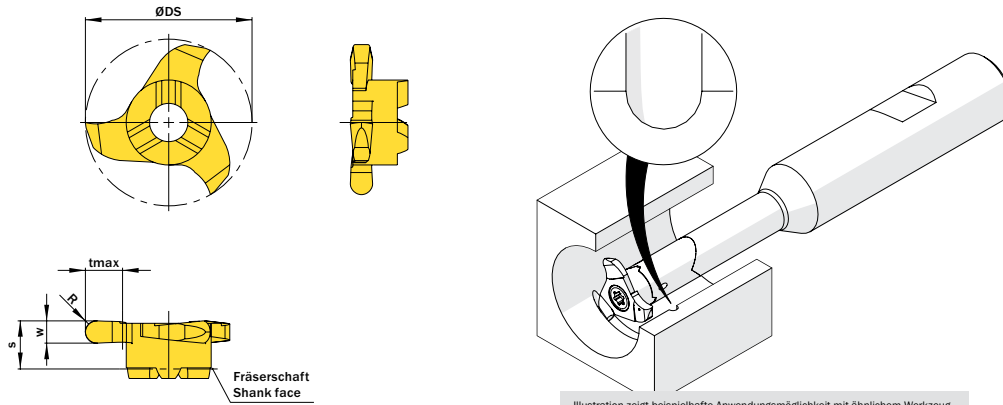


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S16.0011.22 V

R	W	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm			
1.1	2.2	16.0	S16.0011.22 V	ACJP	G	3.5	4.6	15.7	3	SD08.0	○

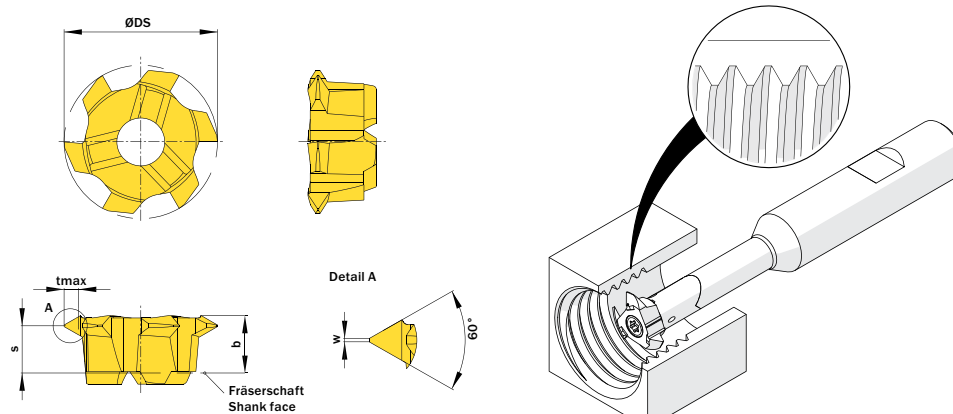


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S06.0720.01.12 M

MIN THREAD SIZE	MIN PITCH	NOMINAL WIDTH OF GROOVE	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	B	S	W	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm	mm			
M16	1.0	1.75	S06.0510.01.12 M	AU72	G	4.2	3.4	0.13	1.08	12.0	6	SD08.0/SD09.5	○
M16	1.0	2.0	S06.0720.01.12 M	AU73	G	4.2	3.6	0.13	1.25	12.3	6	SD08.0/SD09.5	○
M18	1.5	2.75	S06.0815.01.13 M	AU74	G	4.2	3.0	0.19	1.67	13.2	6	SD08.0/SD09.5	○
M18	2.0	3.0	S06.2530.01.13 M	AU75	G	4.2	2.8	0.25	1.78	13.3	6	SD08.0/SD09.5	○



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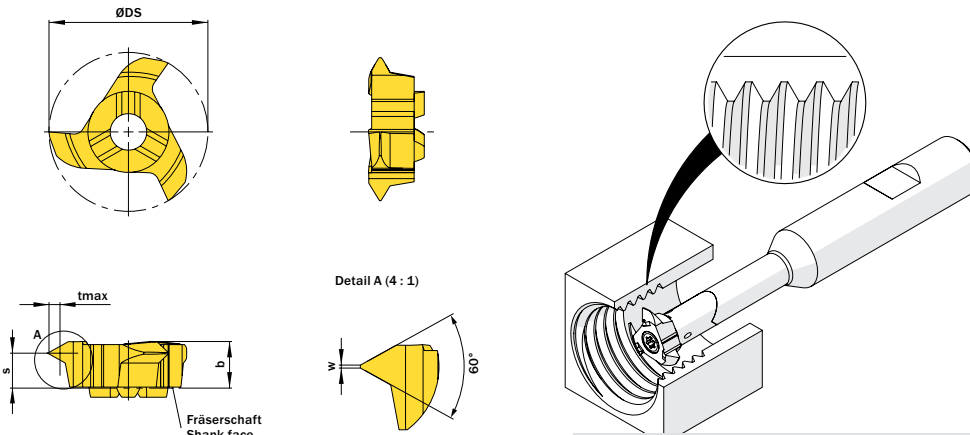


Abbildung zeigt / Drawing shows: S16.0720.01 M

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

MIN THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm	mm			
M18	1.0	1.75	S16.0510.01 M	AA4J	G	4.6	3.8	0.12	1.08	15.7	3	SD08.0/SD09.5	○
M18	1.0	2.0	S16.0720.01 M	AJE4	G	4.6	3.5	0.12	1.25	15.7	3	SD08.0/SD09.5	○
M20	1.5	2.75	S16.0815.01 M	AGS8	G	4.6	3.5	0.19	1.67	15.7	3	SD08.0/SD09.5	○
M22	2.5	3.0	S16.2530.01 M	AEES	G	4.6	3.4	0.31	1.78	15.7	3	SD08.0/SD09.5	○

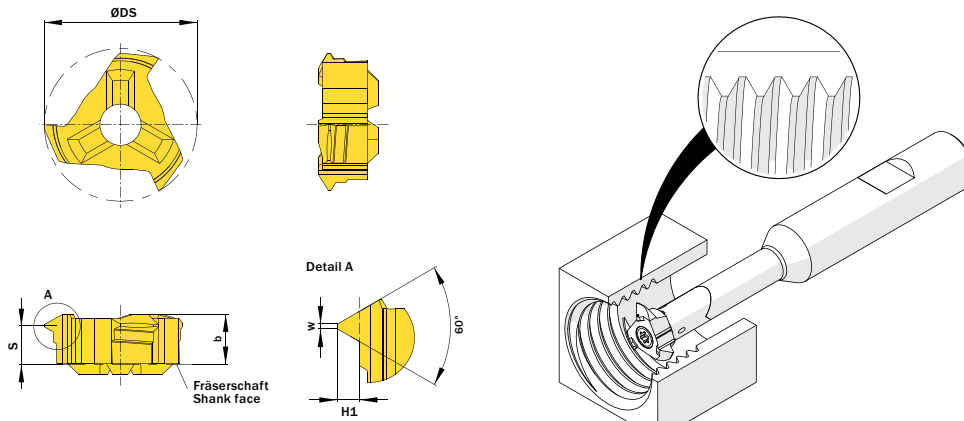


Abbildung zeigt / Drawing shows: S14.0815.02 M

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	# OF CUTTING EDGES	B	ØDS	S	W	CONNECTCODE	STOCK
mm	mm				mm	MM	mm	mm	mm		
0.55	1.0	S14.0510.02 M	AXXY	G	3	4.5	13.7	3.6	0.13	SD08.0/SD09.5	○
0.81	1.5	S14.0815.02 M	AXXZ	G	3	4.5	13.7	3.5	0.19	SD08.0/SD09.5	○
0.95	1.75	S14.0917.02 M	AXX0	G	3	4.5	13.7	3.4	0.2	SD08.0/SD09.5	○
1.08	2.0	S14.1020.02 M	AXX1	G	3	4.5	13.7	3.3	0.25	SD08.0/SD09.5	○
1.35	2.5	S14.1325.02 M	AXX2	G	3	4.5	13.7	3.1	0.31	SD08.0/SD09.5	○
1.62	3.0	S14.1630.02 M	AXX3	G	3	4.5	13.7	2.9	0.37	SD08.0/SD09.5	○

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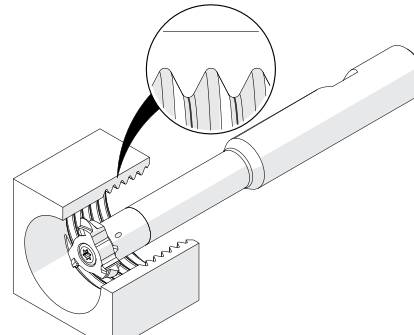
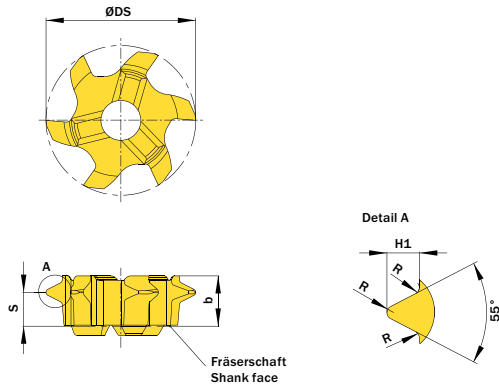


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S06.1423.11.14 M

H1	MIN PITCH	THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	R	b	s	ØDS	MIN THREAD SIZE	ALT. AB	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm		mm			
1.16	1.81	14	S06.1118.14.14 M	AVKB	G	0.24	4.6	3.3	13.7	G 1/2"	17.5	6	SD08.0/SD09.5	○
1.48	2.31	11	S06.1423.11.14 M	AVKO	G	0.31	4.6	3.1	13.7	G 1"	18.8	6	SD08.0/SD09.5	○

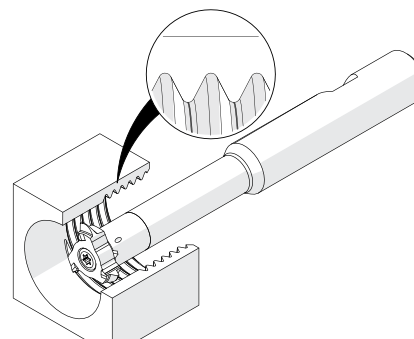
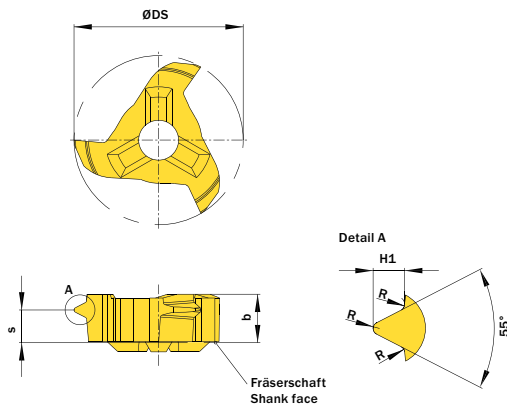


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S16.1118.14 M

H1	MIN PITCH	THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	R	b	s	ØDS	MIN THREAD SIZE	ALT. AB	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm		mm			
1.17	1.814	14	S16.1118.14 M	AT8A	G	0.24	4.5	3.0	15.7	G 5/8"	22.0	3	SD08.0/SD09.5	○
1.48	2.31	11	S16.1423.11 M	AT79	G	0.31	4.5	2.8	15.7	G 1"	23.5	3	SD08.0/SD09.5	○

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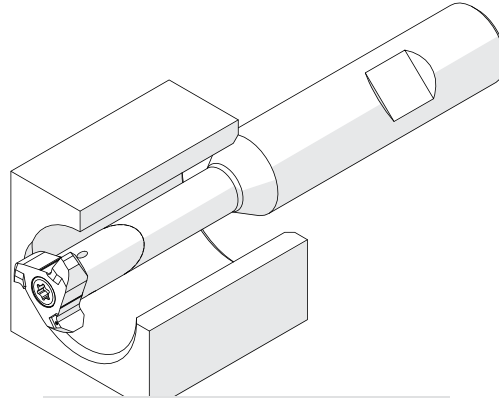
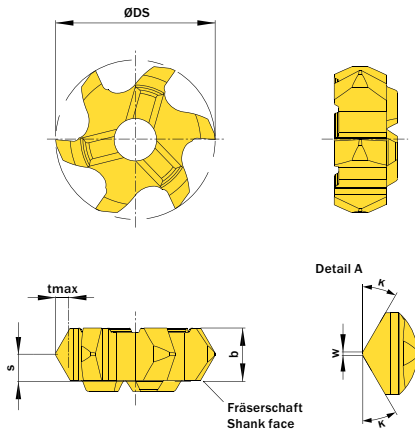


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S06.3030.02.14 F

K	W	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm			
15°	0.2	14.0	S06.1515.02.14 F	AU77	G	4.6	2.4	0.35	13.7	6	SD08.0/SD09.5	○
20°	0.2	14.0	S06.2020.02.14 F	AU78	G	4.6	2.4	0.45	13.7	6	SD08.0/SD09.5	○
30°	0.2	14.0	S06.3030.02.14 F	AU79	G	4.6	2.4	0.7	13.7	6	SD08.0/SD09.5	○
45°	0.2	14.0	S06.4545.02.14 F	AU76	G	4.6	2.4	1.8	13.7	6	SD08.0/SD09.5	○

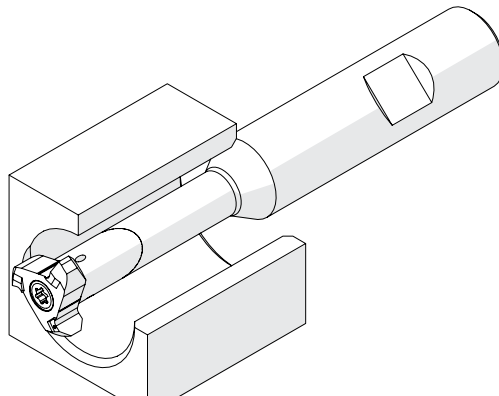
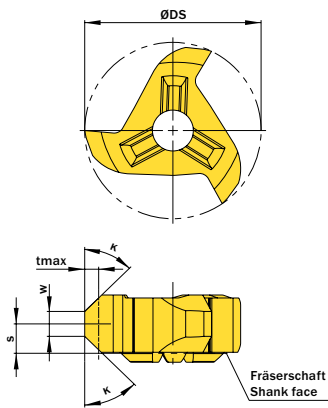


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S16.4545.58 F

K	W	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	b	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm			
45°	0.2	16.0	S16.4545.02 F	AF2U	G	1.8	4.5	2.3	15.7	3	SD08.0/SD09.5	○
45°	1.4	16.0	S16.4545.45 F	AH98	G	1.8	4.5	2.3	15.7	3	SD08.0/SD09.5	○

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FIGURE A

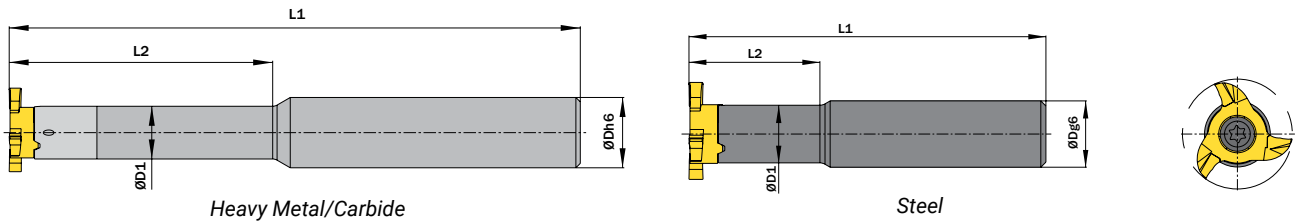
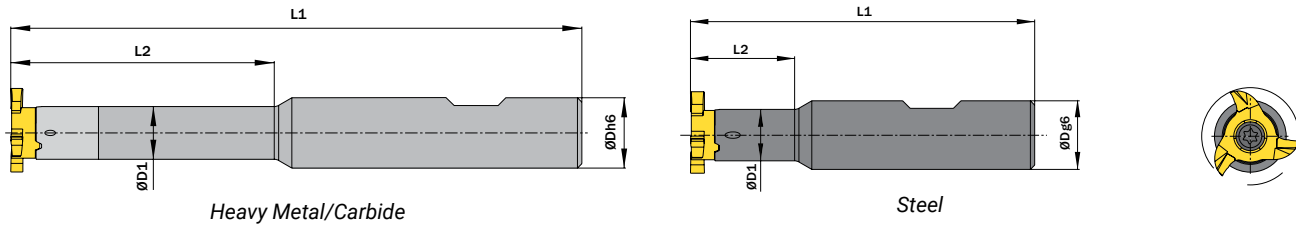


FIGURE B



INCH SHANK										
ØDg6	ØD1	L2	PART NUMBER	WEBCODE	L2	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm								
<b>ØDg6 = 12.7mm</b>										
12.7*	9.0	32.0	<b>U18.0.500.09.32 A HM</b>	AK8V	100.0	U M4x12 T15F	T15F	A	UD09.0	○
12.7*	9.0	45.0	<b>U18.0.500.09.45 A HM</b>	AH50	100.0	U M4x12 T15F	T15F	A	UD09.0	○
12.7*	9.0	64.0	<b>U18.0.500.09.64 A HM</b>	AD8F	120.0	U M4x12 T15F	T15F	A	UD09.0	○
12.7*	9.0	32.0	<b>U18.0.500.09.32 B HM</b>	AMW6	100.0	U M4x12 T15F	T15F	B	UD09.0	○
12.7*	9.0	45.0	<b>U18.0.500.09.45 B HM</b>	AEW9	100.0	U M4x12 T15F	T15F	B	UD09.0	○
12.7*	9.0	64.0	<b>U18.0.500.09.64 B HM</b>	AEYX	120.0	U M4x12 T15F	T15F	B	UD09.0	○
<b>ØDg6 = 15.875m</b>										
15.875**	9.0	18.0	<b>U18.0.625.09.18 A ST</b>	AN7U	80.0	U M4x12 T15F	T15F	A	UD09.0	●
15.875**	9.0	18.0	<b>U18.0.625.09.18 B ST</b>	AFHD	80.0	U M4x12 T15F	T15F	B	UD09.0	○
15.875**	9.0	25.0	<b>U18.0.625.09.25 A HM</b>	AE8X	93.0	U M4x12 T15F	T15F	A	UD09.0	○
15.875**	9.0	32.0	<b>U18.0.625.09.32 A HM</b>	ACQZ	100.0	U M4x12 T15F	T15F	A	UD09.0	○
15.875**	9.0	45.0	<b>U18.0.625.09.45 A HM</b>	AH0T	100.0	U M4x12 T15F	T15F	A	UD09.0	○
15.875**	9.0	64.0	<b>U18.0.625.09.64 A HM</b>	AK2U	130.0	U M4x12 T15F	T15F	A	UD09.0	○
15.875**	13.0	64.0	<b>U18.0.625.13.64 A HM</b>	AHQK	110.0	U M4x12 T15F	T15F	A	UD13.0	○
15.875**	13.0	66.0	<b>U18.0.625.13.66 A HM</b>	ADZE	130.0	U M4x12 T15F	T15F	A	UD13.0	○
15.875**	9.0	25.0	<b>U18.0.625.09.25 B HM</b>	AET2	93.0	U M4x12 T15F	T15F	B	UD09.0	○
15.875**	9.0	32.0	<b>U18.0.625.09.32 B HM</b>	ACQM	100.0	U M4x12 T15F	T15F	B	UD09.0	○
15.875**	9.0	45.0	<b>U18.0.625.09.45 B HM</b>	AD9P	110.0	U M4x12 T15F	T15F	B	UD09.0	○
15.875**	9.0	64.0	<b>U18.0.625.09.64 B HM</b>	AE40	130.0	U M4x12 T15F	T15F	B	UD09.0	○
15.875**	13.0	64.0	<b>U18.0.625.13.64 B HM</b>	APQG	110.0	U M4x12 T15F	T15F	B	UD13.0	○
15.875**	13.0	66.0	<b>U18.0.625.13.66 B HM</b>	AHS9	130.0	U M4x12 T15F	T15F	B	UD13.0	○

ST = Steel Shank    HM = Carbide Shank    \* 1/2"    \*\* 5/8"

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FIGURE A

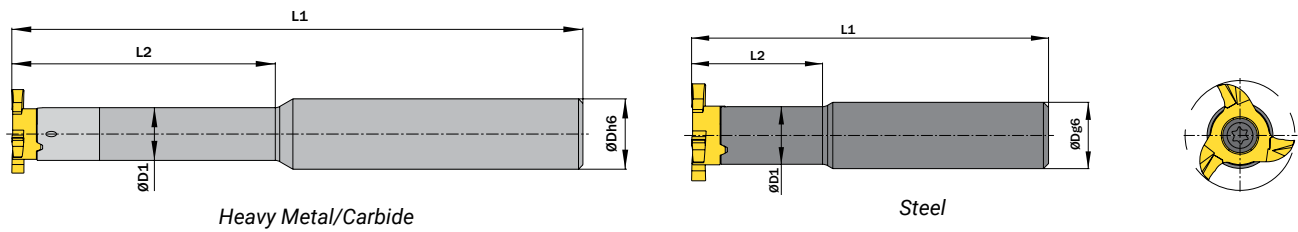
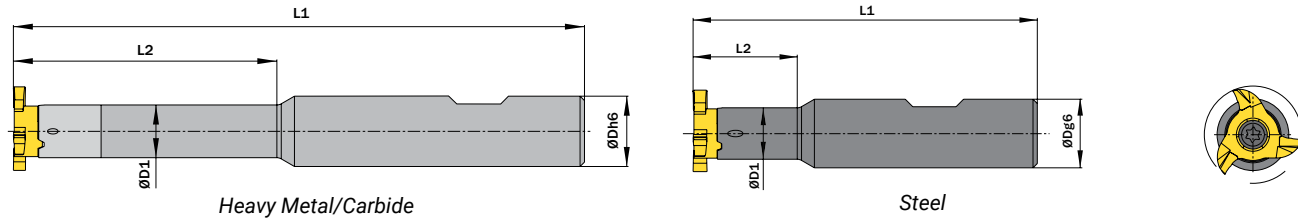


FIGURE B



METRIC SHANK										
ØDg6	ØD1	L2	PART NUMBER	WEBCODE	L2	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm			mm					
<b>ØDg6 = 10mm</b>										
10.0	9.0	17.0	U18.1009.17 A ST	AMIT	60.0	U M4x12 T15F	T15F	A	UD09.0	○
<b>ØDg6 = 12mm</b>										
12.0	9.0	18.0	U18.1209.18 A ST	AV6D	65.0	U M4x12 T15F	T15F	A	UD09.0	○
12.0	9.0	18.0	U18.1209.18 B ST	AV6E	80.0	U M4x12 T15F	T15F	B	UD09.0	○
12.0	9.0	32.0	U18.1209.32 A HM	AK8V	100.0	U M4x12 T15F	T15F	A	UD09.0	○
12.0	9.0	45.0	U18.1209.45 A HM	AH50	100.0	U M4x12 T15F	T15F	A	UD09.0	○
12.0	9.0	64.0	U18.1209.64 A HM	AD8F	120.0	U M4x12 T15F	T15F	A	UD09.0	○
12.0	9.0	32.0	U18.1209.32 B HM	AHQG	100.0	U M4x12 T15F	T15F	B	UD09.0	○
12.0	9.0	45.0	U18.1209.45 B HM	AGXG	100.0	U M4x12 T15F	T15F	B	UD09.0	○
12.0	9.0	64.0	U18.1209.64 B HM	AC32	120.0	U M4x12 T15F	T15F	B	UD09.0	○
<b>ØDg6 = 13mm</b>										
13.0	9.0	25.0	U18.1309.25 A ST	AKZ5	70.0	U M4x12 T15F	T15F	A	UD09.0	○
<b>ØDg6 = 16mm</b>										
16.0	9.0	18.0	U18.1609.18 A ST	AGU5	80.0	U M4x12 T15F	T15F	A	UD09.0	○
16.0	9.0	18.0	U18.1609.18 B ST	ABP7	80.0	U M4x12 T15F	T15F	B	UD09.0	○
16.0	9.0	25.0	U18.1609.25 A HM	AAD3	93.0	U M4x12 T15F	T15F	A	UD09.0	○
16.0	9.0	32.0	U18.1609.32 A HM	AAKX	100.0	U M4x12 T15F	T15F	A	UD09.0	○
16.0	9.0	45.0	U18.1609.45 A HM	AMCV	110.0	U M4x12 T15F	T15F	A	UD09.0	○
16.0	9.0	64.0	U18.1609.64 A HM	ANX9	130.0	U M4x12 T15F	T15F	A	UD09.0	○
16.0	13.0	64.0	U18.1613.64 A HM	AFVT	110.0	U M4x12 T15F	T15F	A	UD13.0	○
16.0	13.0	66.0	U18.1613.66 A HM	AD9W	130.0	U M4x12 T15F	T15F	A	UD13.0	○
16.0	9.0	25.0	U18.1609.25 B HM	AJ83	93.0	U M4x12 T15F	T15F	B	UD09.0	○
16.0	9.0	32.0	U18.1609.32 B HM	AH75	100.0	U M4x12 T15F	T15F	B	UD09.0	○
16.0	9.0	45.0	U18.1609.45 B HM	AA3N	110.0	U M4x12 T15F	T15F	B	UD09.0	○
16.0	9.0	64.0	U18.1609.64 B HM	ACGX	130.0	U M4x12 T15F	T15F	B	UD09.0	○
16.0	12.0	45.0	U18.1612.45 B HM	ADG9	110.0	U M4x12 T15F	T15F	B	UD12.0	○
16.0	13.0	64.0	U18.1613.64 B HM	AMT0	110.0	U M4x12 T15F	T15F	B	UD13.0	○
16.0	13.0	66.0	U18.1613.66 B HM	AJK6	130.0	U M4x12 T15F	T15F	B	UD13.0	○

ST = Steel Shank      HM = Carbide Shank

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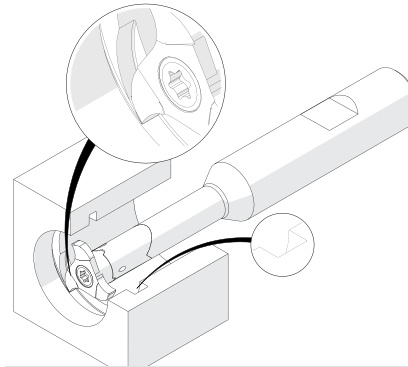
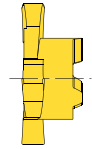
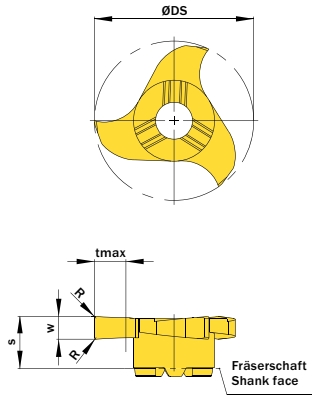
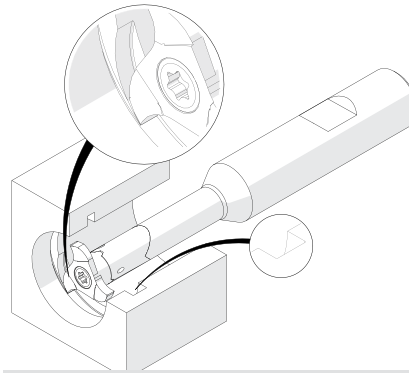
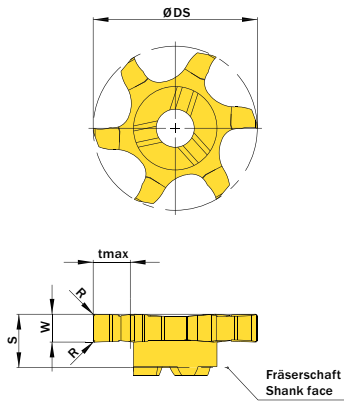


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U18.0250.02 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm					mm	mm	mm			
<b>ØDmin = 18.0mm</b>												
0.74	0.7	-	18.0	U18.0070.00 Z	AEX1	H	1.5	5.8	17.7	3	UD09.0/UD12.0/UD13.0	●
0.84	0.8	-	18.0	U18.0080.00 Z	ABTV	H	1.7	5.8	17.7	3	UD09.0/UD12.0/UD13.0	●
0.94	0.9	-	18.0	U18.0090.00 Z	AGH7	H	1.9	5.8	17.7	3	UD09.0/UD12.0/UD13.0	●
1.21	1.1	-	18.0	U18.0110.00 G	AEQD	G	3.5	5.8	17.7	3	UD09.0	●
1.41	1.3	0.1	18.0	U18.0130.01 G	AG1P	G	3.5	5.8	17.7	3	UD09.0	●
1.71	1.6	0.1	18.0	U18.0160.01 G	AKKZ	G	3.5	5.8	17.7	3	UD09.0	●
1.17	-	-	18.0	U18.0117.00 G	AAU0	G	3.5	5.8	17.7	3	UD09.0	●
1.42	-	-	18.0	U18.0142.00 G	ANB1	G	3.5	5.8	17.7	3	UD09.0	●
1.5	-	0.2	18.0	U18.0150.02 G	AMW2	G	3.5	5.8	17.7	3	UD09.0	●
1.55	-	0.2	18.0	U18.0157.02 G	AJ80	G	3.5	5.8	17.7	3	UD09.0	●
2.0	-	0.2	18.0	U18.0200.02 G	AJXK	G	3.5	5.8	17.7	3	UD09.0	●
2.39	-	0.2	18.0	U18.0239.02 G	AG6E	G	3.5	5.8	17.7	3	UD09.0	●
2.5	-	0.2	18.0	U18.0250.02 G	ABXH	G	3.5	5.8	17.7	3	UD09.0	●
3.0	-	0.2	18.0	U18.0300.02 G	ADJZ	G	3.5	5.8	17.7	3	UD09.0	●
3.18	-	0.2	18.0	U18.0318.02 G	AJZU	G	3.5	5.8	17.7	3	UD09.0	●
4.0	-	0.2	18.0	U18.0400.02 G	AJUU	G	3.5	5.8	17.7	3	UD09.0	●
<b>ØDmin = 20.0mm</b>												
1.5	-	0.2	20.0	U20.0150.02 G	AX11	G	4.5	5.8	19.7	3	UD09.0	○
2.0	-	0.2	20.0	U20.0200.02 G	AX13	G	4.5	5.8	19.7	3	UD09.0	○
2.5	-	0.2	20.0	U20.0250.02 G	AX12	G	4.5	5.8	19.7	3	UD09.0	○



In-Stock ● Two Week Delivery ○

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U06.0300.020.20 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
<b>ØDmin = 18.0mm</b>												
1.5	-	0.1	18.0	U06.0150.010.18 G	AN3P	G	4	5.8	17.7	6	UD09.0	○
2.0	-	0.2	18.0	U06.0200.020.18 G	AD6K	G	4	5.8	17.7	6	UD09.0	○
2.5	-	0.2	18.0	U06.0250.020.18 G	AB6C	G	4	5.8	17.7	6	UD09.0	○
3.0	-	0.2	18.0	U06.0300.020.18 G	AE37	G	4	5.8	17.7	6	UD09.0	○
<b>ØDmin = 20.0mm</b>												
1.5	-	0.1	20.0	U06.0150.010.20 G	AGE9	G	5	5.8	19.7	6	UD09.0	●
2.0	-	0.2	20.0	U06.0200.020.20 G	AJ2T	G	5	5.8	19.7	6	UD09.0	●
2.5	-	0.2	20.0	U06.0250.020.20 G	ANY1	G	5	5.8	19.7	6	UD09.0	○
3.0	-	0.2	20.0	U06.0300.020.20 G	ACAZ	G	5	5.8	19.7	6	UD09.0	○

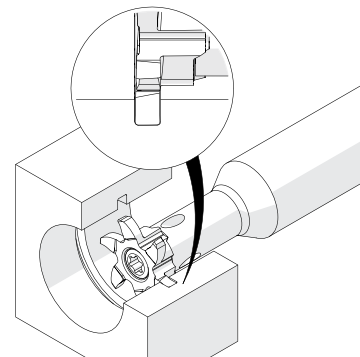
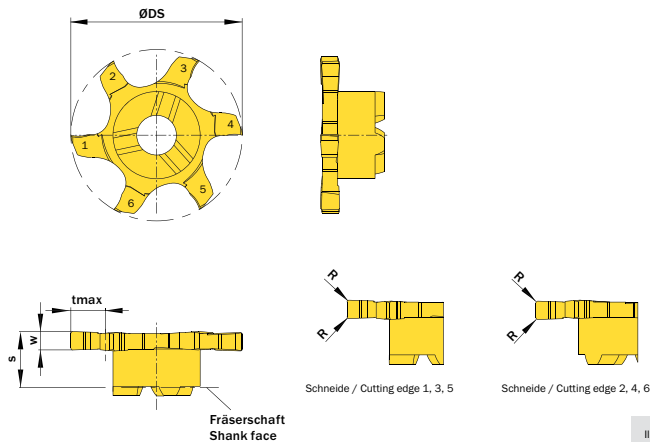


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U06.0250.020.18 GY

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
<b>ØDmin = 18.0mm</b>												
2.0	-	0.2	18.0	U06.0200.020.18 GY	AYFP	G	4	5.8	17.7	6	UD09.0	○
2.5	-	0.2	18.0	U06.0250.020.18 GY	AYFS	G	4	5.8	17.7	6	UD09.0	○
3.0	-	0.2	18.0	U06.0300.020.18 GY	AYFT	G	4	5.8	17.7	6	UD09.0	○
<b>ØDmin = 20.0mm</b>												
2.0	-	0.2	20.0	U06.0200.020.20 GY	AYFW	G	5	5.8	19.7	6	UD09.0	○
2.5	-	0.2	20.0	U06.0250.020.20 GY	AYFV	G	5	5.8	19.7	6	UD09.0	○
3.0	-	0.2	20.0	U06.0300.020.20 GY	AYFU	G	5	5.8	19.7	6	UD09.0	○

● Two Week Delivery ○

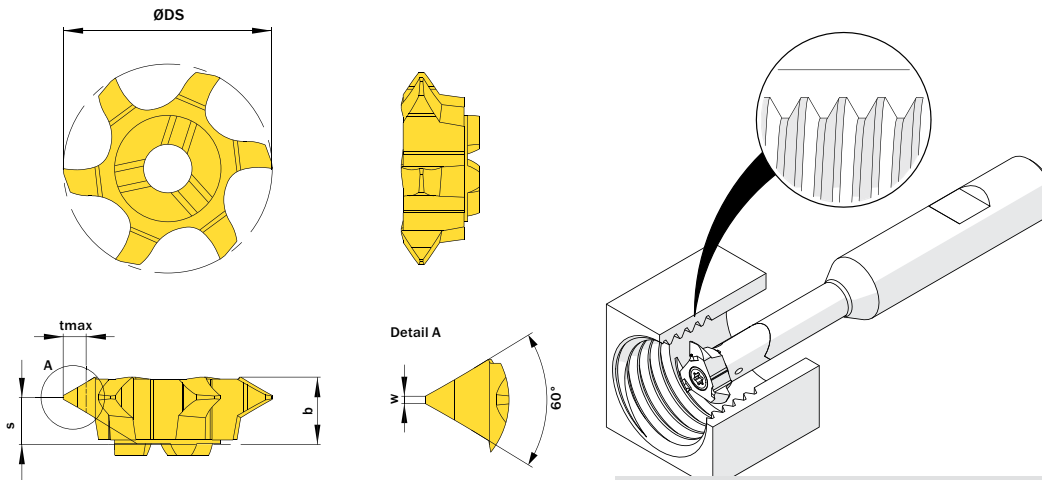


Abbildung zeigt / Drawing shows: U06.2535.01.18 M

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

MIN THREAD SIZE	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	H1	ØDS	w	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm												
mm												
M22	1.5	U06.0815.02.18 M	ASZ9	G	5.85	5.0	0.81	17.7	0.19	6	UD09.0/UD12.0/UD13.0	○
M22	2.0	U06.1020.02.18 M	AS0G	G	5.85	4.8	1.083	17.7	0.25	6	UD09.0/UD12.0/UD13.0	○
M27	3.0	U06.1630.02.18 M	AS0J	G	5.85	4.6	1.62	17.7	0.38	6	UD09.0/UD12.0/UD13.0	○
M27	3.5	U06.1835.02.18 M	AS0H	G	5.85	4.0	1.89	17.7	0.44	6	UD09.0/UD12.0/UD13.0	○

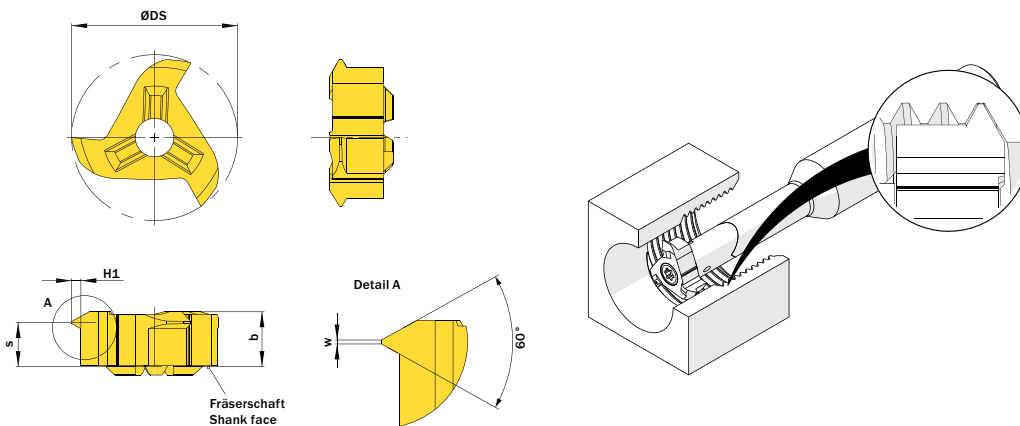


Abbildung zeigt / Drawing shows: U18.0917.02 M

MIN THREAD SIZE	H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm		mm										
mm		mm										
M22	0.81	1.5	U18.0815.02 M	AHK3	G	5.85	4.8	0.18	17.7	3	UD09.0/UD12.0/UD13.0	○
M22	0.95	1.75	U18.0917.02 M	AK07	G	5.85	4.7	0.2	17.7	3	UD09.0/UD12.0/UD13.0	○
M22	1.08	2.0	U18.1020.02 M	AE0E	G	5.85	4.6	0.25	17.7	3	UD09.0/UD12.0/UD13.0	○
M24	1.35	2.5	U18.1325.02 M	AJY6	G	5.85	4.4	0.31	17.7	3	UD09.0/UD12.0/UD13.0	○
M27	1.62	3.0	U18.1630.02 M	AJYF	G	5.85	4.3	0.37	17.7	3	UD09.0/UD12.0/UD13.0	○
M27	1.89	3.5	U18.1835.02 M	AN9W	G	5.85	4.0	0.43	17.7	3	UD09.0/UD12.0/UD13.0	○



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SIMTEK

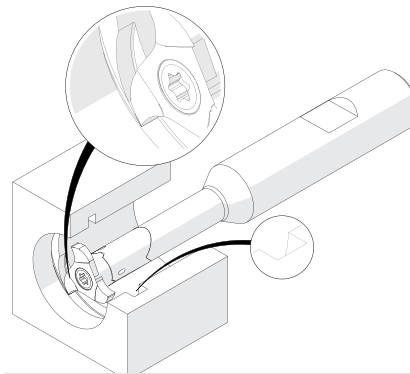
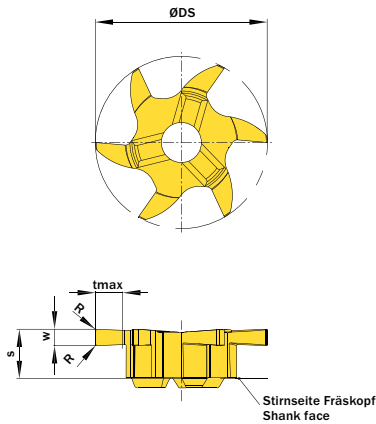


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: S06.0150.02.16 G

MIN THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	tmax	ØDS	# OF CUTTING EDGES	CONNECT- CODE	STOCK
						mm	mm	mm	MM	mm			
M22	1.0	2.0	U06.0720.01.18 M	AE99	G	5.85	5.0	0.12	1.19	17.7	6	UD09.0/UD12.0/UD13.0	○
M24	2.0	3.5	U06.2535.01.18 M	APNP	G	5.85	4.3	0.25	2.06	17.7	6	UD09.0/UD12.0	○

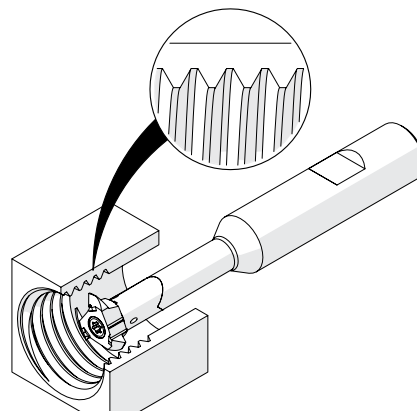
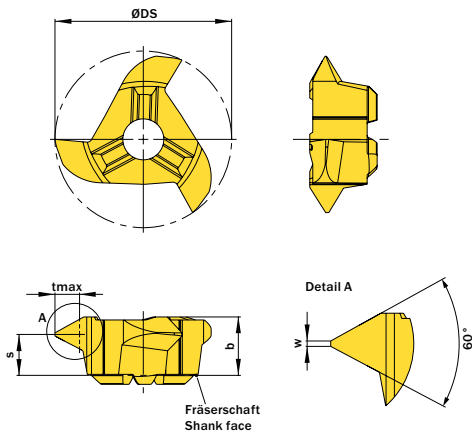


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U18.2535.01 M

MIN THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	tmax	ØDS	# OF CUTTING EDGES	CONNECT- CODE	STOCK
						mm	mm	mm	MM	mm			
M22	1.0	1.75	U18.0510.01 M	ADHC	G	5.85	5.0	0.12	1.03	17.7	3	UD09.0/UD12.0/UD13.0	○
M22	1.0	2.0	U18.0720.01 M	AA8M	G	5.85	4.7	0.12	1.19	17.7	3	UD09.0/UD12.0/UD13.0	○
M22	1.5	2.75	U18.0815.01 M	AM2Q	G	5.85	4.6	0.19	1.62	17.7	3	UD09.0/UD12.0/UD13.0	○
M24	2.0	3.75	U18.1020.01 M	AN1S	G	5.85	4.2	0.25	2.22	17.7	3	UD09.0/UD12.0/UD13.0	○
M24	2.0	3.0	U18.1325.01 M	AAUQ	G	5.85	4.4	0.25	1.73	17.7	3	UD09.0/UD12.0/UD13.0	○
M24	2.5	5.0	U18.1630.01 M	AH9G	G	5.85	3.8	0.31	2.98	17.7	3	UD09.0	○
M24	3.0	5.5	U18.1835.01 M	ADW6	G	5.85	3.6	0.38	3.25	17.7	3	UD09.0	○
M24	2.0	3.5	U18.2535.01 M	APTV	G	5.85	4.2	0.25	2.06	17.7	3	UD09.0/UD12.0	○

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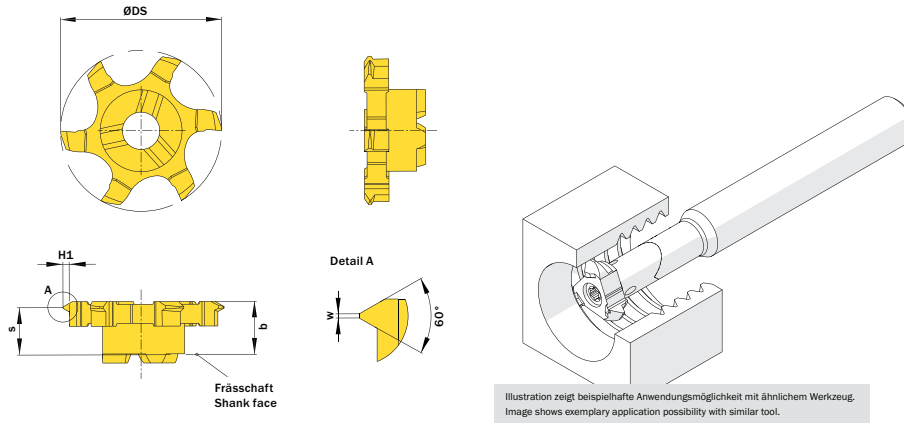


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U06.UN20.02.18 M

THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	H1	S	ØDS	w	# OF CUTTING EDGES	CONNECT- CODE	STOCK
				mm	mm	mm	mm				
8	U06.UN08.02.18 M	AS0V	G	5.85	1.72	4.4	17.7	0.4	6	UD09.0/UD12.0/UD13.0	○
10	U06.UN10.02.18 M	AS0U	G	5.85	1.38	4.8	17.7	0.32	6	UD09.0/UD12.0/UD13.0	○
11	U06.UN11.02.18 M	AS0T	G	5.85	1.25	4.8	17.7	0.29	6	UD09.0/UD12.0/UD13.0	○
12	U06.UN12.02.18 M	AS0S	G	5.85	1.15	4.8	17.7	0.27	6	UD09.0/UD12.0/UD13.0	○
14	U06.UN14.02.18 M	AS0Q	G	5.85	0.98	5.0	17.7	0.23	6	UD09.0/UD12.0/UD13.0	○
16	U06.UN16.02.18 M	AS0P	G	5.85	0.86	5.0	17.7	0.2	6	UD09.0/UD12.0/UD13.0	○
18	U06.UN18.02.18 M	AS0N	G	5.85	0.76	5.0	17.7	0.18	6	UD09.0/UD12.0/UD13.0	○
20	U06.UN20.02.18 M	AS0M	G	5.85	0.69	5.2	17.7	0.16	6	UD09.0/UD12.0/UD13.0	○
24	U06.UN24.02.18 M	AS0K	G	5.85	0.57	5.2	17.7	0.13	6	UD09.0/UD12.0/UD13.0	○

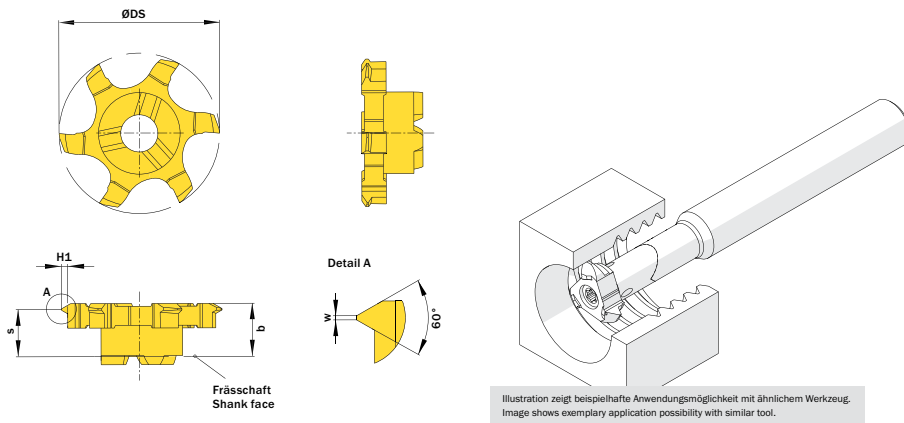
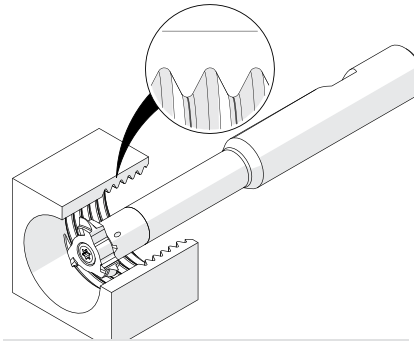
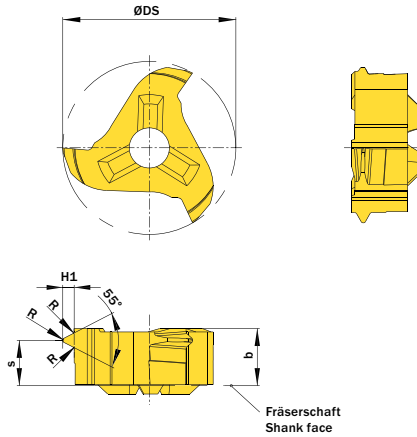


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U06.UN20.02.18 M

THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	H1	S	ØDS	w	# OF CUTTING EDGES	CONNECT- CODE	STOCK
				mm	mm	mm	mm				
6	U18.UN06.02 M	AS7Q	G	5.85	2.29	4.2	17.7	0.53	3	UD09.0/UD12.0/UD13.0	○
8	U18.UN08.02 M	AS04	G	5.85	1.718	4.4	17.7	0.4	3	UD09.0/UD12.0/UD13.0	○
10	U18.UN10.02 M	AS03	G	5.85	1.375	4.6	17.7	0.32	3	UD09.0/UD12.0/UD13.0	○
11	U18.UN11.02 M	AS02	G	5.85	1.25	4.8	17.7	0.29	3	UD09.0/UD12.0/UD13.0	○
12	U18.UN12.02 M	AS01	G	5.85	1.146	4.8	17.7	0.27	3	UD09.0/UD12.0/UD13.0	○
14	U18.UN14.02 M	AS00	G	5.85	0.981	5.0	17.7	0.23	3	UD09.0/UD12.0/UD13.0	○
16	U18.UN16.02 M	AS0Z	G	5.85	0.859	5.0	17.7	0.2	3	UD09.0/UD12.0/UD13.0	○
18	U18.UN18.02 M	AS0Y	G	5.85	0.763	5.0	17.7	0.18	3	UD09.0/UD12.0/UD13.0	○
20	U18.UN20.02 M	AS0X	G	5.85	0.687	5.2	17.7	0.16	3	UD09.0/UD12.0/UD13.0	○
24	U18.UN24.02 M	AS0W	G	5.85	0.572	5.2	17.7	0.13	3	UD09.0/UD12.0/UD13.0	○



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Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U18.BS14.02 M

THREADS/ INCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	R	S	H1	ØDS	MIN THREAD SIZE	ALT. AB	# OF CUTTING EDGES	CONNECT- CODE	STOCK
				mm	mm	mm	mm						
11	U18.BS11.02 M	AS07	G	5.85	0.31	4.4	1.48	17.7	G 1"	25.6	3	UD09.0/UD12.0/UD13.0	○
14	U18.BS14.02 M	AS06	G	5.85	0.24	4.6	1.16	17.7	G 3/4"	24.0	3	UD09.0/UD12.0/UD13.0	○
19	U18.BS19.02 M	AS05	G	5.85	0.18	4.9	0.856	17.7	-	22.8	3	UD09.0/UD12.0/UD13.0	○

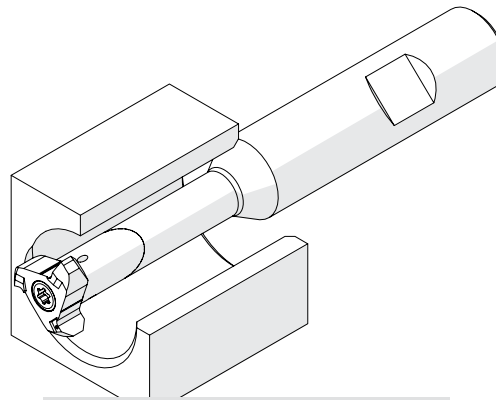
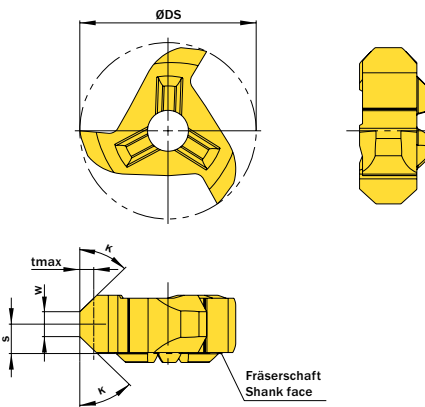


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U18.4545.58 F

K	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	w	# OF CUTTING EDGES	CONNECT- CODE	STOCK
	mm				mm	mm	mm				
45°	15.0	U15.4545.58 F	AGQF	G	2.5	3.0	14.7	0.2	3	UD09.0	○
45°	18.0	U18.4545.20 F	AHA2	G	2.5	3.0	17.7	0.2	3	UD09.0/UD12.0/UD13.0	○
45°	18.0	U18.4545.58 F	ACKW	G	1.4	3.0	17.7	2.5	3	UD09.0/UD12.0/UD13.0	○

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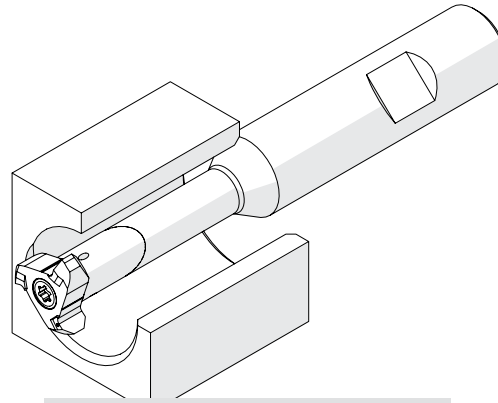
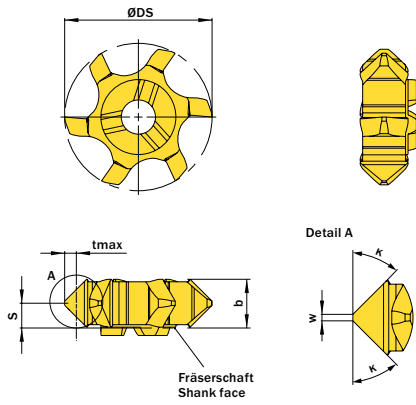


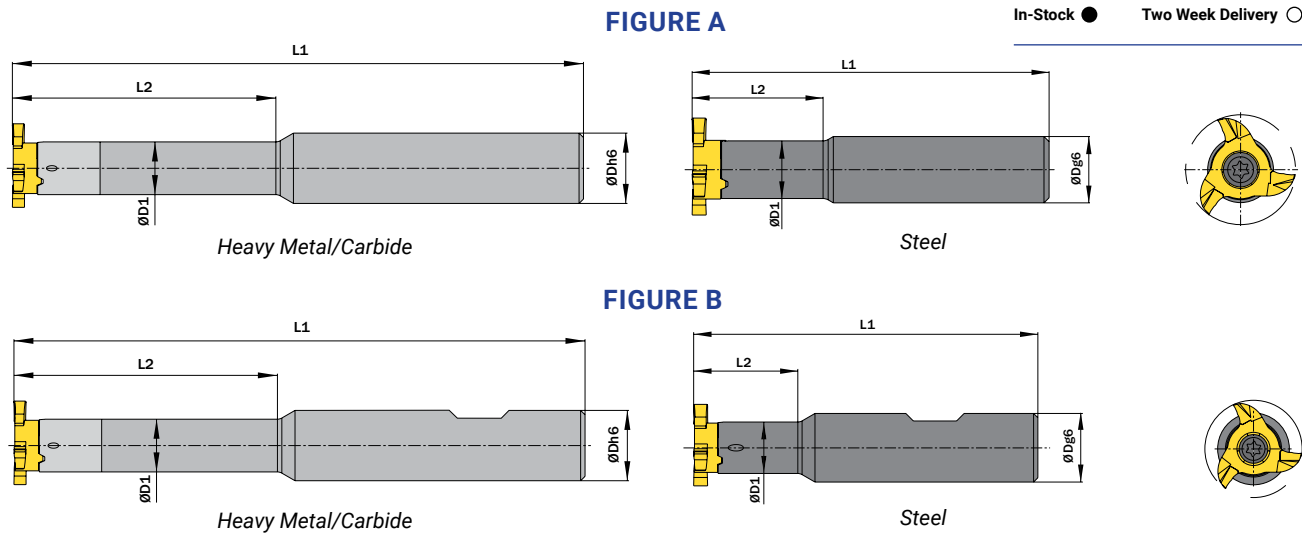
Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: U06.4545.020.18 F

K	w	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	S	b	tmax	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm												
mm												
45°	0.2	18.0	U06.4545.020.18 F	AK5Y	G	3.0	5.75	2.2	17.7	6	UD09.0/UD12.0/UD13.0	○
45°	0.5	15.0	U06.4545.050.15 F	AQWM	G	3.0	5.75	1.6	14.7	6	UD09.0	○

SIMTEK

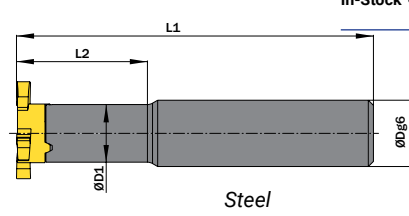
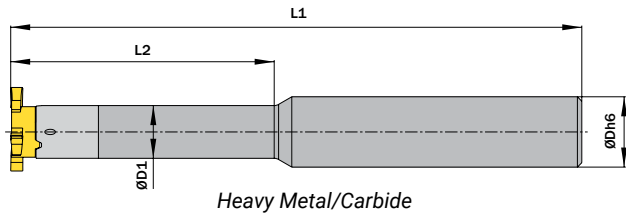
In-Stock ● Two Week Delivery ○



INCH SHANK										
ØDg6	ØD1	L2	PART NUMBER	WEBCODE	L2	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm			mm					
<b>ØDg6 = 12.7mm</b>										
12.7*	12.7	42.0	V22.0.500.13.42 A HM	AHBS	100.0	V M5x12 T20T	T20T	A	VD12.7	○
12.7*	12.7	60.0	V22.0.500.13.60 A HM	AGT2	130.0	V M5x12 T20T	T20T	A	VD12.7	○
12.7*	12.7	42.0	V22.0.500.13.42 B HM	AH67	100.0	V M5x12 T20T	T20T	B	VD12.7	●
12.7*	12.7	60.0	V22.0.500.13.60 B HM	AKZA	130.0	V M5x12 T20T	T20T	B	VD12.7	○
<b>ØDg6 = 15.875mm</b>										
15.875**	12.0	24.0	V22.0.625.12.24 A ST	AN3S	80.0	V M5x12 T20T	T20T	A	VD12.0	●
15.875*	12.0	24.0	V22.0.625.12.24 B ST	AD8N	80.0	V M5x12 T20T	T20T	B	VD12.0	●
15.875**	11.5	30.0	V22.0.625.11.30 A HM	AJ9X	90.0	V M5x12 T20T	T20T	A	VD11.5	○
15.875**	12.0	42.0	V22.0.625.12.42 A HM	APKM	80.0	V M5x12 T20T	T20T	A	VD12.0	○
15.875**	12.0	60.0	V22.0.625.12.60 A HM	AMEX	130.0	V M5x12 T20T	T20T	A	VD12.0	○
15.875**	12.0	85.0	V22.0.625.12.85 A HM	AAG1	160.0	V M5x12 T20T	T20T	A	VD12.0	○
15.875**	14.3	42.0	V28.0.625.14.42 A HM	AD3T	100.0	V M5x12 T20T	T20T	A	VD14.3	○
15.875**	14.3	60.0	V28.0.625.14.60 A HM	AK1F	130.0	V M5x12 T20T	T20T	A	VD14.3	○
15.875**	14.3	85.0	V28.0.625.14.85 A HM	AD9S	160.0	V M5x12 T20T	T20T	A	VD14.3	○
15.875**	11.5	30.0	V22.0.625.11.30 B HM	AG3Z	90.0	V M5x12 T20T	T20T	B	VD11.5	○
15.875**	12.0	42.0	V22.0.625.12.42 B HM	AC12	80.0	V M5x12 T20T	T20T	B	VD12.0	○
15.875**	12.0	60.0	V22.0.625.12.60 B HM	ACUX	130.0	V M5x12 T20T	T20T	B	VD12.0	●
15.875**	12.0	85.0	V22.0.625.12.85 B HM	ABYS	160.0	V M5x12 T20T	T20T	B	VD12.0	○
15.875**	14.3	42.0	V28.0.625.14.42 B HM	AFE3	100.0	V M5x12 T20T	T20T	B	VD14.3	○
15.875**	14.3	60.0	V28.0.625.14.60 B HM	AB65	130.0	V M5x12 T20T	T20T	B	VD14.3	○
15.875**	14.3	85.0	V28.0.625.14.85 B HM	AKGV	160.0	V M5x12 T20T	T20T	B	VD14.3	○
<b>ØDg6 = 19.05mm</b>										
19.05***	15.0	20.0	V28.0.750.15.20 A SM	AHSD	130.0	V M5x12 T20T	T20T	A	VD15.0	○
19.05***	15.0	30.0	V28.0.750.15.30 A SM	AGK2	160.0	V M5x12 T20T	T20T	A	VD15.0	○
19.05***	20.0	35.0	V28.0.750.20.35 A SM	ACX9	145.0	V M5x12 T20T	T20T	A	VD20.0	○
19.05***	20.0	90.0	V28.0.750.20.90 A SM	AFFW	200.0	V M5x12 T20T	T20T	A	VD20.0	○
19.05***	16.0	65.0	V22.0.750.16.65 B SM	AK1D	130.0	V M5x12 T20T	T20T	B	VD16.0	○
19.05***	15.0	20.0	V28.0.750.15.20 B SM	AF49	130.0	V M5x12 T20T	T20T	B	VD15.0	○
19.05***	15.0	30.0	V28.0.750.15.30 B SM	AEDV	160.0	V M5x12 T20T	T20T	B	VD15.0	○
19.05***	20.0	35.0	V28.0.750.20.35 B SM	AN20	145.0	V M5x12 T20T	T20T	B	VD20.0	○
19.05***	20.0	90.0	V28.0.750.20.90 B SM	AANJ	200.0	V M5x12 T20T	T20T	B	VD20.0	○

ST = Steel Shank    HM = Carbide Shank    SM = Heavy Metal    \* 1/2"    \*\* 5/8"    \*\*\* 3/4

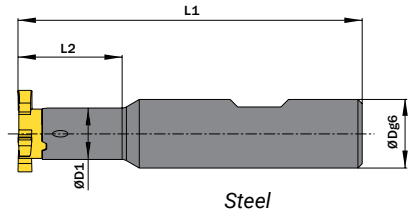
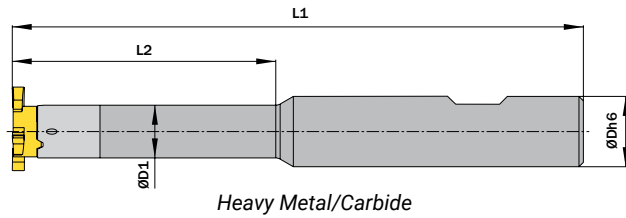
FIGURE A



In-Stock ● Two Week Delivery ○



FIGURE B



METRIC SHANK										
ØDg6	ØD1	L2	PART NUMBER	WEBCODE	L2	SCREW	SCREW DRIVER	FIGURE	CONNECT-CODE	STOCK
mm	mm	mm			mm					
<b>ØDg6 = 10.0mm</b>										
10.0	11.3	10.7	V22.1011.10 A ST	ABCX	60.0	V M5x12 T20T	T20T	A	VD11.3	○
<b>ØDg6 = 12.0mm</b>										
12.0	12.0	42.0	V22.1212.42 A HM	ABVM	100.0	V M5x12 T20T	T20T	A	VD12.0	○
12.0	12.0	60.0	V22.1212.60 A HM	AP4C	130.0	V M5x12 T20T	T20T	A	VD12.0	○
12.0	12.0	42.0	V22.1212.42 B HM	APJA	100.0	V M5x12 T20T	T20T	B	VD12.0	○
12.0	12.0	60.0	V22.1212.60 B HM	AJ81	130.0	V M5x12 T20T	T20T	B	VD12.0	○
<b>ØDg6 = 13.0mm</b>										
13.0	11.3	25.7	V22.1311.25 A ST	ACUJ	70.0	V M5x12 T20T	T20T	A	VD11.3	○
13.0	14.0	10.7	V28.1314.10 A ST	AB44	70.0	V M5x12 T20T	T20T	A	VD14.0	○
13.0	11.3	25.0	V22.1311.25 B ST	AD0Z	70.0	V M5x12 T20T	T20T	B	VD11.3	○
13.0	14.0	10.0	V28.1314.10 B ST	AM67	70.0	V M5x12 T20T	T20T	B	VD14.0	○
<b>ØDg6 = 16.0mm</b>										
16.0	12.0	24.0	V22.1612.24 A ST	AHC0	80.0	V M5x12 T20T	T20T	A	VD12.0	○
16.0	12.0	24.0	V22.1612.24 B ST	AFWU	80.0	V M5x12 T20T	T20T	B	VD12.0	●
16.0	9.0	20.0	V33.1609.20 B ST	AB46	80.0	V M5x12 T20T	T20T	B	VD09.0	○
16.0	11.5	30.0	V22.1611.30 A HM	AMKQ	90.0	V M5x12 T20T	T20T	A	VD11.5	●
16.0	12.0	42.0	V22.1612.42 A HM	AAJW	100.0	V M5x12 T20T	T20T	A	VD12.0	○
16.0	12.0	60.0	V22.1612.60 A HM	AEYP	130.0	V M5x12 T20T	T20T	A	VD12.0	○
16.0	12.0	85.0	V22.1612.85 A HM	AJS8	160.0	V M5x12 T20T	T20T	A	VD12.0	○
16.0	14.3	42.0	V28.1614.42 A HM	AGNA	100.0	V M5x12 T20T	T20T	A	VD14.3	○
16.0	14.3	60.0	V28.1614.60 A HM	AFWJ	130.0	V M5x12 T20T	T20T	A	VD14.3	○
16.0	14.3	85.0	V28.1614.85 A HM	ANDA	160.0	V M5x12 T20T	T20T	A	VD14.3	○
16.0	9.0	33.0	V33.1609.33 A HM	AAWZ	100.0	V M5x12 T20T	T20T	A	VD09.0	○
16.0	11.5	30.0	V22.1611.30 B HM	AKP6	90.0	V M5x12 T20T	T20T	B	VD11.5	○
16.0	12.0	42.0	V22.1612.42 B HM	AHES	100.0	V M5x12 T20T	T20T	B	VD12.0	○
16.0	12.0	60.0	V22.1612.60 B HM	AD03	130.0	V M5x12 T20T	T20T	B	VD12.0	○
16.0	12.0	85.0	V22.1612.85 B HM	APYY	160.0	V M5x12 T20T	T20T	B	VD12.0	○
16.0	14.3	42.0	V28.1614.42 B HM	ANNZ	100.0	V M5x12 T20T	T20T	B	VD14.3	○
16.0	14.3	60.0	V28.1614.60 B HM	AJ23	130.0	V M5x12 T20T	T20T	B	VD14.3	○
16.0	14.3	85.0	V28.1614.85 B HM	AGBC	160.0	V M5x12 T20T	T20T	B	VD14.3	○
16.0	9.0	33.0	V33.1609.33 B HM	APSS	100.0	V M5x12 T20T	T20T	B	VD09.0	○
<b>ØDg6 = 20.0mm</b>										
20.0	14.0	35.7	V28.2014.35 A ST	AEWT	100.0	V M5x12 T20T	T20T	B	VD14.0	○
20.0	14.0	35.0	V28.2014.35 B ST	AE05	100.0	V M5x12 T20T	T20T	B	VD14.0	○
20.0	16.0	45.0	V22.2016.45 A HM	AF6W	110.0	V M5x12 T20T	T20T	A	VD16.0	○
20.0	16.0	65.0	V22.2016.65 A HM	ACHN	130.0	V M5x12 T20T	T20T	A	VD16.0	○
20.0	13.5	35.0	V28.2013.35 A HM	AE3N	104.0	V M5x12 T20T	T20T	A	VD13.5	○
20.0	14.3	85.0	V28.2014.85 A HM	AFNT	160.0	V M5x12 T20T	T20T	A	VD14.3	○
20.0	16.0	45.0	V22.2016.45 B HM	AG2G	110.0	V M5x12 T20T	T20T	B	VD16.0	○
20.0	16.0	65.0	V22.2016.65 B HM	AHNF	130.0	V M5x12 T20T	T20T	B	VD16.0	○
20.0	13.5	35.0	V28.2013.35 B HM	ACWW	104.0	V M5x12 T20T	T20T	B	VD13.5	○
20.0	14.3	85.0	V28.2014.85 B HM	AF3D	160.0	V M5x12 T20T	T20T	B	VD14.3	○
<b>ØDg6 = 20.0mm</b>										
20.0	14.0	35.0	V28.2014.35 B ST	AE05	100.0	V M5x12 T20T	T20T	B	VD14.0	○
20.0	15.0	20.0	V28.2015.20 A SM	AA4K	130.0	V M5x12 T20T	T20T	A	VD15.0	○
20.0	15.0	30.0	V28.2015.30 A SM	AHPH	160.0	V M5x12 T20T	T20T	A	VD15.0	○
20.0	20.0	35.0	V28.2020.35 A SM	AJ1F	145.0	V M5x12 T20T	T20T	A	VD20.0	○
20.0	20.0	90.0	V28.2020.90 A SM	AEJ8	200.0	V M5x12 T20T	T20T	A	VD20.0	○
20.0	15.0	20.0	V28.2015.20 B SM	APPD	130.0	V M5x12 T20T	T20T	B	VD15.0	○
20.0	15.0	30.0	V28.2015.30 B SM	APEF	160.0	V M5x12 T20T	T20T	B	VD15.0	○
20.0	20.0	35.0	V28.2020.35 B SM	ABBD	145.0	V M5x12 T20T	T20T	B	VD20.0	○
20.0	20.0	90.0	V28.2020.90 B SM	ANKD	200.0	V M5x12 T20T	T20T	B	VD20.0	○

# GROOVE MILLING - VX

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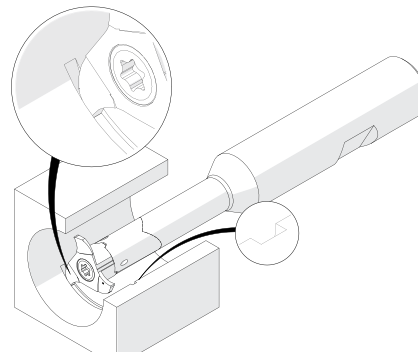
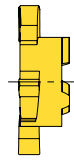
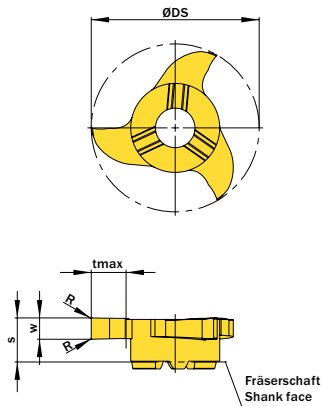


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: V22.0265.02 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm					mm	mm	mm			
0.74	0.7	-	22.0	V22.0070.00 Z	ABDX	H	1.5	5.7	21.7	3	VD12.0	○
0.84	0.8	-	22.0	V22.0080.00 Z	AP3G	H	1.7	5.7	21.7	3	VD12.0	○
0.94	0.9	-	22.0	V22.0090.00 Z	AJMH	H	1.9	5.7	21.7	3	VD12.0	○
1.04	1.0	-	22.0	V22.0100.00 Z	AMB0	H	2.1	5.7	21.7	3	VD12.0	○
1.21	1.1	-	22.0	V22.0110.00 Z	APJY	H	2.5	5.7	21.7	3	VD12.0	○
1.41	1.3	0.1	22.0	V22.0130.01 G	ACS5	G	4.5	5.7	21.7	3	VD12.0	○
1.71	1.6	0.1	22.0	V22.0160.01 G	ABJ5	G	4.5	5.7	21.7	3	VD12.0	○
1.96	1.85	0.15	22.0	V22.0185.02 G	AGKU	G	4.5	5.7	21.7	3	VD12.0	○
2.26	2.15	0.15	22.0	V22.0215.02 G	AFGW	G	4.5	5.7	21.7	3	VD12.0	○
2.76	2.65	0.15	22.0	V22.0265.02 G	ADKF	G	4.5	5.7	21.7	3	VD12.0	○
3.26	3.15	0.15	22.0	V22.0315.02 G	AMP1	G	4.5	5.7	21.7	3	VD12.0	○
4.26	4.15	0.15	22.0	V22.0415.02 G	AE13	G	4.5	5.7	21.7	3	VD12.0	○
5.26	5.15	0.15	22.0	V22.0515.02 G	AEK1	G	4.5	5.7	21.7	3	VD12.0	○
5.26	5.15	0.4	22.0	V22.0515.04 G	AAG9	G	4.5	5.7	21.7	3	VD12.0	○
1.0	-	0.1	22.0	V22.0100.01 G	AEQM	G	4.5	5.7	21.7	3	VD12.0	○
1.5	-	0.2	22.0	V22.0150.02 G	AHH9	G	4.5	5.7	21.7	3	VD12.0	○
1.57	-	0.2	22.0	V22.0157.02 G	ANQX	G	4.5	5.7	21.7	3	VD12.0	●
2.0	-	0.2	22.0	V22.0200.02 G	ADNU	G	4.5	5.7	21.7	3	VD12.0	○
2.39	-	0.2	22.0	V22.0239.02 G	AHMN	G	4.5	5.7	21.7	3	VD12.0	○
2.5	-	0.2	22.0	V22.0250.02 G	AKKF	G	4.5	5.7	21.7	3	VD12.0	○
3.0	-	0.2	22.0	V22.0300.02 G	ABXX	G	4.5	5.7	21.7	3	VD12.0	○
3.18	-	0.2	22.0	V22.0318.02 G	AK1S	G	4.5	5.7	21.7	3	VD12.0	○
3.18	-	0.4	22.0	V22.0318.04 G	AB1P	G	4.5	5.7	21.7	3	VD12.0	○
3.5	-	0.2	22.0	V22.0350.02 G	AM6N	G	4.5	5.7	21.7	3	VD12.0	○
3.56	-	0.2	22.0	V22.0356.02 G	AD90	G	4.5	5.7	21.7	3	VD12.0	○
4.0	-	0.2	22.0	V22.0400.02 G	AF5N	G	4.5	5.7	21.7	3	VD12.0	○
4.0	-	0.4	22.0	V22.0400.04 G	AGMH	G	4.5	5.7	21.7	3	VD12.0	○
4.37	-	0.2	22.0	V22.0437.02 G	AHBP	G	4.5	5.7	21.7	3	VD12.0	○
4.37	-	0.4	22.0	V22.0437.04 G	AEPH	G	4.5	5.7	21.7	3	VD12.0	○
4.75	-	0.2	22.0	V22.0475.02 G	ADF7	G	4.5	5.7	21.7	3	VD12.0	●

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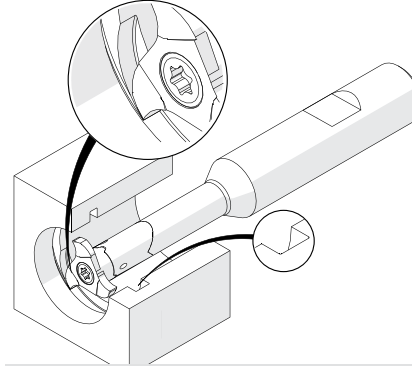
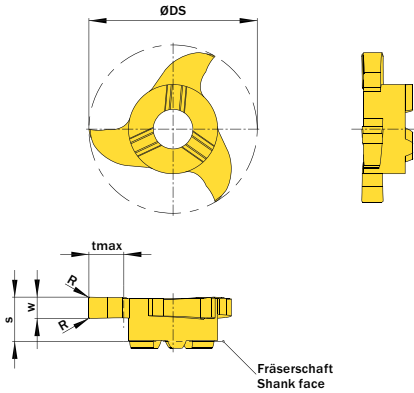


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: V22.0250.02 G

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm					mm	mm	mm			
1.0	-	0.1	22.0	V06.0100.010.22 G	AGZW	G	4.5	6.2	21.7	6	VD12.0	○
1.5	-	0.1	22.0	V06.0150.010.22 G	AGY6	G	4.5	6.2	21.7	6	VD12.0	○
2.0	-	0.2	22.0	V06.0200.020.22 G	AFJQ	G	4.5	6.2	21.7	6	VD12.0	○
2.5	-	0.2	22.0	V06.0250.020.22 G	AKJ5	G	4.5	6.2	21.7	6	VD12.0	○
3.0	-	0.2	22.0	V06.0300.020.22 G	AFBB	G	4.5	6.2	21.7	6	VD12.0	○
4.0	-	0.2	22.0	V06.0400.020.22 G	APZW	G	4.5	6.2	21.7	6	VD12.0	○

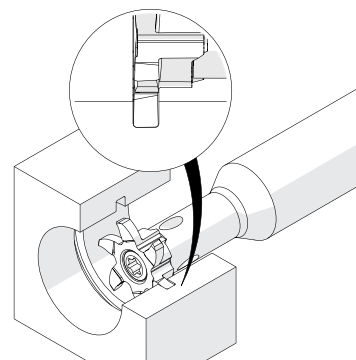
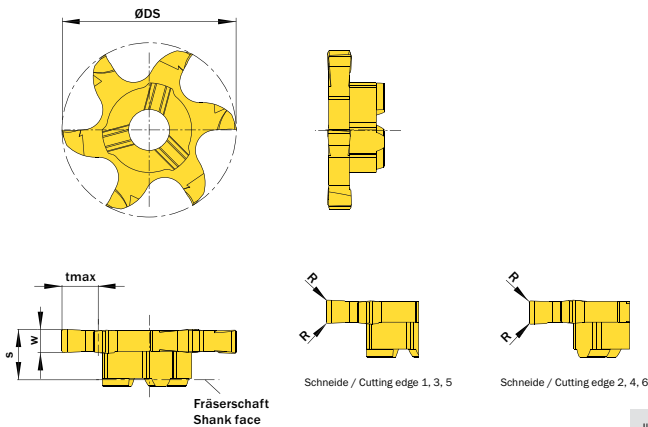


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: V06.0300.020.22 GY

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm					mm	mm	mm			
2.5	-	0.2	22.0	V06.0250.020.22 GY	AYFX	G	4.5	6.2	21.7	6	VD12.0	○
3.0	-	0.2	22.0	V06.0300.020.22 GY	AYFY	G	4.5	6.2	21.7	6	VD12.0	○
4.0	-	0.2	22.0	V06.0400.020.22 GY	AYFZ	G	4.5	6.2	21.7	6	VD12.0	○



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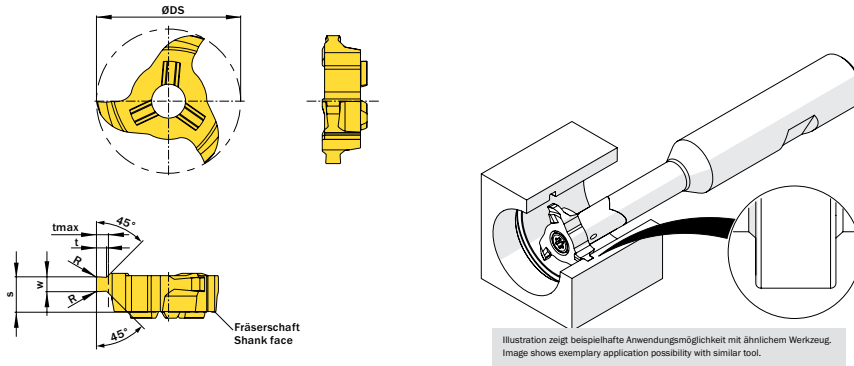


Abbildung zeigt / Drawing shows: V22.2215.35 F

W	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	t	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm	mm			
1.21	1.1	-	22.0	V22.1105.30 F	ADTP	G	0.49	0.5	5.0	21.7	3		○
1.41	1.3	-	22.0	V22.1307.30 F	AJDV	G	0.67	0.7	5.2	21.7	3		○
1.41	1.3	-	22.0	V22.1308.30 F	ADZF	G	0.83	0.85	5.2	21.7	3		○
1.71	1.6	-	22.0	V22.1609.35 F	AKYN	G	0.83	0.85	5.0	21.7	3		○
1.71	1.6	-	22.0	V22.1610.35 F	AKAE	G	0.97	1.0	5.0	21.7	3		○
1.96	1.85	0.15	22.0	V22.1812.35 F	AA3W	G	1.23	1.25	5.2	21.7	3	VD11.3/VD11.5/VD12.0	○
2.26	2.15	0.15	22.0	V22.2215.35 F	APWV	G	1.47	1.5	5.3	21.7	3	VD12.7/VD13.5/VD14.0	○
2.76	2.65	0.15	22.0	V22.2616.45 F	AAAZ	G	1.47	1.5	5.0	21.7	3	VD14.3/VD15.0/VD16.0	○
2.76	2.65	0.15	22.0	V22.2617.45 F	AEW7	G	1.72	1.75	5.0	21.7	3		○
3.26	3.15	0.2	22.0	V22.3118.45 F	AFJ7	G	1.72	1.75	5.3	21.7	3		○
4.26	4.15	0.2	22.0	V22.4120.55 F	AD5S	G	1.97	2.0	5.3	21.7	3		○
4.26	4.15	0.2	22.0	V22.4125.55 F	AE8V	G	2.47	2.5	5.3	12.7	3		○

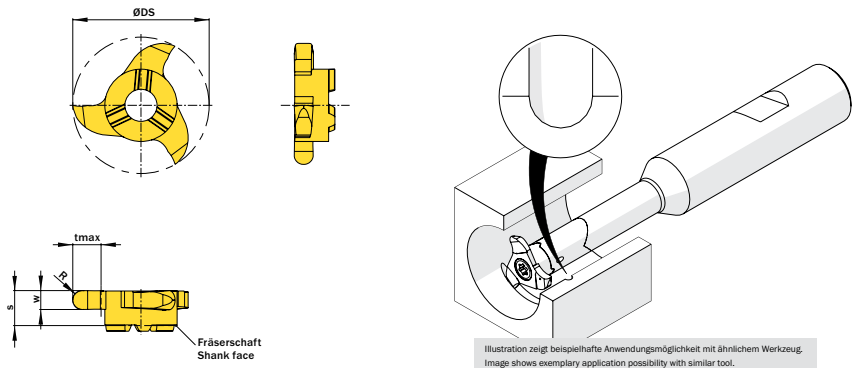


Abbildung zeigt / Drawing shows: V22.0015.30 V

W	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm			
0.5	1.0	22.0	V22.0005.10 V	AD2W	G	4.5	5.8	21.7	3	VD12.0	●
0.8	1.6	22.0	V22.0008.16 V	AFEE	G	4.5	5.8	21.7	3	VD12.0	●
1.0	2.0	22.0	V22.0010.20 V	ABHY	G	4.5	5.8	21.7	3	VD12.0	○
1.2	2.4	22.0	V22.0012.24 V	ACH9	G	4.5	5.8	21.7	3	VD12.0	○
1.4	2.8	22.0	V22.0014.28 V	ADDY	G	4.5	5.8	21.7	3	VD12.0	○
1.5	3.0	22.0	V22.0015.30 V	AF96	G	4.5	5.8	21.7	3	VD12.0	●
2.0	4.0	22.0	V22.0020.40 V	ACC4	G	4.5	5.8	21.7	3	VD12.0	○
2.2	4.4	22.0	V22.0022.44 V	AC2Y	G	4.5	5.8	21.7	3	VD12.0	●
2.5	5.0	22.0	V22.0025.50 V	AH32	G	4.5	5.8	21.7	3	VD12.0	○

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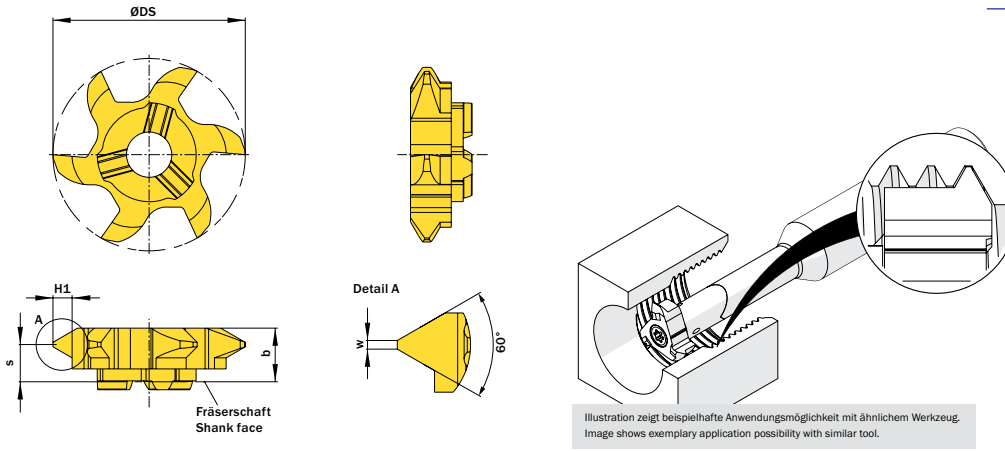


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: V06.2140.02.22 M

MIN THREAD SIZE	H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm			
M24	0.81	1.5	V06.0815.02.22 M	AQ1C	G	6.2	5.3	0.19	21.7	6		○
M27	0.95	1.75	V06.0917.02.22 M	AQ1D	G	6.2	5.2	0.22	21.7	6	VD11.3/VD11.5/VD12.0	○
M27	1.08	2.0	V06.1020.02.22 M	AQ1E	G	6.2	5.0	0.25	21.7	6	VD12.7/VD13.5/VD14.0	○
M30	1.62	3.0	V06.1630.02.22 M	AQ1F	G	6.2	4.8	0.37	21.7	6	VD14.3/VD15.0/VD16.0	○
M33	2.16	4.0	V06.2140.02.22 M	AQ1G	G	6.2	4.4	0.5	21.7	6		○

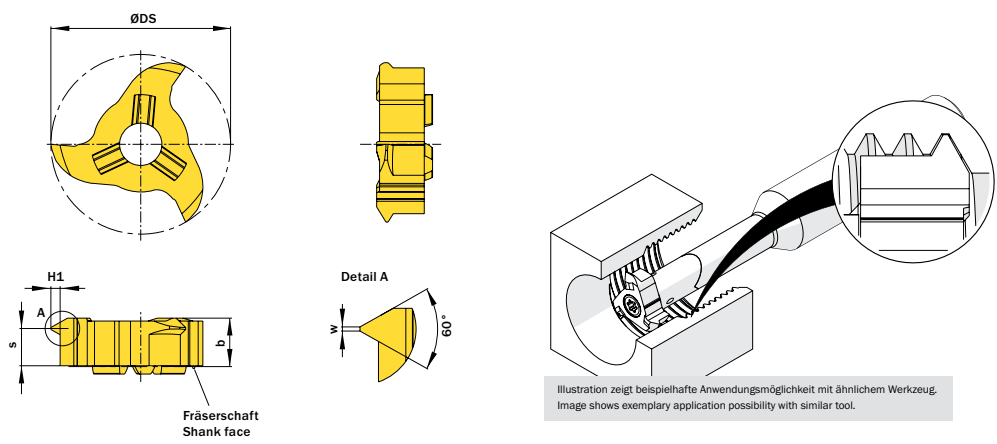


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

Abbildung zeigt / Drawing shows: V22.1020.02 M

MIN THREAD SIZE	H1	MIN PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm				mm	mm	mm	mm			
M24	0.81	1.5	V22.0815.02 M	AA28	G	5.85	4.8	0.19	21.7	3		○
M27	0.95	1.75	V22.0917.02 M	AD26	G	5.85	4.7	0.22	21.7	3		○
M27	1.08	2.0	V22.1020.02 M	APM9	G	5.85	4.6	0.25	21.7	3	VD11.3/VD11.5/VD12.0	○
M30	1.62	3.0	V22.1630.02 M	ADAA	G	5.85	4.3	0.37	21.7	3	VD12.7/VD13.5/VD14.0	○
M30	1.89	3.5	V22.1835.02 M	AHUY	G	5.85	4.0	0.43	21.7	3	VD14.3/VD15.0/VD16.0	○
M33	2.16	4.0	V22.2140.02 M	AD70	G	5.85	3.9	0.5	21.7	3		●
M33	2.43	4.5	V22.2445.02 M	AEFA	G	5.85	3.7	0.56	21.7	3		○

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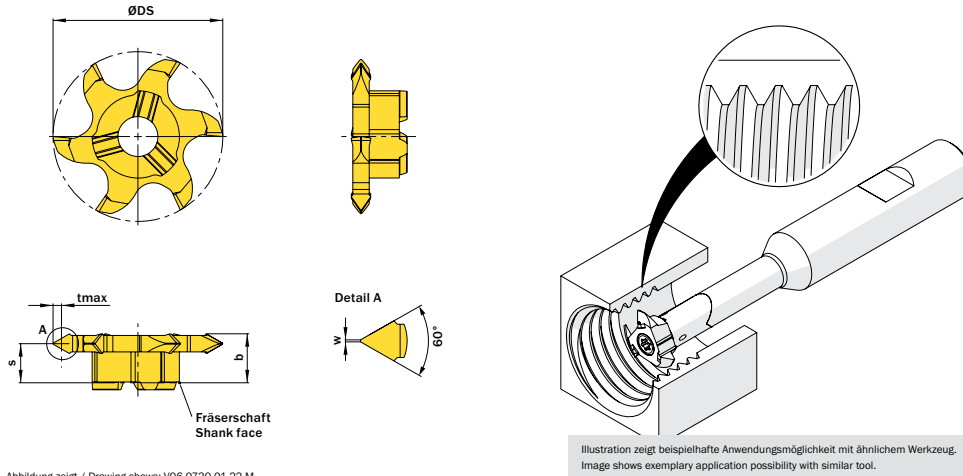


Abbildung zeigt / Drawing shows: V06.0720.01.22 M

MIN THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	tmax	ØDS	# OF CUTTING EDGES	CONNECT- CODE	STOCK
M27	1.0	2.0	V06.0720.01.22 M	AJ2A	G	6.2	5.0	0.12	1.19	21.7	6	VD11.3/VD11.5/VD12.0	○
M27	2.0	4.5	V06.2545.01.22 M	AM1S	G	6.05	4.2	0.25	2.7	21.7	6	VD12.7/VD13.5/VD14.0 VD14.3/VD15.0/VD16.0	○

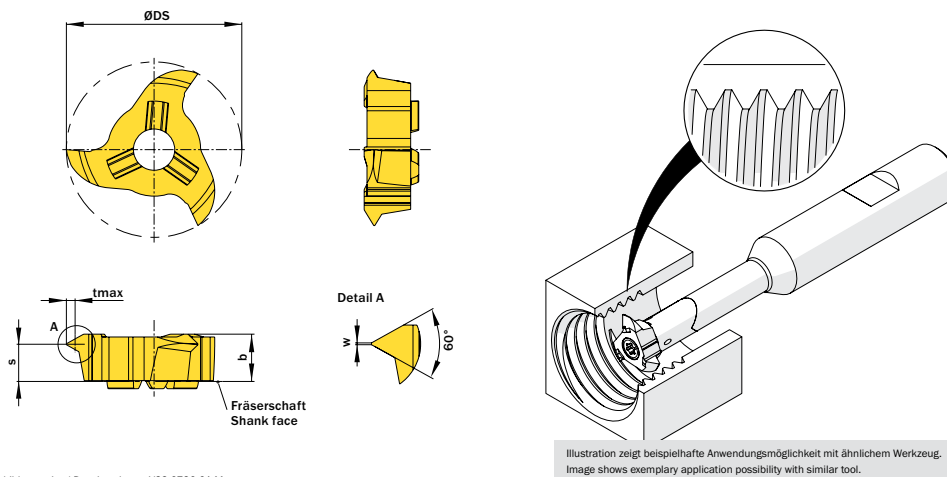


Abbildung zeigt / Drawing shows: V22.0720.01 M

MIN THREAD SIZE	MIN PITCH	MAX PITCH	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	b	S	w	tmax	ØDS	# OF CUTTING EDGES	CONNECT- CODE	STOCK
M27	1.0	2.0	V22.0720.01 M	ABS8	G	5.85	4.6	0.12	1.19	21.7	3	VD11.3/VD11.5/VD12.0	○
M27	1.5	2.75	V22.0815.01 M	AA9K	G	5.85	4.5	0.18	1.62	21.7	3	VD12.7/VD13.5/VD14.0	○
M27	2.0	3.75	V22.1020.01 M	ADZU	G	5.85	4.2	0.25	2.22	21.7	3	VD14.3/VD15.0/VD16.0	○
M30	2.5	5.0	V22.1630.01 M	AF00	G	5.85	3.8	0.31	2.98	21.7	3	VD12.0	○
M30	3.5	6.0	V22.2140.01 M	AF72	G	5.85	3.4	0.44	3.52	21.7	3	VD12.0	○
M30	3.5	6.5	V22.2445.01 M	ABAF	G	5.85	3.2	0.44	3.84	21.7	3	VD12.0	●
M27	2.5	4.5	V22.2545.01 M	AEAA	G	5.85	3.7	0.25	2.7	21.7	3	VD12.0	○

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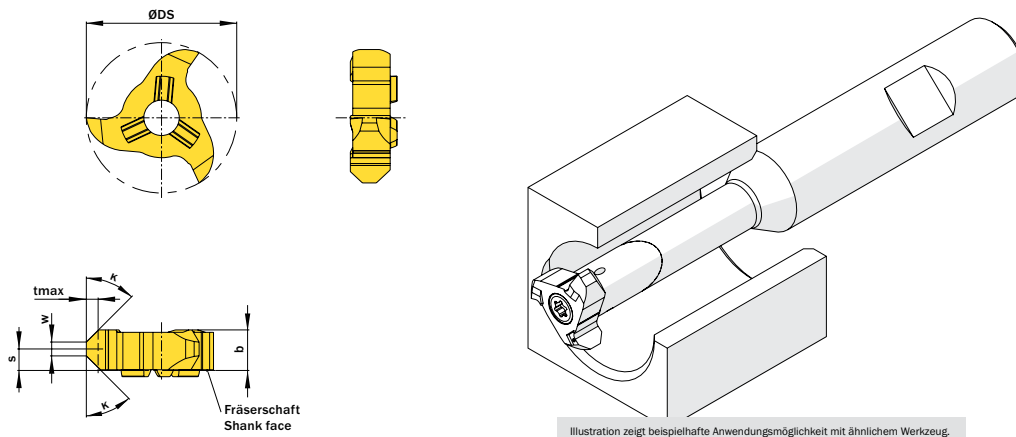


Abbildung zeigt / Drawing shows: V22.4545.58 F

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

K	w	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	b	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm			
45°	2.0	22.0	V22.4545.58 F	ADU1	G	1.7	5.85	3.0	21.7	3	VD11.3/VD11.5/VD12.0 VD12.7/VD13.5/VD14.0 VD14.3/VD15.0/VD16.0	<input type="radio"/>
45°	3.0	22.0	V22.4545.94 F	AH71	G	3.0	9.4	4.8	21.7	3	VD11.3/VD11.5/VD12.0 VD12.7/VD13.5/VD14.0 VD14.3/VD15.0	<input type="radio"/>

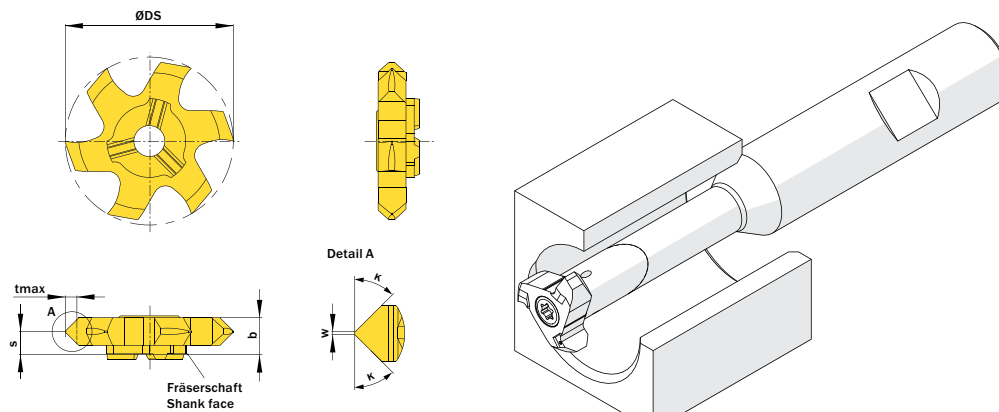


Abbildung zeigt / Drawing shows: V06.4545.020.28 F

Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

K	w	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	b	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
	mm	mm				mm	mm	mm	mm			
45°	0.2	22.0	V06.4545.020.22 F	AE4P	G	1.9	6.05	3.8	21.7	6	VD11.3/VD11.5/VD12.0 VD12.7/VD13.5/VD14.0	<input type="radio"/>
45°	0.2	28.0	V06.4545.020.28 F	AT86	G	1.9	6.05	3.8	27.7	6	VD14.3/VD15.0/VD16.0	<input type="radio"/>

# GROOVE MILLING - VX

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SIMTEK

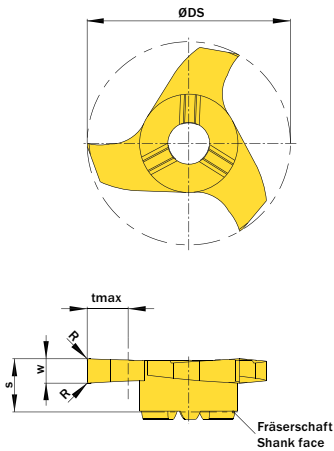


Abbildung zeigt / Drawing shows: V25.0300.02 G

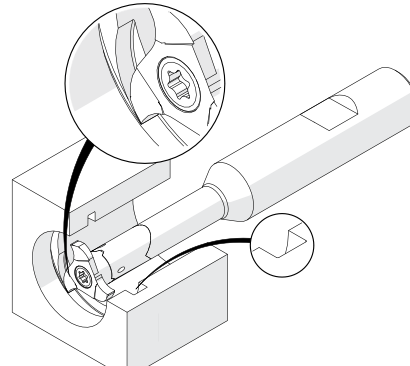
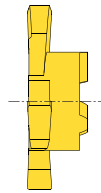


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

w	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
2.0	-	0.2	25.0	V25.0200.02 G	AHS7	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
2.39	-	0.2	25.0	V25.0239.02 G	APTW	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
2.5	-	0.2	25.0	V25.0250.02 G	ACG1	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
3.0	-	0.2	25.0	V25.0300.02 G	AFPB	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
3.18	-	0.2	25.0	V25.0318.02 G	AAZ4	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
3.5	-	0.2	25.0	V25.0350.02 G	AKG8	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
4.0	-	0.2	25.0	V25.0400.02 G	AA9X	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○
4.75	-	0.2	25.0	V25.0475.02 G	AMMV	G	5.0	6.5	24.8	3	VD14.0/VD14.3	○

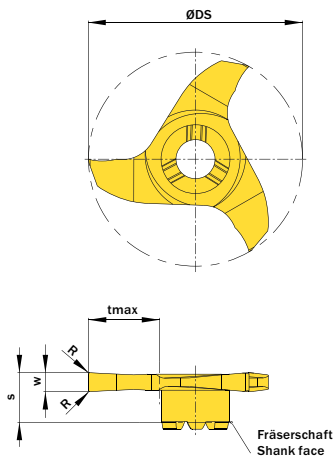


Abbildung zeigt / Drawing shows: V28.0250.02.09 G

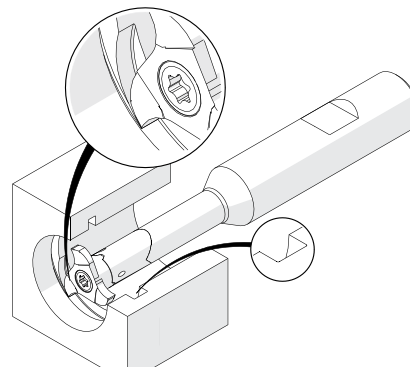
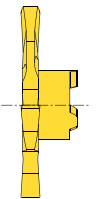


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.

w	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.5	-	0.2	28.0	V28.0150.02.09 G	AC15	G	9.3	6.5	28.0	3	VD09.0	○
2.0	-	0.2	28.0	V28.0200.02.09 G	AM94	G	9.3	6.5	28.0	3	VD09.0	○
2.5	-	0.2	28.0	V28.0250.02.09 G	AD74	G	9.3	6.5	28.0	3	VD09.0	○

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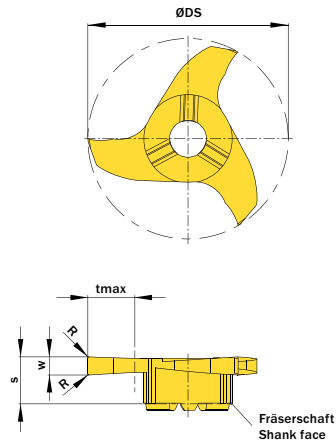


Abbildung zeigt / Drawing shows: V28.0250.02 G

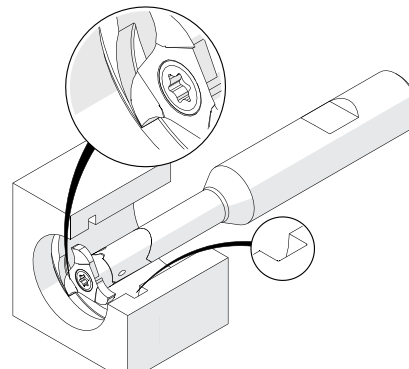
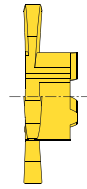


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.  
Image shows exemplary application possibility with similar tool.



w	NOMINAL WIDTH OF GROOVE	R	ØDmin	PART NUMBER	WEBCODE	CUTTING GRADE GROUP	tmax	S	ØDS	# OF CUTTING EDGES	CONNECT-CODE	STOCK
mm	mm	mm	mm				mm	mm	mm			
1.5	-	0.2	28.0	V28.0150.02 G	AN4A	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
2.0	-	0.2	28.0	V28.0200.02 G	AG3V	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
2.5	-	0.2	28.0	V28.0250.02 G	AECZ	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
3.0	-	0.2	28.0	V28.0300.02 G	ADQJ	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
3.5	-	0.2	28.0	V28.0350.02 G	AP0W	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
4.0	-	0.2	28.0	V28.0400.02 G	AGNX	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
5.0	-	0.2	28.0	V28.0500.02 G	APST	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
6.0	-	0.2	28.0	V28.0600.02 G	APNV	G	6.5	6.5	27.7	3	VD14.0/VD14.3	○
10.0	-	0.2	28.0	V28.1000.02 G	AXXP	G	6.5	10.0	27.7	3	VD14.0/VD14.3	○

# CUTTING SPEED PARAMETERS



SIMTEK

ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
P	GN39	Steel, unalloyed	≤ 0.15 % C	900
			0.15-0.4 % C	810
			≥ 0.4 % c	750
		Steel, low alloyed (Alloying elements ≤ 5%)	Non-hardened	720
			Hardened	420
		Steel, high alloyed (Alloying elements > 5%)	Annealed	480
			Hardened	390
Castings	Unalloyed	660		
	Low alloying (Alloying elements ≤ 5%) High alloying (Alloying elements > 5%)	510 390		

ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
M	GT45	Stainless steel (Ferritic/Marrensitic)	Non-hardened	630
			PH-hardened	450
			Hardened	450
		Stainless Steel Austenitic	Austenitic	600
			PH-hardened	420
			Supen Austenitic	450
		Stainless steel Austenitic-ferritic (Duplex)	Non-weldable ≥ 0.05% C	510
			Weldable < 0.05% C	420
		Stainless steel (Cast) Ferritic/martensitic	Non-hardened	540
			PH-hardened	390
			Hardened	420
		Stainless steel (Cast) Austenitic	Austenitic	570
PH-geharet	570			
Stainless steel (Cast) Austenitic-ferritic (Duplex)	Non-weldable ≥ 0.05% C	390		
	Weldable < 0.05% C	480		
			480	

ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
K	GN39	Malleable	Ferritic (Short chipping)	750
			Pearlitic (Long chipping)	630
		Grey Cast Iron	Low tensile strength	870
			High tensile strength	660
		Spheroidal Graphite Cast Iron	Ferritic	510
			Pearlitic	480
			Martensitic	330

ISO-GROUP	RECOMMENDED CUTTING GRADE	SUB-GROUP	ALTERNATIVE CUTTING GRADE	VC FEET/min (START)
N	GN39	Alluminium Alloys, Whrought	Can not be hardened	2520
			Can be hardened, hardened	2250
		Alluminium Alloys, Cast	Can not be hardened	2520
			Can be hardened, hardened	2250
		Aluminium Alloys. Cast	< 16% Si	1020
			≥ 16% Si	750
		Copper and Copper Alloys	Free Cutting Alloys, ≥ 1% Pb	1260
Brass, leaded bronzes, ≤ 1% Pb	1260			
Bronze, lead-free copper incl. electrolyti copper	900			

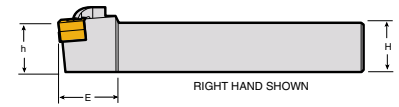
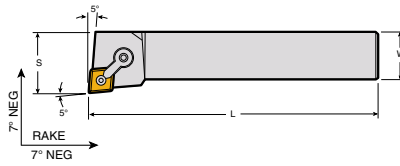
# INDEXABLE CARBIDE





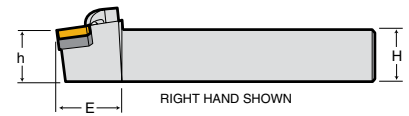
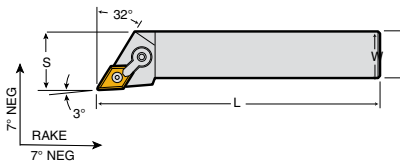
# ANSI TOOL HOLDERS

In-Stock ● Two Week Delivery ○

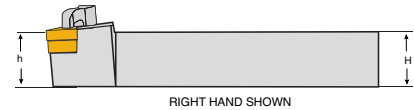
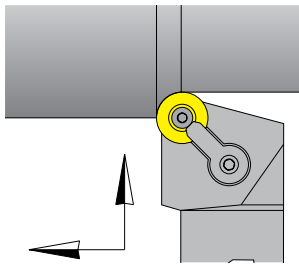


MCLNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-062	MCLNR16-4D	CNMG or CNGA 43x	1.00	1.00	6.00	1.25	1.00	1.25	●
286-061	MCLNL16-4D	CNMG or CNGA 43x	1.00	1.00	6.00	1.25	1.00	1.25	●
286-064	MCLNR16-5D	CNMG or CNGA 54x	1.00	1.00	6.00	1.375	1.25	1.375	●
286-068	MCLNR20-4D	CNMG or CNGA 43x	1.25	1.25	6.00	1.187	1.50	1.25	●
286-067	MCLNL20-4D	CNMG or CNGA 54x	1.25	1.25	6.00	1.187	1.50	1.25	●
286-070	MCLNR20-5D	CNMG or CNGA 43x	1.25	1.25	6.00	1.375	1.50	1.375	●
286-069	MCLNL20-5D	CNMG or CNGA 54x	1.25	1.25	6.00	1.375	1.50	1.375	●
286-072	MCLNR20-6D	CNMG or CNGA 64x	1.25	1.25	6.00	1.50	1.50	1.50	●
286-074	MCLNR24-4D	CNMG or CNGA 43x	1.50	1.50	6.00	1.25	1.50	1.25	●

INDEXABLE



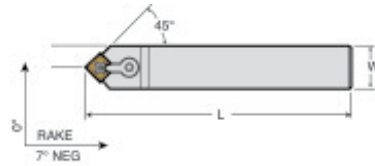
MDJNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-128	MDJNR 12-4D	DNMG or DNGA 43x	0.75	0.75	6.00	1.00	0.75	1.25	●
286-130	MDJNR 16-4D	DNMG or DNGA 43x	1.00	1.00	6.00	1.25	1.00	1.25	●
286-134	MDJNR 20-4D	DNMG or DNGA 43x	1.25	1.25	6.00	1.50	1.25	1.24	●



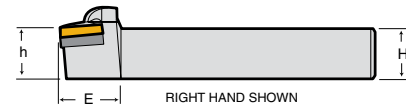
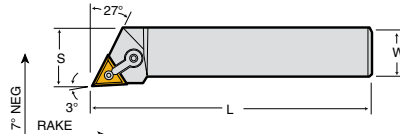
MRGNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-160	MRGNR 16-4D	RNMG/A or RNGN/A 43	1.00	1.00	6.00	1.25	1.00	1.187	●

# ANSI TOOL HOLDERS

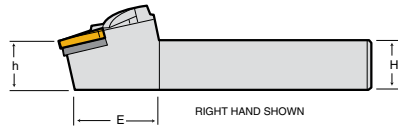
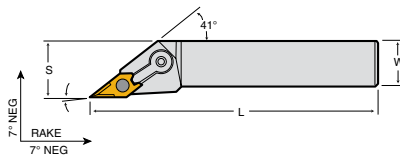
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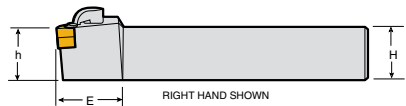
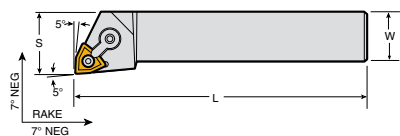
MSDNN									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-184	MSDNN 16-4D	SNMG or SNGA 43x	1.00	1.00	6.00	0.50	1.00	1.375	●



MTJNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-318	MTJNR 16-4D	TNMG or TNGA 43x	1.00	1.00	6.00	1.25	1.00	1.325	●
286-320	MTJNR 20-4D	TNMG or TNGA 43x	1.25	1.25	6.00	1.50	1.25	1.325	●
286-324	MTJNR 20-5D	TNMG or TNGA 54x	1.25	1.25	6.00	1.50	1.25	1.44	●



MVJNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-356	MVJNR 16-3D	VNMG or VNGA 33x	1.00	1.00	6.00	1.25	1.00	1.687	●
286-360	MVJNR 20-3D	VNMG or VNGA 33x	1.25	1.25	6.00	1.50	1.25	1.687	●
286-362	MVJNR 20-4D	VNMG or VNGA 43x	1.25	1.25	6.00	1.50	1.25	2.00	●



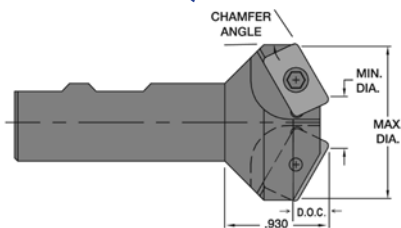
MWLNR/L									
PART NUMBER	DESCRIPTION	INSERT	H	W	L	S	H	E	STOCK
286-380	MWLNR 16-4D	WNMG or WNGA 33x	1.00	1.00	6.00	1.25	1.00	1.25	●

INDEXABLE

# CHAMFER MILL

In-Stock ● Two Week Delivery ○

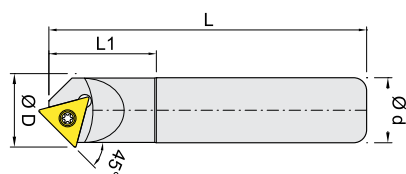
## Chamfer Mill with Weldon Shank (Series CHM)



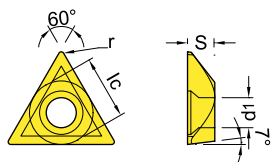
INDEXABLE

PART NUMBER	MIN DIA	MAX DIA	WELDON SHANK	CHAMFER ANGLE	NUMBER OF FLUTES	DEPTH OF CUT	OVERALL LENGTH	INSERT	STOCK
CHM-750-30	.750	1.303	3/4	30°	2	.479	3.000	APLT-347	●
CHM-688-41	.688	1.414	3/4	41°	2	.418	3.000	APLT-347	●
CHM-688-45	.688	1.471	3/4	45°	2	.391	3.000	APLT-347	●
CHM-500-60	.500	1.458	3/4	60°	2	.277	3.000	APLT-347	●
CHM-1.000-30	1.000	1.553	1	30°	3	.479	3.200	APLT-347	○
CHM-938-41	.938	1.664	1	41°	3	.418	3.200	APLT-347	○
CHM-938-45	.938	1.721	1	46°	3	.391	3.200	APLT-347	○
CHM-750-60	.750	1.708	1	60°	3	.277	3.200	APLT-347	○
CHM-1.250-30	1.250	1.803	1 1/4	30°	3	.479	3.200	APLT-347	○
CHM-1.188-41	1.188	1.914	1 1/4	41°	3	.418	3.200	APLT-347	○
CHM-1.188-45	1.188	1.971	1 1/4	45°	3	.391	3.200	APLT-347	○
CHM-1.000-60	1.000	1.958	1 1/4	60°	3	.277	3.200	APLT-347	○
CHM-1.500-30	1.500	2.053	1 1/2	30°	3	.479	3.600	APLT-347	○
CHM-1.438-41	1.438	2.164	1 1/2	41°	3	.418	3.600	APLT-347	○
CHM-1.438-45	1.438	2.221	1 1/2	45°	3	.391	3.600	APLT-347	○
CHM-1.250-60	1.250	2.208	1 1/2	60°	3	.277	3.600	APLT-347	○

\*See next page for APLT-347 insert



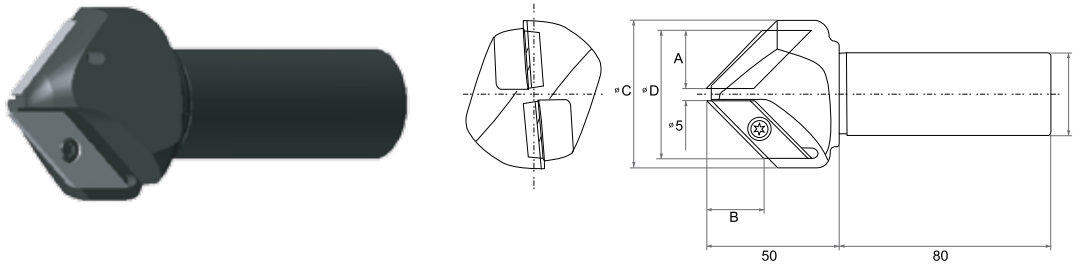
ITEM CODE	DIMENSIONS, MM				TEETH	INSERT	SCREW	WRENCH	STOCK
	D	d	M	H					
TCRM90-20-S20-130	21.5	20	130	35	1	TCMX16T308CR	MS4011A	ETF15	●



DESCRIPTION	DIMENSIONS, MM					STOCK
	GRADE	lc	s	R	d1	
TCMX16T308CR	DW143	9.525	3.97	0.8	4.4	●

# CHAMFER MILL

In-Stock ● Two Week Delivery ○



PART NUMBER	DIMENSIONS						NUMBER OF TEETH	STOCK
	INCL. ANGLE	A	B	ØC	ØD	d		
CSC 0503 1R-30A	60°	0.570"	1.004"	1.574"	1.340"	1.000"	1	●
CSC 0503 1R0-41-A	82°	0.783"	0.859"	2.200"	1.690"	1.000"	2	●
CSC 0503 1R0-45-A	90°	0.826"	0.807"	2.200"	1.850"	1.000"	2	●
CSC 0503 1R0-60-A	120°	1.003"	0.570"	2.830"	2.200"	1.000"	2	●

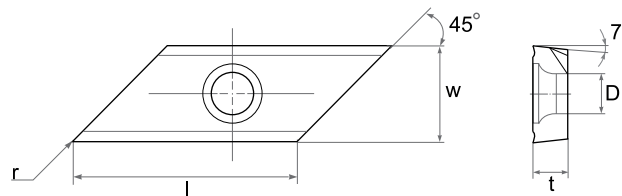
INDEXABLE

## Inserts

**TX520** - Uncoated cermet for finishing applications

**SCW200** - TiN coated carbide grade for heavier duty applications

**SCW300** - TiAlN coated carbide for higher speed applications



INSERT	DIMENSIONS					STOCK		
	l	w	t	D	r	TX520	SCW200	SCW300
XCET 031040 ER	0.866"	0.500"	0.177"	0.220"	0.016"	●	●	●

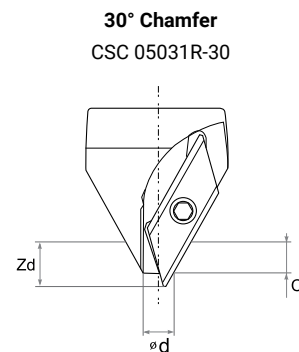


INSERT	DIMENSIONS					STOCK	
	L	W	T	D	R	TL120	LT30
APLT-347	0.6299"	0.375"	0.187"	-	0.015"	●	-
APTK-1604PDTR	0.6299"	0.375"	0.187"	-	-	-	●

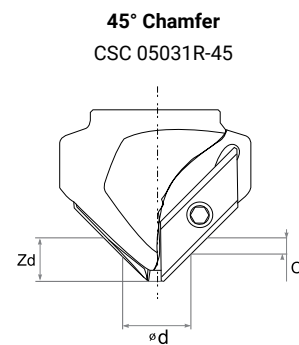
# CHAMFER MILL

In-Stock ● Two Week Delivery ○

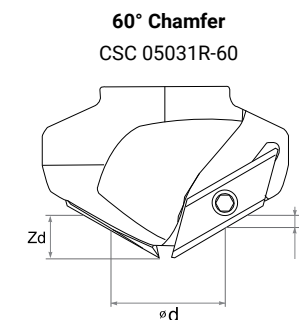
HOLE DIA. Ød	DIMENSIONS							
	0.5	1	1.5	2	2.5	3	3.5	4
5	0.8	1.3	1.8	2.3	2.8	-	-	-
6	1.7	2.2	2.7	3.2	3.7	-	-	-
6.8	2.4	2.9	3.4	3.9	4.4	-	-	-
8	3.4	3.9	4.4	4.9	5.4	-	-	-
8.5	3.8	4.3	4.8	5.3	5.8	-	-	-
10	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6
10.2	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8
12	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4
16	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8
17.5	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1
20	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2
21	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
24	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7
30	22.4	22.9	23.4	23.9	24.4	24.9	25.4	
33	24.9	25.4						



HOLE DIA. Ød	DIMENSIONS							
	0.5	1	1.5	2	3	4	5	
5	0.7	1.2	1.7	2.2	3.2	-	-	
6	1.2	1.7	2.2	2.7	3.7	-	-	
6.8	1.6	2.1	2.6	3.1	4.1	-	-	
8	2.2	2.7	3.2	3.7	4.7	-	-	
8.5	2.4	2.9	3.4	3.9	4.9	-	-	
10	3.2	3.7	4.2	4.7	5.7	6.7	7.7	
10.2	3.3	3.8	4.3	4.8	5.8	6.8	7.8	
12	4.2	4.7	5.2	5.7	6.7	7.7	8.7	
14	5.2	5.7	6.2	6.7	7.7	8.7	9.7	
16	6.2	6.7	7.2	7.7	8.7	9.7	10.7	
17.5	6.9	7.4	7.9	8.4	9.4	10.4	11.4	
20	8.2	8.7	9.2	9.7	10.7	11.7	12.7	
21	8.7	9.2	9.7	10.2	11.2	12.2	13.2	
24	10.2	10.7	11.2	11.7	12.7	13.7	14.7	
30	13.2	13.7	14.2	14.7	15.7	16.7	17.7	
33	14.7	15.2	15.7	16.2	17.2	18.2	19.2	
36	16.2	16.7	17.2	17.7	18.7	19.7		
42	19.2	19.7	20.2					



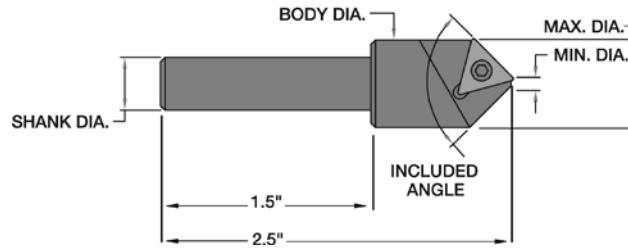
HOLE DIA. Ød	DIMENSIONS							
	0.5	1	1.5	2	2.5	3	3.5	
5	0.6	1.1	1.6	2.1	-	-	-	
6	0.9	1.4	1.9	2.4	-	-	-	
6.8	1.1	1.6	2.1	2.6	-	-	-	
8	1.4	1.9	2.4	2.9	-	-	-	
8.5	1.6	2.1	2.6	3.1	-	-	-	
10	2	2.5	3	3.5	4	4.5	5	
10.2	2.1	2.6	3.1	3.6	4.1	4.6	5.1	
12	2.6	3.1	3.6	4.1	4.6	5.1	5.6	
16	3.7	4.2	4.7	5.2	5.7	6.2	6.7	
17.5	4.2	4.7	5.2	5.7	6.2	6.7	7.2	
20	4.9	5.4	5.9	6.4	6.9	7.4	7.9	
21	5.2	5.7	6.2	6.7	7.2	7.7	8.2	
24	6.1	6.6	7.1	7.6	8.1	8.6	9.1	
30	7.8	8.3	8.8	9.3	9.8	10.3	10.8	
33	8.7	9.2	9.7	10.2	10.7	11.2	11.7	
36	9.5	10	10.5	11	11.5	12	12.5	
38	10.1	10.6	11.1	11.6	12.1	12.6	13.1	
42	11.2	11.7	12.2	12.7	13.2	13.7	14.2	
46	12.4	12.9	13.4	13.9	14.4			
48	13	13.5	14	14.5				
52	14.1							



# COUNTER SINKS

In-Stock ● Two Week Delivery ○

## Countersinks with Straight Shanks (Series IND)



PART NUMBER	INCLUDED ANGLE	BODY DIAMETER	SHANK DIAMETER	MAXIMUM DIAMETER	MINIMUM DIAMETER	INSERT	STOCK
IND-15-6-125	60°	1/2	3/8	.463	.125	TPGH-215	○
IND-16-8-125	82°	5/8	3/8	.583	.125	TPGH-215	○
IND-16-9-125	90°	5/8	3/8	.621	.125	TPGH-215	○
IND-17-1-125	100°	3/4	1/2	.719	.125	TPGH-215	○
IND-18-2-125	120°	7/8	1/2	.741	.125	TPGH-215	○
IND-18-3-125	130°	7/8	1/2	.771	.125	TPGH-215	○
IND-16-6-250	60°	5/8	3/8	.588	.250	TPGH-215	○
IND-17-8-250	82°	3/4	1/2	.708	.250	TPGH-215	○
IND-17-9-250	90°	3/4	1/2	.746	.250	TPGH-215	○
IND-18-1-250	100°	7/8	1/2	.844	.250	TPGH-215	○
IND-19-2-250	120°	1	1/2	.866	.250	TPGH-215	○
IND-19-3-250	130°	1	1/2	.896	.250	TPGH-215	○
IND-17-6-375	60°	3/4	1/2	.713	.375	TPGH-215	○
IND-18-8-375	82°	7/8	1/2	.833	.375	TPGH-215	○
IND-18-9-375	90°	7/8	1/2	.871	.375	TPGH-215	○
IND-19-1-375	100°	1	1/2	.969	.375	TPGH-215	○
IND-11.1-2-375	120°	1 1/8	1/2	.991	.375	TPGH-215	○
IND-11.1-3-375	130°	1 1/8	1/2	1.021	.375	TPGH-215	○
IND-18-6-500	60°	7/8	1/2	.838	.500	TPGH-215	○
IND-19-8-500	82°	1	1/2	.958	.500	TPGH-215	○
IND-11.1-9-500	90°	1 1/8	1/2	.996	.500	TPGH-215	○
IND-11.1-1-500	100°	1 1/8	1/2	1.094	.500	TPGH-215	○
IND-11.2-2-500	120°	1 1/4	1/2	1.116	.500	TPGH-215	○
IND-11.2-3-500	130°	1 1/4	1/2	1.145	.500	TPGH-215	○

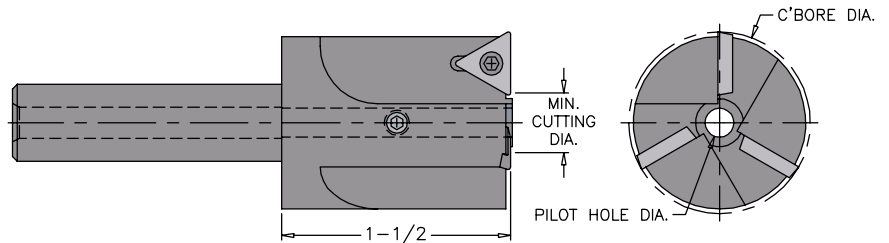
INDEXABLE

INSERT	DIMENSIONS					STOCK	
	L	W	T	D	R	TL120	LT30
TPGH-21.51							

# COUNTERBORES

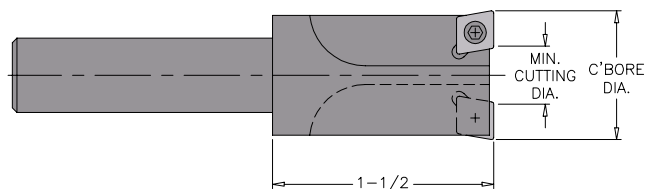
In-Stock ● Two Week Delivery ○

## Piloted Counterbores (Series INCB)



PART NUMBER	COUNTERBORE DIAMETER	SHANK DIAMETER	MINIMUM CUT DIAMETER	PILOT HOLE DIAMETER	INSERT	STOCK
INCB-1.000-188S	1	1/2	.214	3/16	TPGH-215	○
INCB-1.062-188S	1 1/16	1/2	.276	3/16	TPGH-215	○
INCB-1.125-188S	1 1/8	1/2	.337	3/16	TPGH-215	○
INCB-1.188-188S	1 3/16	1/2	.402	3/16	TPGH-215	○
INCB-1.250-312S	1 1/4	1/2	.464	5/16	TPGH-215	○
INCB-1.312-312S	1 5/16	1/2	.526	5/16	TPGH-215	○
INCB-1.375-312S	1 3/8	1/2	.589	5/16	TPGH-215	○
INCB-1.438-312S	1 7/16	1/2	.652	5/16	TPGH-215	○
INCB-1.500-312S	1 1/2	3/4	.714	5/16	TPGH-215	○
INCB-1.562-312S	1 9/16	3/4	.776	5/16	TPGH-215	○
INCB-1.625-312S	1 5/8	3/4	.839	5/16	TPGH-215	○
INCB-1.688-312S	1 11/16	3/4	.902	5/16	TPGH-215	○
INCB-1.750-438S	1 3/4	3/4	.964	7/16	TPGH-215	○
INCB-1.812-438S	1 13/16	3/4	1.026	7/16	TPGH-215	○
INCB-1.875-438S	1 7/8	3/4	1.089	7/16	TPGH-215	○
INCB-1.938-438S	1 15/16	3/4	1.152	7/16	TPGH-215	○
INCB-2.000-438S	2	1	1.214	7/16	TPGH-215	○

## Pilotless Counterbores (Series INCB)



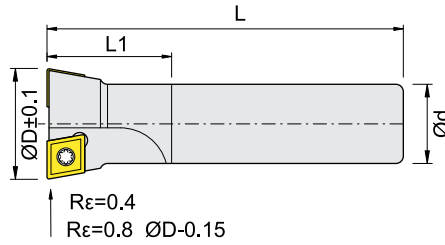
PART NUMBER	COUNTERBORE DIAMETER	MINIMUM CUT DIAMETER	INSERT	STOCK
INCB-625S	5/8	.148	CCGT-21.51	○
INCB-688S	11/16	.211	CCGT-21.51	○
INCB-750S	3/4	.273	CCGT-21.51	○
INCB-812S	13/16	.335	CCGT-21.51	○
INCB-875S	7/8	.398	CCGT-21.51	○
INCB-938S	15/16	.461	CCGT-21.51	○

INDEXABLE

# FIXED ROUGH BORING BARS

In-Stock ● Two Week Delivery ○

- Low cost for production applications
- Special sizes available upon request



								DIMENSIONS, MM				
ITEM CODE	L	ITEM CODE	L	ITEM CODE	L	ITEM CODE	L	D	d	L1	INSERT	TEETH
TB12-S16-120 ○	120	TB12-S16-160 ○	160	TB12-S16-200 ○	200	-	-	11.8	16	30	CC..060204	1
TB13-S16-120 ○	120	TB13-S16-160 ○	160	TB13-S16-200 ○	200	-	-	12.8	16	30	CC..060204	1
TB14-S16-120 ○	120	TB14-S16-160 ○	160	TB14-S16-200 ○	200	-	-	13.8	16	30	CC..060204	1
TB15-S16-120 ○	120	TB15-S16-160 ○	160	TB15-S16-200 ○	200	-	-	14.8	16	30	CC..060204	1
TB16-S16-120 ○	120	TB16-S16-160 ○	160	TB16-S16-200 ○	200	-	-	15.8	16	30	CC..060204	2
TB17-S16-120 ○	120	TB17-S16-160 ○	160	TB17-S16-200 ○	200	-	-	16.8	16	30	CC..060204	2
TB18-S16-120 ○	120	TB18-S16-160 ○	160	TB18-S16-200 ○	200	TB18-S16-250 ○	250	17.8	16	30	CC..060204	2
TB19-S16-120 ○	120	TB19-S16-160 ○	160	TB19-S16-200 ○	200	TB19-S16-250 ○	250	18.8	16	30	CC..060204	2
TB20-S16-120 ○	120	TB20-S16-160 ○	160	TB20-S16-200 ○	200	TB20-S16-250 ○	250	19.8	16	30	CC..060204	2
TB21-S16-120 ○	120	TB21-S16-160 ○	160	TB21-S16-200 ○	200	TB21-S16-250 ○	250	20.8	16	30	CC..060204	2
TB22-S16-120 ○	120	TB22-S16-160 ○	160	TB22-S16-200 ○	200	TB22-S16-250 ○	250	21.8	16	30	CC..060204	2
TB23-S20-130 ○	130	TB23-S20-160 ○	160	TB23-S20-200 ○	200	TB23-S20-250 ○	250	22.8	20	30	CC..060204	2
TB24-S20-130 ○	130	TB24-S20-160 ○	160	TB24-S20-200 ○	200	TB24-S20-250 ○	250	23.8	20	30	CC..060204	2
TB25-S20-130 ○	130	TB25-S20-160 ○	160	TB25-S20-200 ○	200	TB25-S20-250 ○	250	24.8	20	30	CC..060204	2
TB26-S20-130 ○	130	TB26-S20-160 ○	160	TB26-S20-200 ○	200	TB26-S20-250 ○	250	25.8	20	30	CC..09T304	2
TB27-S20-130 ○	130	TB27-S20-160 ○	160	TB27-S20-200 ○	200	TB27-S20-250 ○	250	26.8	20	30	CC..09T304	2
TB28-S20-130 ○	130	TB28-S20-160 ○	160	TB28-S20-200 ○	200	TB28-S20-250 ○	250	27.8	20	30	CC..09T304	2
TB29-S20-130 ○	130	TB29-S20-160 ○	160	TB29-S20-200 ○	200	TB29-S20-250 ○	250	28.8	20	30	CC..09T304	2
TB30-S25-160 ○	160	TB30-S25-200 ○	200	TB30-S25-250 ○	250	TB30-S25-300 ○	300	29.8	25	40	CC..09T304	2
TB31-S25-160 ○	160	TB31-S25-200 ○	200	TB31-S25-250 ○	250	TB31-S25-300 ○	300	30.8	25	40	CC..09T304	2
TB32-S25-160 ○	160	TB32-S25-200 ○	200	TB32-S25-250 ○	250	TB32-S25-300 ○	300	31.8	25	40	CC..09T304	2
TB33-S25-160 ○	160	TB33-S25-200 ○	200	TB33-S25-250 ○	250	TB33-S25-300 ○	300	32.8	25	40	CC..09T304	2
TB34-S25-160 ○	160	TB34-S25-200 ○	200	TB34-S25-250 ○	250	TB34-S25-300 ○	300	33.8	25	40	CC..09T304	2
TB35-S25-160 ○	160	TB35-S25-200 ○	200	TB35-S25-250 ○	250	TB35-S25-300 ○	300	34.8	25	40	CC..09T304	2
TB36-S25-160 ○	160	TB36-S25-200 ○	200	TB36-S25-250 ○	250	TB36-S25-300 ○	300	35.8	25	40	CC..09T304	2
TB37-S25-160 ○	160	TB37-S25-200 ○	200	TB37-S25-250 ○	250	TB37-S25-300 ○	300	36.8	25	40	CC..09T304	2
TB38-S25-160 ○	160	TB38-S25-200 ○	200	TB38-S25-250 ○	250	TB38-S25-300 ○	300	37.8	25	40	CC..09T304	2
TB39-S25-160 ○	160	TB39-S25-200 ○	200	TB39-S25-250 ○	250	TB39-S25-300 ○	300	38.8	25	40	CC..09T304	2
TB40-S25-160 ○	160	TB40-S25-200 ○	200	TB40-S25-250 ○	250	TB40-S25-300 ○	300	39.8	25	40	CC..09T304	2
TB41-S32-200 ○	200	TB41-S32-250 ○	250	TB41-S32-300 ○	300	TB41-S32-350 ○	350	40.8	32	45	CC..09T304	2
TB42-S32-200 ○	200	TB42-S32-250 ○	250	TB42-S32-300 ○	300	-	-	41.8	32	45	CC..09T304	2
TB43-S32-200 ○	200	TB43-S32-250 ○	250	TB43-S32-300 ○	300	-	-	42.8	32	45	CC..09T304	2
TB44-S32-200 ○	200	TB44-S32-250 ○	250	TB44-S32-300 ○	300	-	-	43.8	32	45	CC..09T304	2
TB45-S32-200 ○	200	TB45-S32-250 ○	250	TB45-S32-300 ○	300	-	-	44.8	32	45	CC..09T304	2
TB46-S32-200 ○	200	TB46-S32-250 ○	250	TB46-S32-300 ○	300	-	-	45.8	32	45	CC..09T304	2
TB47-S32-200 ○	200	TB47-S32-250 ○	250	TB47-S32-300 ○	300	-	-	46.8	32	45	CC..09T304	2
TB48-S32-200 ○	200	TB48-S32-250 ○	250	TB48-S32-300 ○	300	-	-	47.8	32	45	CC..09T304	2
TB49-S32-200 ○	200	TB49-S32-250 ○	250	TB49-S32-300 ○	300	-	-	48.8	32	45	CC..09T304	2
TB50-S32-200 ○	200	TB50-S32-250 ○	250	TB50-S32-300 ○	300	-	-	49.8	32	45	CC..09T304	2
TB51-S32-200 ○	200	TB51-S32-250 ○	250	TB51-S32-300 ○	300	-	-	50.8	32	45	CC..09T304	2
TB52-S32-200 ○	200	TB52-S32-250 ○	250	TB52-S32-300 ○	300	-	-	51.8	32	45	CC..09T304	2
TB53-S32-200 ○	200	TB53-S32-250 ○	250	TB53-S32-300 ○	300	-	-	52.8	32	45	CC..09T304	2
TB54-S32-200 ○	200	TB54-S32-250 ○	250	TB54-S32-300 ○	300	-	-	53.8	32	45	CC..09T304	2
TB55-S32-200 ○	200	TB55-S32-250 ○	250	TB55-S32-300 ○	300	-	-	54.8	32	45	CC..09T304	2
TB56-S32-200 ○	200	TB56-S32-250 ○	250	TB56-S32-300 ○	300	-	-	55.8	32	45	CC..09T304	2
TB57-S32-200 ○	200	TB57-S32-250 ○	250	TB57-S32-300 ○	300	-	-	56.8	32	45	CC..09T304	2

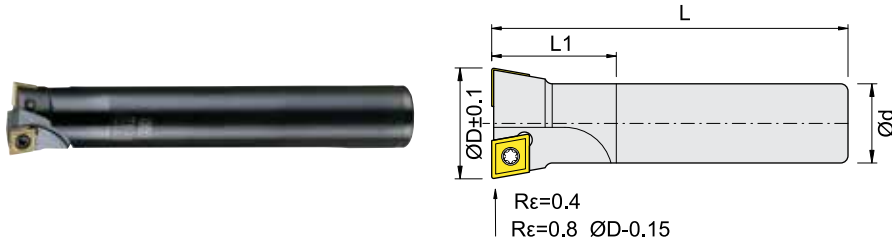
Continued on next page ➔

INDEXABLE



# FIXED ROUGH BORING BARS

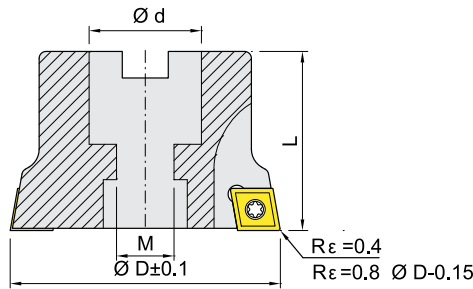
In-Stock ● Two Week Delivery ○



INDEXABLE

								DIMENSIONS, MM				
ITEM CODE	L	ITEM CODE	L	ITEM CODE	L	ITEM CODE	L	D	d	L1	INSERT	TEETH
TB12E-S16-120 ○	120	TB12E-S16-160 ○	160	TB12E-S16-200 ○	200	-	-	12	16	30	CC..060204	1
TB13E-S16-120 ○	120	TB13E-S16-160 ○	160	TB13E-S16-200 ○	200	-	-	13	16	30	CC..060204	1
TB14E-S16-120 ○	120	TB14E-S16-160 ○	160	TB14E-S16-200 ○	200	-	-	14	16	30	CC..060204	1
TB15E-S16-120 ○	120	TB15E-S16-160 ○	160	TB15E-S16-200 ○	200	-	-	15	16	30	CC..060204	1
TB16E-S16-120 ○	120	TB16E-S16-160 ○	160	TB16E-S16-200 ○	200	-	-	16	16	30	CC..060204	2
TB17E-S16-120 ○	120	TB17E-S16-160 ○	160	TB17E-S16-200 ○	200	-	-	17	16	30	CC..060204	2
TB18E-S16-120 ○	120	TB18E-S16-160 ○	160	TB18E-S16-200 ○	200	TB18-S16-250 ○	250	18	16	30	CC..060204	2
TB19E-S16-120 ○	120	TB19E-S16-160 ○	160	TB19E-S16-200 ○	200	TB19-S16-250 ○	250	19	16	30	CC..060204	2
TB20E-S16-120 ○	120	TB20E-S16-160 ○	160	TB20E-S16-200 ○	200	TB20-S16-250 ○	250	20	16	30	CC..060204	2
TB21E-S16-120 ○	120	TB21E-S16-160 ○	160	TB21E-S16-200 ○	200	TB21-S16-250 ○	250	21	16	30	CC..060204	2
TB22E-S16-120 ○	120	TB22E-S16-160 ○	160	TB22E-S16-200 ○	200	TB22-S16-250 ○	250	22	16	30	CC..060204	2
TB23E-S20-130 ○	130	TB23E-S20-160 ○	160	TB23E-S20-200 ○	200	TB23-S20-250 ○	250	23	20	30	CC..060204	2
TB24E-S20-130 ○	130	TB24E-S20-160 ○	160	TB24E-S20-200 ○	200	TB24-S20-250 ○	250	24	20	30	CC..060204	2
TB25E-S20-130 ○	130	TB25E-S20-160 ○	160	TB25E-S20-200 ○	200	TB25-S20-250 ○	250	25	20	30	CC..060204	2
TB26E-S20-130 ○	130	TB26E-S20-160 ○	160	TB26E-S20-200 ○	200	TB26-S20-250 ○	250	26	20	30	CC..09T304	2
TB27E-S20-130 ○	130	TB27E-S20-160 ○	160	TB27E-S20-200 ○	200	TB27-S20-250 ○	250	27	20	30	CC..09T304	2
TB28E-S20-130 ○	130	TB28E-S20-160 ○	160	TB28E-S20-200 ○	200	TB28-S20-250 ○	250	28	20	30	CC..09T304	2
TB29E-S20-130 ○	130	TB29E-S20-160 ○	160	TB29E-S20-200 ○	200	TB29-S20-250 ○	250	29	20	30	CC..09T304	2
TB30E-S25-160 ○	160	TB30E-S25-200 ○	200	TB30E-S25-250 ○	250	TB30-S25-300 ○	300	30	25	40	CC..09T304	2
TB31E-S25-160 ○	160	TB31E-S25-200 ○	200	TB31E-S25-250 ○	250	TB31-S25-300 ○	300	31	25	40	CC..09T304	2
TB32E-S25-160 ○	160	TB32E-S25-200 ○	200	TB32E-S25-250 ○	250	TB32-S25-300 ○	300	32	25	40	CC..09T304	2
TB33E-S25-160 ○	160	TB33E-S25-200 ○	200	TB33E-S25-250 ○	250	TB33-S25-300 ○	300	33	25	40	CC..09T304	2
TB34E-S25-160 ○	160	TB34E-S25-200 ○	200	TB34E-S25-250 ○	250	TB34-S25-300 ○	300	34	25	40	CC..09T304	2
TB35E-S25-160 ○	160	TB35E-S25-200 ○	200	TB35E-S25-250 ○	250	TB35-S25-300 ○	300	35	25	40	CC..09T304	2
TB36E-S25-160 ○	160	TB36E-S25-200 ○	200	TB36E-S25-250 ○	250	TB36-S25-300 ○	300	36	25	40	CC..09T304	2
TB37E-S25-160 ○	160	TB37E-S25-200 ○	200	TB37E-S25-250 ○	250	TB37-S25-300 ○	300	37	25	40	CC..09T304	2
TB38E-S25-160 ○	160	TB38E-S25-200 ○	200	TB38E-S25-250 ○	250	TB38-S25-300 ○	300	38	25	40	CC..09T304	2
TB39E-S25-160 ○	160	TB39E-S25-200 ○	200	TB39E-S25-250 ○	250	TB39-S25-300 ○	300	39	25	40	CC..09T304	2
TB40E-S25-160 ○	160	TB40E-S25-200 ○	200	TB40E-S25-250 ○	250	TB40-S25-300 ○	300	40	25	40	CC..09T304	2
TB41E-S32-200 ○	200	TB41E-S32-250 ○	250	TB41E-S32-300 ○	300	TB41-S32-350 ○	350	41	32	45	CC..09T304	2
TB42E-S32-200 ○	200	TB42E-S32-250 ○	250	TB42E-S32-300 ○	300	-	-	42	32	45	CC..09T304	2
TB43E-S32-200 ○	200	TB43E-S32-250 ○	250	TB43E-S32-300 ○	300	-	-	43	32	45	CC..09T304	2
TB44E-S32-200 ○	200	TB44E-S32-250 ○	250	TB44E-S32-300 ○	300	-	-	44	32	45	CC..09T304	2
TB45E-S32-200 ○	200	TB45E-S32-250 ○	250	TB45E-S32-300 ○	300	-	-	45	32	45	CC..09T304	2
TB46E-S32-200 ○	200	TB46E-S32-250 ○	250	TB46E-S32-300 ○	300	-	-	46	32	45	CC..09T304	2
TB47E-S32-200 ○	200	TB47E-S32-250 ○	250	TB47E-S32-300 ○	300	-	-	47	32	45	CC..09T304	2
TB48E-S32-200 ○	200	TB48E-S32-250 ○	250	TB48E-S32-300 ○	300	-	-	48	32	45	CC..09T304	2
TB49E-S32-200 ○	200	TB49E-S32-250 ○	250	TB49E-S32-300 ○	300	-	-	49	32	45	CC..09T304	2
TB50E-S32-200 ○	200	TB50E-S32-250 ○	250	TB50E-S32-300 ○	300	-	-	50	32	45	CC..09T304	2
TB51E-S32-200 ○	200	TB51E-S32-250 ○	250	TB51E-S32-300 ○	300	-	-	51	32	45	CC..09T304	2
TB52E-S32-200 ○	200	TB52E-S32-250 ○	250	TB52E-S32-300 ○	300	-	-	52	32	45	CC..09T304	2
TB53E-S32-200 ○	200	TB53E-S32-250 ○	250	TB53E-S32-300 ○	300	-	-	53	32	45	CC..09T304	2
TB54E-S32-200 ○	200	TB54E-S32-250 ○	250	TB54E-S32-300 ○	300	-	-	54	32	45	CC..09T304	2
TB55E-S32-200 ○	200	TB55E-S32-250 ○	250	TB55E-S32-300 ○	300	-	-	55	32	45	CC..09T304	2
TB56E-S32-200 ○	200	TB56E-S32-250 ○	250	TB56E-S32-300 ○	300	-	-	56	32	45	CC..09T304	2
TB57E-S32-200 ○	200	TB57E-S32-250 ○	250	TB57E-S32-300 ○	300	-	-	57	32	45	CC..09T304	2

# FIXED ROUGH BORING BARS



In-Stock ● Two Week Delivery ○

ITEM CODE (d=22.0)	ITEM CODE (d=25.4)	INSERT	ITEM CODE (d=22.0,25.4)	INSERT	Rε=0.4	TEETH			
TB45-22.0-CC09	○	-	CC..09T304	-	CC..120404	44.8	2		
TB46-22.0-CC09	○	-	CC..09T304	-	CC..120404	45.8	2		
TB47-22.0-CC09	○	-	CC..09T304	-	CC..120404	46.8	2		
TB48-22.0-CC09	○	-	CC..09T304	-	CC..120404	47.8	2		
TB49-22.0-CC09	○	-	CC..09T304	-	CC..120404	48.8	2		
TB50-22.0-CC09	○	TB50-25.4-CC09	○	CC..09T304	-	CC..120404	49.8	2	
TB51-22.0-CC09	○	TB51-25.4-CC09	○	CC..09T304	-	CC..120404	50.8	2	
TB52-22.0-CC09	○	TB52-25.4-CC09	○	CC..09T304	-	CC..120404	51.8	2	
TB53-22.0-CC09	○	TB53-25.4-CC09	○	CC..09T304	-	CC..120404	52.8	2	
TB54-22.0-CC09	○	TB54-25.4-CC09	○	CC..09T304	-	CC..120404	53.8	2	
TB55-22.0-CC09	○	TB55-25.4-CC09	○	CC..09T304	TB55-22.0-CC12	○	CC..120404	54.8	2
TB56-22.0-CC09	○	TB50-25.4-CC09	○	CC..09T304	TB56-22.0-CC12	○	CC..120404	55.8	2
TB57-22.0-CC09	○	TB51-25.4-CC09	○	CC..09T304	TB57-22.0-CC12	○	CC..120404	56.8	2
TB58-22.0-CC09	○	TB52-25.4-CC09	○	CC..09T304	TB58-22.0-CC12	○	CC..120404	57.8	2
TB59-22.0-CC09	○	TB53-25.4-CC09	○	CC..09T304	TB59-22.0-CC12	○	CC..120404	58.8	2
TB60-22.0-CC09	○	TB54-25.4-CC09	○	CC..09T304	TB60-22.0-CC12	○	CC..120404	59.8	2
TB61-22.0-CC09	○	TB55-25.4-CC09	○	CC..09T304	TB61-25.4-CC12	○	CC..120404	60.8	2
TB462-22.0-CC09	○	TB50-25.4-CC09	○	CC..09T304	TB62-25.4-CC12	○	CC..120404	61.8	2
TB63-22.0-CC09	○	TB51-25.4-CC09	○	CC..09T304	TB63-25.4-CC12	○	CC..120404	62.8	2
TB64-22.0-CC09	○	TB52-25.4-CC09	○	CC..09T304	TB64-25.4-CC12	○	CC..120404	63.8	2
TB65-22.0-CC09	○	TB53-25.4-CC09	○	CC..09T304	TB65-25.4-CC12	○	CC..120404	64.8	2
TB66-22.0-CC09	○	TB54-25.4-CC09	○	CC..09T304	TB66-25.4-CC12	○	CC..120404	65.8	2
TB67-22.0-CC09	○	TB55-25.4-CC09	○	CC..09T304	TB67-25.4-CC12	○	CC..120404	66.8	2
TB68-22.0-CC09	○	TB68-25.4-CC09	○	CC..09T304	TB68-25.4-CC12	○	CC..120404	67.8	2
TB69-22.0-CC09	○	TB69-25.4-CC09	○	CC..09T304	TB69-25.4-CC12	○	CC..120404	68.8	2
TB70-22.0-CC09	○	TB70-25.4-CC09	○	CC..09T304	TB70-25.4-CC12	○	CC..120404	69.8	2
TB71-22.0-CC09	○	TB71-25.4-CC09	○	CC..09T304	TB71-25.4-CC12	○	CC..120404	70.8	2
TB72-22.0-CC09	○	TB72-25.4-CC09	○	CC..09T304	TB72-25.4-CC12	○	CC..120404	71.8	2
-		TB73-25.4-CC09	○	CC..09T304	TB73-25.4-CC12	○	CC..120404	72.8	2
-		TB74-25.4-CC09	○	CC..09T304	TB74-25.4-CC12	○	CC..120404	73.8	2
TB75-22.0-CC09	○	TB75-25.4-CC09	○	CC..09T304	TB75-25.4-CC12	○	CC..120404	74.8	2
		TB76-25.4-CC09	○	CC..09T304	TB76-25.4-CC12	○	CC..120404	75.8	2
		TB77-25.4-CC09	○	CC..09T304	TB77-25.4-CC12	○	CC..120404	76.8	2
		TB78-25.4-CC09	○	CC..09T304	TB78-25.4-CC12	○	CC..120404	77.8	2
		TB79-25.4-CC09	○	CC..09T304	TB79-25.4-CC12	○	CC..120404	78.8	2
		TB80-25.4-CC09	○	CC..09T304	TB80-25.4-CC12	○	CC..120404	79.8	2
		TB81-25.4-CC09	○	CC..09T304	TB81-25.4-CC12	○	CC..120404	80.8	2
		TB82-25.4-CC09	○	CC..09T304	TB82-25.4-CC12	○	CC..120404	81.8	2
		-	-	-	TB83-25.4-CC12	○	CC..120404	82.8	2
		TB84-25.4-CC09	○	CC..09T304	TB84-25.4-CC12	○	CC..120404	83.8	2
		TB85-25.4-CC09	○	CC..09T304	TB85-25.4-CC12	○	CC..120404	84.8	2
		TB86-25.4-CC09	○	CC..09T304	TB86-25.4-CC12	○	CC..120404	85.8	2
		-	-	-	TB87-25.4-CC12	○	CC..120404	86.8	2
		TB88-25.4-CC09	○	CC..09T304	TB88-25.4-CC12	○	CC..120404	87.8	2
		-	-	-	TB89-25.4-CC12	○	CC..120404	88.8	2
		TB90-25.4-CC09	○	CC..09T304	TB90-25.4-CC12	○	CC..120404	89.8	2
		-	-	-	TB91-25.4-CC12	○	CC..120404	90.8	2
		TB92-25.4-CC09	○	CC..09T304	TB92-25.4-CC12	○	CC..120404	91.8	2

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INDEXABLE

# FIXED ROUGH BORING BARS

In-Stock ● Two Week Delivery ○



INDEXABLE

ITEM CODE (d=25.4)	INSERT	ITEM CODE (d=22.0,25.4)	ITEM CODE (d=31.75)	INSERT	Re=0.4	TEETH
-	-	TB93-25.4-CC12 ○	-	CC..120404	92.8	2
TB94-25.4-CC09 ○	CC..09T304	TB94-25.4-CC12 ○	-	CC..120404	93.8	2
TB95-25.4-CC09 ○	CC..09T304	TB95-25.4-CC12 ○	-	CC..120404	94.8	2
TB96-25.4-CC09 ○	CC..09T304	TB96-25.4-CC12 ○	-	CC..120404	95.8	2
-	-	TB97-25.4-CC12 ○	-	CC..120404	96.8	2
TB98-25.4-CC09 ○	CC..09T304	TB98-25.4-CC12 ○	-	CC..120404	97.8	2
-	-	TB99-25.4-CC12 ○	-	CC..120404	98.8	2
TB100-25.4-CC09 ○	CC..09T304	TB100-25.4-CC12 ○	TB100-31.75-CC12 ○	CC..120404	99.8	2
-	-	TB101-25.4-CC12 ○	TB101-31.75-CC12 ○	CC..120404	100.8	2
-	-	TB102-25.4-CC12 ○	TB102-31.75-CC12 ○	CC..120404	101.8	2
-	-	-	TB103-31.75-CC12 ○	CC..120404	102.8	2
TB104-25.4-CC09 ○	CC..09T304	-	TB104-31.75-CC12 ○	CC..120404	103.8	2
TB105-25.4-CC09 ○	CC..09T304	TB105-25.4-CC12 ○	TB105-31.75-CC12 ○	CC..120404	104.8	2
-	-	-	TB106-31.75-CC12 ○	CC..120404	105.8	2
-	-	-	TB107-31.75-CC12 ○	CC..120404	106.8	2
-	-	-	TB108-31.75-CC12 ○	CC..120404	107.8	2
-	-	-	TB109-31.75-CC12 ○	CC..120404	108.8	2
-	-	TB110-25.4-CC12 ○	TB110-31.75-CC12 ○	CC..120404	109.8	2
-	-	-	TB111-31.75-CC12 ○	CC..120404	110.8	2
TB112-25.4-CC09 ○	CC..09T304	TB112-25.4-CC12 ○	TB112-31.75-CC12 ○	CC..120404	111.8	2
-	-	-	TB113-31.75-CC12 ○	CC..120404	112.8	2
-	-	-	TB114-31.75-CC12 ○	CC..120404	113.8	2
TB115-25.4-CC09 ○	CC..09T304	TB115-25.4-CC12 ○	TB115-31.75-CC12 ○	CC..120404	114.8	2
-	-	-	TB116-31.75-CC12 ○	CC..120404	115.8	2
-	-	-	TB117-31.75-CC12 ○	CC..120404	116.8	2
-	-	TB118-25.4-CC12 ○	TB118-31.75-CC12 ○	CC..120404	117.8	2
-	-	-	TB119-31.75-CC12 ○	CC..120404	118.8	2
TB120-25.4-CC09 ○	CC..09T304	TB120-25.4-CC12 ○	TB120-31.75-CC12 ○	CC..120404	119.8	2
-	-	-	TB121-31.75-CC12 ○	CC..120404	120.8	2
TB122-25.4-CC09 ○	CC..09T304	-	TB122-31.75-CC12 ○	CC..120404	121.8	2
-	-	-	TB123-31.75-CC12 ○	CC..120404	122.8	2
-	-	-	TB124-31.75-CC12 ○	CC..120404	123.8	2
-	-	-	TB125-31.75-CC12 ○	CC..120404	124.8	2
-	-	-	TB126-31.75-CC12 ○	CC..120404	125.8	2
-	-	-	TB127-31.75-CC12 ○	CC..120404	126.8	2
-	-	-	TB128-31.75-CC12 ○	CC..120404	127.8	2
-	-	-	TB129-31.75-CC12 ○	CC..120404	128.8	2
-	-	-	TB130-31.75-CC12 ○	CC..120404	129.8	2
-	-	-	TB131-31.75-CC12 ○	CC..120404	130.8	2
-	-	-	TB132-31.75-CC12 ○	CC..120404	131.8	2
-	-	-	TB133-31.75-CC12 ○	CC..120404	132.8	2
-	-	-	TB134-31.75-CC12 ○	CC..120404	133.8	2
-	-	-	TB135-31.75-CC12 ○	CC..120404	134.8	2
-	-	-	TB136-31.75-CC12 ○	CC..120404	135.8	2
-	-	-	TB137-31.75-CC12 ○	CC..120404	136.8	2
-	-	-	TB138-31.75-CC12 ○	CC..120404	137.8	2
-	-	-	TB139-31.75-CC12 ○	CC..120404	138.8	2
-	-	-	TB140-31.75-CC12 ○	CC..120404	139.8	2

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# FIXED ROUGH BORING BARS

In-Stock ● Two Week Delivery ○

FIGURE 1

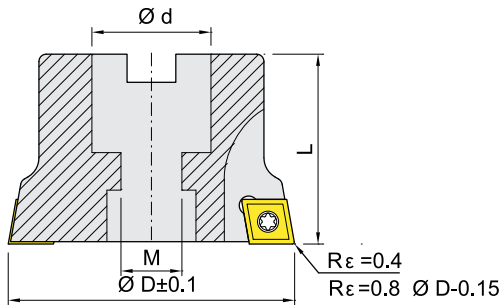


FIGURE 2

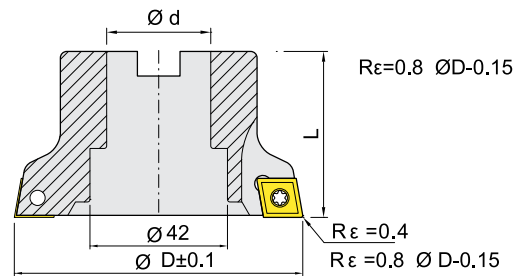


FIGURE 1

ITEM CODE (D=31.75)	INSERT	Re=0.4	TEETH
TB141-31.75-CC12	○	CC..120404	140.8 2
TB142-31.75-CC12	○	CC..120404	141.8 2
TB143-31.75-CC12	○	CC..120404	142.8 2
TB144-31.75-CC12	○	CC..120404	143.8 2
TB145-31.75-CC12	○	CC..120404	144.8 2
TB146-31.75-CC12	○	CC..120404	145.8 2
TB147-31.75-CC12	○	CC..120404	146.8 2
TB148-31.75-CC12	○	CC..120404	147.8 2
TB149-31.75-CC12	○	CC..120404	148.8 2
TB150-31.75-CC12	○	CC..120404	149.8 2
TB151-31.75-CC12	○	CC..120404	150.8 2
TB155-31.75-CC12	○	CC..120404	151.8 2
TB156-31.75-CC12	○	CC..120404	152.8 2
TB160-31.75-CC12	○	CC..120404	153.8 2
TB161-31.75-CC12	○	CC..120404	154.8 2
TB165-31.75-CC12	○	CC..120404	155.8 2
TB170-31.75-CC12	○	CC..120404	156.8 2
TB175-31.75-CC12	○	CC..120404	157.8 2
TB180-31.75-CC12	○	CC..120404	158.8 2
TB185-31.75-CC12	○	CC..120404	159.8 2
TB187-31.75-CC12	○	CC..120404	160.8 2
TB190-31.75-CC12	○	CC..120404	161.8 2
TB195-31.75-CC12	○	CC..120404	162.8 2
TB200-31.75-CC12	○	CC..120404	163.8 2
TB201-31.75-CC12	○	CC..120404	164.8 2

FIGURE 2

ITEM CODE (D=31.75)	INSERT	D Re=0.4	TEETH
TB100-31.75-CC12F	○	CC..120404	99.8 2
TB105-31.75-CC12F	○	CC..120404	104.8 2
TB110-31.75-CC12F	○	CC..120404	109.8 2
TB115-31.75-CC12F	○	CC..120404	114.8 2
TB120-31.75-CC12F	○	CC..120404	119.8 2

INSERT	SCREW	WRENCH
CC...060204	MS2506A	ETF09
CC...09T304	MS\$011A	ETF15
CC...120404	MS5011A	ETF20

DIMENSIONS, mm	D	M	L
TB...-22.0-...	22	11	50
TB...-25.4-...	25.4	13	50
TB...-31.75-...	31.75	13	50

INDEXABLE

# FIXED ROUGH BORING BARS

FIGURE 1

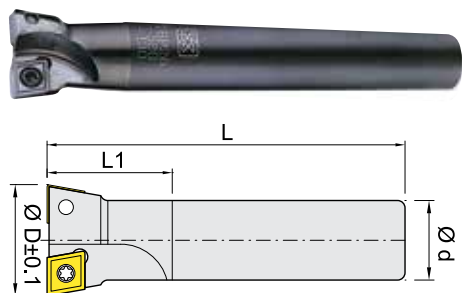


FIGURE 2

In-Stock ● Two Week Delivery ○

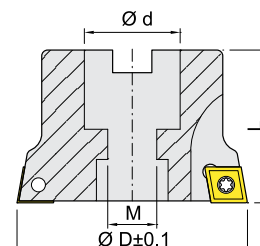


FIGURE 1

ITEM CODE	DIMENSIONS, MM				TEETH	INSERT	SCREW	WRENCH	STOCK
	D	D	L	L1					
TBP26-S20-130	25.8	20	130	30	2	CP...090308	MS4009A	ETF15	○
TBP40-S32-120	39.8	32	120	40	3	CP...090308	MS4011A	ETF15	○

FIGURE 2

ITEM CODE	DIMENSIONS, MM				TEETH	INSERT	SCREW	WRENCH	STOCK
	D	d	L	L1					
TBP70-25.4-CP09	69.8	25.4	50	-	4	CP...090308	MS4009A	ETF15	○
TBP100-25.4-CP09	99.8	25.4	50	-	4	CP...090308	MS4011A	ETF15	○

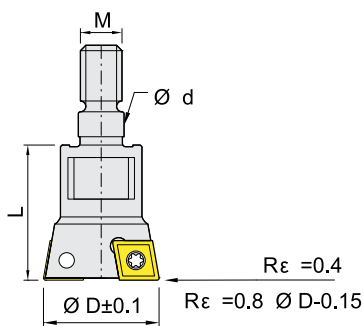


FIGURE 2

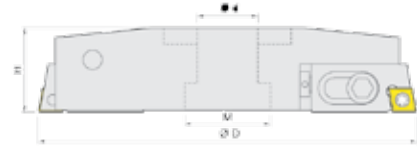
ITEM CODE	DIMENSIONS, MM				TEETH	INSERT	SCREW	WRENCH	STOCK
	D	d	L	L1					
TB13-MD11	12.8	6.5	18	M6	1	CC...060204	MS2506A	ETF09	○
TB14-MD1	13.8	6.5	18	M6	1	CC...060204	MS2506A	ETF09	○
TB15-MD11	14.8	6.5	18	M6	1	CC...060204	MS2506A	ETF09	○
TB16-MD11	15.8	6.5	18	M6	2	CC...060204	MS2506A	ETF09	○
TB16-MD11-M08	15.8	8.5	20	M8	2	CC...060204	MS2506A	ETF09	○
TB18-MD15-M08	17.8	8.5	23	M8	2	CC...060204	MS2506A	ETF09	○
TB20-MD14-M08	19.8	8.5	23	M8	2	CC...060204	MS2506A	ETF09	○
TB20-MD19-M10	19.8	10.5	30	M10	2	CC...060204	MS2506A	ETF09	○
TB22-MD19-M10	21.8	10.5	30	M10	2	CC...060204	MS2506A	ETF09	○
TB25-MD19-M10	24.8	10.5	30	M10	2	CC...060204	MS2506A	ETF09	○

# ADJUSTABLE ROUGH BORING BARS

- Fits onto standard shell mill arbor.

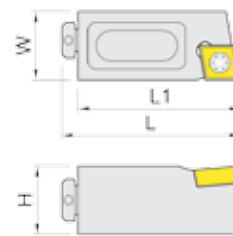


In-Stock ● Two Week Delivery ○



ITEM CODE	RANGE		DIMENSIONS, MM			TEETH	CARTRIDGES	SCREW	STOCK
	Dmin	Dmax	d	M	H				
TBJ175-25-31.75	175	200	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ200-25-31.75	200	225	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ225-25-31.75	225	250	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ250-25-31.75	250	275	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ275-25-31.75	275	300	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ300-25-31.75	300	325	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ325-25-31.75	325	350	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ350-25-31.75	350	375	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ375-25-31.75	375	400	31.75	45	43	2	TBJS925-CC12	HTM1035	●
TBJ400-25-31.75	400	425	31.75	45	43	2	TBJS925-CC12	HTM1035	●

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ITEM CODE	DIMENSIONS, MM					INSERT	SCREW	SCREW	WRENCH	STOCK
	H	W	W1	L1	L					
TBJS925-CC12	25	25	25	60	55	CC..1204..	RTM830	MS5011A	ETF20	●

\*Inserts - see page 114

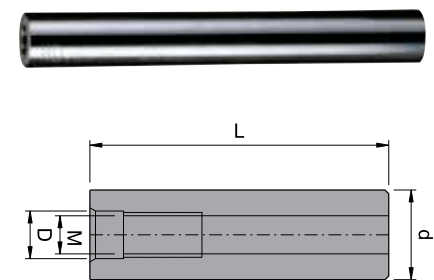
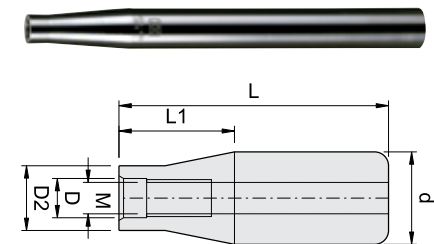
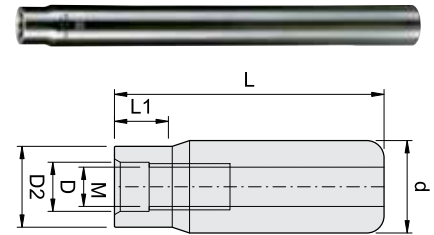
# EXTENTION ADAPTER

In-Stock ● Two Week Delivery ○

ITEM CODE	DIMENSIONS						STOCK
	d	L	M	D	D2	L1	
MD11-A12-120K	12	120	M6	6.5	11	10	○
MD14-A16-150K	16	150	M8	8.5	14	10	●
MD14-A16-200K	16	200	M8	8.5	14	10	●
MD18-A20-150K	20	150	M10	10.5	18	12	●
MD18-A20-250K	20	250	M10	10.5	18	12	●
MD23-A25-200K	25	200	M12	12.5	23	15	○
MD23-A25-300K	25	300	M12	12.5	23	15	○
MD29-A32-200K	32	200	M16	17	29	18	○
MD29-A32-350K	32	350	M16	17	29	18	○

MD11-A16-150K	16	150	M6	6.5	11	23	○
MD11-A16-200K	16	200	M6	6.5	11	23	○
MD14-A20-200K	20	200	M8	8.5	14	50	○
MD14-A20-250K	20	250	M8	8.5	14	50	○
MD18-A25-200K	25	200	M10	10.5	18	60	○
MD18-A25-250K	25	250	M10	10.5	18	60	○
MD23-A32-250K	32	250	M12	12.5	23	70	○
MD23-A32-350K	32	350	M12	12.5	23	70	○
MD29-A42-250K	42	250	M16	17	29	100	○
MD29-A42-350K	42	350	M16	17	29	100	○

HD08-060-M4	8	60	M4	4.5	-	-	○
HD08-100-M4	8	100	M4	4.5	-	-	○
H208-120-M4	8	120	M4	4.5	-	-	○
HD10-075-M5	10	75	M5	5.5	-	-	○
HD10-100-M5	10	100	M5	5.5	-	-	○
HD10-150-M5	10	150	M5	5.5	-	-	○
HD12-100-M6	12	100	M6	6.5	-	-	○
HD12-150-M6	12	150	M6	6.5	-	-	○
HD12-200-M6	12	200	M6	6.5	-	-	○
HD16-100-M8	16	100	M8	8.5	-	-	○
HD16-150-M8	16	150	M8	8.5	-	-	○
HD16-200-M8	16	200	M8	8.5	-	-	○
HD20-100-M10	20	100	M10	10.5	-	-	○
HD20-150-M10	20	150	M10	10.5	-	-	○
HD20-200-M10	20	200	M10	10.5	-	-	○
HD20-300-M10	20	300	M10	10.5	-	-	○
HD25-100-M12	25	100	M12	12.5	-	-	○
HD25-150-M12	25	150	M12	12.5	-	-	○
HD25-200-M12	25	200	M12	12.5	-	-	○
HD25-300-M12	25	300	M12	12.5	-	-	○
HD32-150-M16	32	150	M16	17	-	-	○
HD32-200-M16	32	200	M16	17	-	-	○
HD32-300-M16	32	300	M16	17	-	-	○
HD32-400-M16	32	400	M16	17	-	-	○



INDEXABLE

# QUICK CHANGE HIGH SPEED BORING BAR

In-Stock ● Two Week Delivery ○

## Quick Change High Speed Boring Bar

### Interchangeable Boring Bars from Diameters of 5 mm to 50 mm

- This simple boring tool has minimal components.
- In minutes, the boring bar may be changed and the boring dimension set on the tool presetter.

### Low Cost For Machining Small Holes

- The cost of this product is low compared to other micro adjustable boring heads.

### High Speed

- Boring bar design ensures accurate high speed boring. Grade balance is G6.3 10000 r.p.m., all sizes are guaranteed.
- Surface speeds of carbide inserts up to 700 m/min.
- Combination bore / chamfer / facing tools can be ordered on request.

### Procedures For Assembly

1. Use 4 mm allen-key to loosen locking screw M8, take care not to remove the screw.
2. Use 3 mm allen-key to loosen pre-load screw M6, take care not to remove the screw.
3. Remove the original boring bar and insert the new boring bar.
4. Tighten the M6 pre-load screw using the torque screwdriver with hex head key. (Recommended torque = 0.9~1.0 Nm)
5. Ensure the boring head and boring bar fit together securely.
6. Measure the boring diameter of the boring bar using tool presetter and adjust it to the required diameter.
7. Tighten the M8 locking screw using the torque screwdriver with hex head key (Recommended torque = 8~9Nm)



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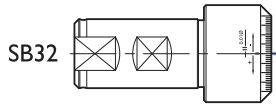
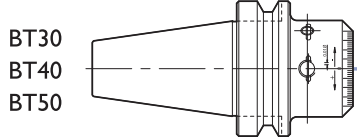
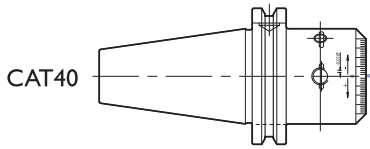
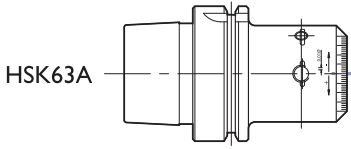
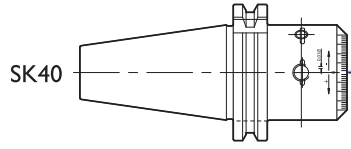
# QUICK CHANGE HIGH SPEED BORING BAR



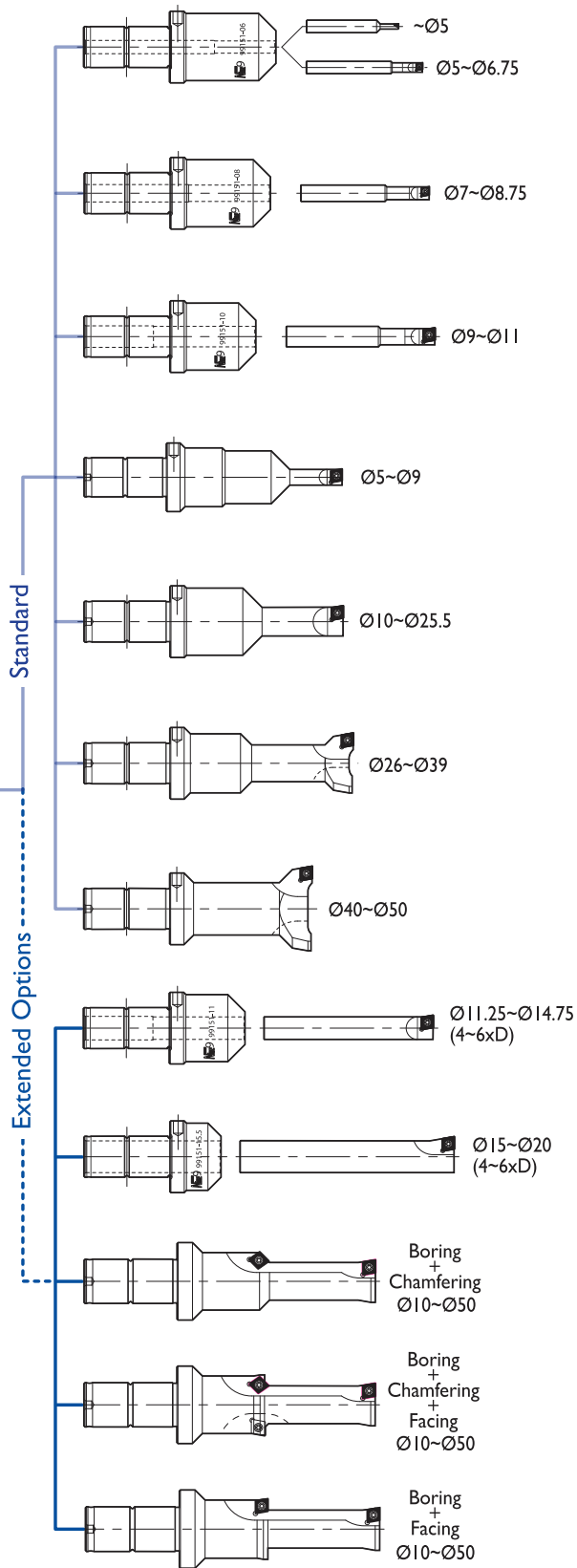
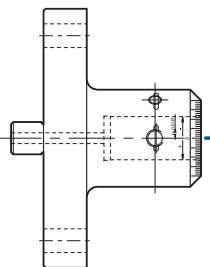
In-Stock ● Two Week Delivery ○

INDEXABLE

## All Interchangeable



Any type of flange and side-lock shank on request



## Procedures For Adjustment

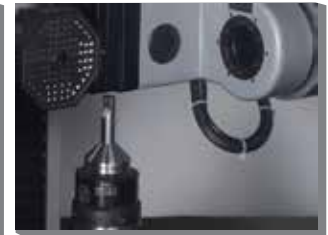
### On Tool Presetter

1. Loosen M8 locking screw. ( Step 1 )
2. Set the boring bar at the neutral position. ( Step 2 )
3. Measure the boring diameter using the tool presetter and compare with the required diameter. ( Step 2 )
4. If boring diameter is too big or too small, please put an allen-key into the adjusting driving hole. Turn to " + " to increase and turn to " - " to reduce boring diameter. ( Step 3 and 4 )
5. Tighten M8 locking screw.

( Step 1 )



( Step 2 )



( Step 3 )



To Increase Diameter

( Step 4 )



To Reduce Diameter

### On Milling Machine And Machining Centers

1. Set the boring bar at the neutral position. ( Step 1 )
2. Tighten M8 locking screw.
3. Test cut on work piece, about 3-5mm depth on the machine.
4. Measuring boring diameter of workpiece and compare with required diameter.
5. If boring diameter is too big or too small, loosen M8 locking screw, please put an allen-key into the adjusting driving hole. Turn to " + " to increase and turn to " - " to reduce boring diameter. ( Step 2 and 3 )
6. Tighten M8 locking screw. ( Step 4 )

( Step 1 )



( Step 2 )



( Step 3 )



To Increase Diameter

( Step 4 )

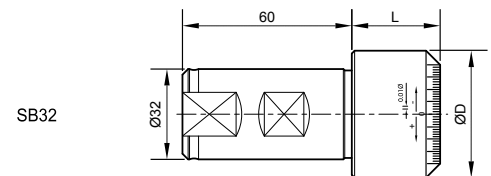
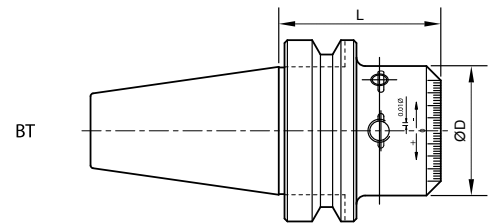
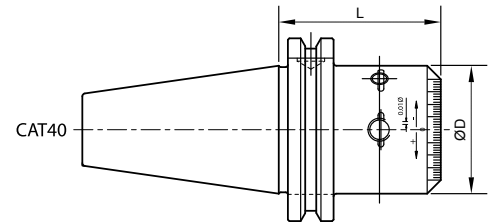
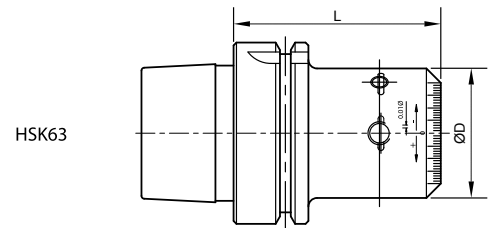
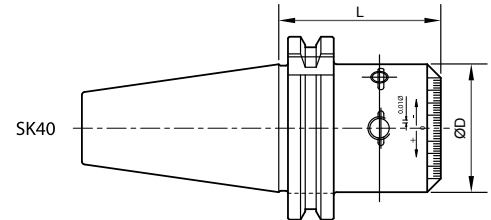


To Reduce Diameter

In-Stock ● Two Week Delivery ○

## Boring Head Shank

- Adjustable range: +0.12 /-0.13 mm.
- Each adjustment division is 0.01 mm.
- Balance grade : G6.3 10000 r.p.m.



INDEXABLE

ORDERING CODE	PART NO.	ØD	L	STOCK
00-99146-01-32HB	SB32-146-01	45	31.3	○
00-99146-BT30H	BT30-146-51	45	51.3	○
00-99146-BT40H	BT40-146-56	45	56.3	●
00-99146-BT50H	BT50-146-77	45	77.3	○
00-99146-CAT40H	CAT40-146-56	45	56.3	●
00-99146-HSK63AH	HSK63A-146-72	45	72	○
00-99146-SK40H	SK40-146-56	45	56.3	○

In-Stock ● Two Week Delivery ○

## Adapter

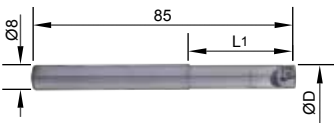
- Economical solution of small dia. boring bar



ITEM NUMBER	PART NO.	ØD	L	STOCK
00-99151A-04	C20-ID04	4	49	○
00-99151A-06	C20-ID06	6	52	○
00-99151A-08	C20-ID08	8	42	○
00-99151A-10	C20-ID10	10	21.5	○
00-99151A-11	C20-ID11	11	21.5	○
00-99151A-15.5	C20-ID15.5	15.5	21.5	○

## Ø6.87~Ø11.12mm

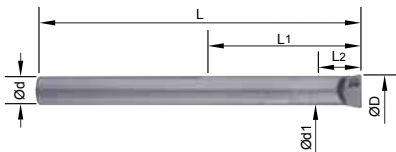
- Solid Carbide Shank Ø8mm, Ø10mm
- Boring Depth : L1, 4~6xD



ITEM NUMBER	PART NO.	ØD	L1	INSERT
00-99151-0700W	C08-0700-28L	6.87~7.12	28.00	○
00-99151-0725W	C08-0725-28L	7.12~7.37	28.00	○
00-99151-0750W	C08-0750-30L	7.37~7.62	30.00	CCGT040102-
00-99151-0775W	C08-0775-30L	7.62~7.87	30.00	NC30
00-99151-0800W	C08-0800-32L	7.87~8.12	32.00	Screw:
00-99151-0825W	C08-0825-32L	8.12~8.37	32.00	NS-20036
00-99151-0850W	C08-0850-34L	8.37~8.62	34.00	Key:NK-T6
00-99151-0875W	C08-0875-34L	8.62~8.87	34.00	○

## Ø11.87~Ø20.12mm

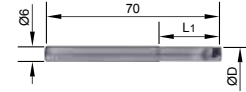
- Solid Carbide Shank
- Boring Depth : L1, 4~6xD



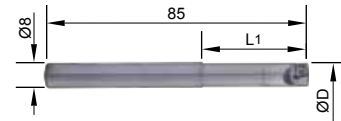
ITEM NUMBER	PART NO.	ØD	ØD1	ØD1	L1	L2	L	FIG.	INSERT	STOCK
00-99151-1200W	C11-1200-150L	11.87~12.12	11	11	70	20	150	1	CCGT060204	○
00-99151-1300W	C11-1300-150L	12.87~13.12	11	-	70	-	150		CCFT060204	○
00-99151-1400W	C11-1400-150L	13.87~14.12	11	-	70	-	150		Screw:	○
00-99151-1500W	C15.5-1500-90L	14.87~15.12	15.5	14	90	90	180	2	NS-25045	○
00-99151-1600W	C15.5-1600-180L	15.87~16.12	15.5	15	90	90	180		Key:NK-T7	○
00-99151-1700W	C15.5-1700-180L	16.87~17.12	15.5	-	100	-	180		CCGT060204	○
00-99151-1800W	C15.5-1800-180L	17.87~18.12	15.5	-	100	-	180	1	CCFT060204	○
00-99151-1900W	C15.5-1900-180L	18.87~19.12	15.5	-	100	-	180		Screw:	○
00-99151-2000W	C15.5-2000-180L	19.87~20.12	15.5	-	100	-	180		NS-25060	○
									Key:NK-T7	○

## Ø4.87~Ø6.87mm

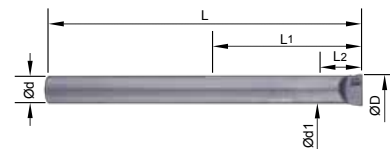
- Solid Carbide Shank Ø6mm
- Boring Depth : L1, 4~6xD



ITEM NUMBER	PART NO.	ØD	L1	INSERT
00-99151-0500W	C06-0500-20L	4.87~5.12	20.00	○
00-99151-0525W	C06-0525-20L	5.12~5.37	20.00	○
00-99151-0550W	C06-0550-22L	5.37~5.62	22.00	CCGT030102-
00-99151-0575W	C06-0575-22L	5.62~5.87	22.00	NC30
00-99151-0600W	C06-0600-24L	5.87~6.12	24.00	Screw:
00-99151-0625W	C06-0625-24L	6.12~6.37	24.00	NS-16030
00-99151-0650W	C06-0650-26L	6.37~6.62	26.00	Key:NK-T6
00-99151-0675W	C06-0675-26L	6.62~6.87	26.00	○



ITEM NUMBER	PART NO.	ØD	L1	INSERT
00-99151-0900W	C10-0900-36L	8.87~9.12	36.00	○
00-99151-0925W	C10-0925-36L	9.12~9.37	36.00	CCGT060204
00-99151-0950W	C10-0950-38L	9.37~9.62	38.00	CCFT060204
00-99151-0975W	C10-0975-38L	9.62~9.87	38.00	All grades are
00-99151-1000W	C10-1000-40L	9.87~10.12	40.00	available.
00-99151-1025W	C10-1025-40L	10.12~10.37	40.00	Screw:
00-99151-1050W	C10-1050-42L	10.37~10.62	42.00	NS-25045
00-99151-1075W	C10-1075-42L	10.62~10.87	42.00	Key:NK-T7
00-99151-1100W	C10-1100-44L	10.87~11.12	44.00	○



INDEXABLE

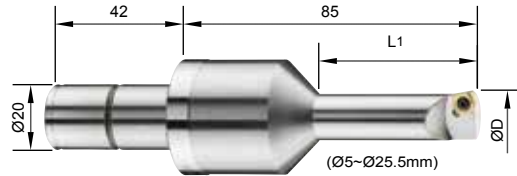
# QUICK CHANGE HIGH SPEED BORING BAR



In-Stock ● Two Week Delivery ○

## Ø5~Ø25mm

- Alloy Steel Shank
- Boring Depth : L1, 2~3xD



\* H type with internal coolant can be ordered on request from Dia. 10mm.

Ordering example: 00-99146-1000SH.

\* Other sizes are available on request.

INDEXABLE

ORDERING CODE	PART NO.	ØD	L1	INSERT	STOCK	ORDERING CODE	PART NO.	ØD	L1	INSERT	STOCK
00-99146-0500S	C20-0500-10L	4.87~5.12	10.00	CC030102-NC30	○	00-99146-1725S	C20-1725-42L	17.12~17.37	42.50		○
00-99146-0600S	C20-0600-12L	5.87~6.12	12.00	NS-16030, NK-T6	○	00-99146-1750S	C20-1750-43L	17.37~17.62	43.75		○
00-99146-0700S	C20-0700-14L	6.87~7.12	14.00	CC040102-NC30	○	00-99146-1775S	C20-1775-43L	17.62~17.87	43.75		○
00-99146-0800S	C20-0800-16L	7.87~8.12	16.00	NS-20036, NK-T6	○	00-99146-1800S	C20-1800-45L	17.87~18.12	45.00		○
00-99146-0900S	C20-0900-20L	8.87~9.12	18.00		○	00-99146-1825S	C20-1825-45L	18.12~18.37	45.00		○
00-99146-1000S	C20-1000-25L	9.87~10.12	25.00		○	00-99146-1850S	C20-1850-46L	18.37~18.62	46.25		○
00-99146-1025S	C20-1025-25L	10.12~10.37	25.00		○	00-99146-1875S	C20-1875-46L	18.62~18.87	46.25		○
00-99146-1050S	C20-1050-26L	10.37~10.62	26.25		○	00-99146-1900S	C20-1900-47L	18.87~19.12	47.50		○
00-99146-1075S	C20-1075-26L	10.62~10.87	26.25		○	00-99146-1925S	C20-1925-47L	19.12~19.37	47.50		○
00-99146-1100S	C20-1100-27L	10.87~11.12	27.50		○	00-99146-1950S	C20-1950-48L	19.37~19.62	48.75		○
00-99146-1125S	C20-1125-27L	11.12~11.37	27.50		○	00-99146-1975S	C20-1975-48L	19.62~19.87	48.75		○
00-99146-1150S	C20-1150-28L	11.37~11.62	28.75		○	00-99146-2000S	C20-2000-50L	19.87~20.12	50.00		○
00-99146-1175S	C20-1175-28L	11.62~11.87	28.75		○	00-99146-2025S	C20-2025-50L	20.12~20.37	50.00		○
00-99146-1200S	C20-1200-30L	11.87~12.12	30.00		○	00-99146-2050S	C20-2050-50L	20.37~20.62	50.00		○
00-99146-1225S	C20-1225-30L	12.12~12.37	30.00		○	00-99146-2075S	C20-2075-50L	20.62~20.87	50.00		○
00-99146-1250S	C20-1250-31L	12.37~12.62	31.25	CCGT060204	○	00-99146-2100S	C20-2100-50L	20.87~21.12	50.00	CCGT060204	○
00-99146-1275S	C20-1275-31L	12.62~12.87	31.25	CCFT060204	○	00-99146-2125S	C20-2125-50L	21.12~21.37	50.00	CCFT060204	○
00-99146-1300S	C20-1300-32L	12.87~13.12	32.50	Screw: NS-25045	○	00-99146-2150S	C20-2150-50L	21.37~21.62	50.00	Screw: NS-25060	○
00-99146-1325S	C20-1325-32L	13.12~13.37	32.50	Key: NK-T7	○	00-99146-2175S	C20-2175-50L	21.62~21.87	50.00	Key: NK-T7	○
00-99146-1350S	C20-1350-33L	13.37~13.62	33.75		○	00-99146-2200S	C20-2200-50L	21.87~22.12	50.00		○
00-99146-1375S	C20-1375-33L	13.62~13.87	33.75		○	00-99146-2225S	C20-2225-50L	22.12~22.37	50.00		○
00-99146-1400S	C20-1400-35L	13.87~14.12	35.00		○	00-99146-2250S	C20-2250-50L	22.37~22.62	50.00		○
00-99146-1425S	C20-1425-35L	14.12~14.37	35.00		○	00-99146-2275S	C20-2275-50L	22.62~22.87	50.00		○
00-99146-1450S	C20-1450-36L	14.37~14.62	36.25		○	00-99146-2300S	C20-2300-50L	22.87~23.12	50.00		○
00-99146-1475S	C20-1475-36L	14.62~14.87	36.25		○	00-99146-2325S	C20-2325-50L	23.12~23.37	50.00		○
00-99146-1500S	C20-1500-37L	14.87~15.12	37.50		○	00-99146-2350S	C20-2350-50L	23.37~23.62	50.00		○
00-99146-1525S	C20-1525-37L	15.12~15.37	37.50		○	00-99146-2375S	C20-2375-50L	23.62~23.87	50.00		○
00-99146-1550S	C20-1550-38L	15.37~15.62	38.75		○	00-99146-2400S	C20-2400-50L	23.87~24.12	50.00		○
00-99146-1575S	C20-1575-38L	15.62~15.87	38.75		○	00-99146-2425S	C20-2425-50L	24.12~24.37	50.00		○
00-99146-1600S	C20-1600-40L	15.87~16.12	40.00		○	00-99146-2450S	C20-2450-50L	24.37~24.62	50.00		○
00-99146-1625S	C20-1625-40L	16.12~16.37	40.00	CCGT060204	○	00-99146-2475S	C20-2475-50L	24.62~24.87	50.00		○
00-99146-1650S	C20-1650-41L	16.37~16.62	41.25	CCFT060204	○	00-99146-2500S	C20-2500-50L	24.87~25.12	50.00		○
00-99146-1675S	C20-1675-41L	16.62~16.87	41.25	Screw: NS-25060	○	00-99146-2525S	C20-2525-50L	25.12~25.37	50.00		○
00-99146-1700S	C20-1700-42L	16.87~17.12	42.50	Key: NK-T7	○	00-99146-2550S	C20-2550-50L	25.37~25.62	50.00		○

# QUICK CHANGE HIGH SPEED BORING BAR

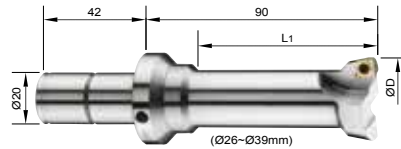


In-Stock ● Two Week Delivery ○

## Ø26~Ø39mm

- Alloy Steel Shank
- Boring Depth : L1, 2~3xD

\* H type with internal coolant can be ordered on request. Ordering example: 00-99146-36AH.

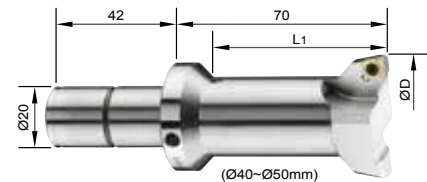


ORDERING CODE	PART NO.	ØD	L1	INSERT	STOCK
00-99146-26A	C20-2600-50L	25.87~26.12	50.00		○
00-99146-27A	C20-2700-50L	26.87~27.12	50.00		○
00-99146-28A	C20-2800-50L	27.87~28.12	50.00		○
00-99146-29A	C20-2900-50L	28.87~29.12	50.00		○
00-99146-30A	C20-3000-50L	29.87~30.12	50.00		○
00-99146-31A	C20-3100-70L	30.87~31.12	70.00		○
00-99146-32A	C20-3200-70L	31.87~32.12	70.00	CCGT060204	○
00-99146-33A	C20-3300-70L	32.87~33.12	70.00	CCFT060204	○
00-99146-34A	C20-3400-70L	33.87~34.12	70.00	Screw: NS-25060	○
00-99146-35A	C20-3500-70L	34.87~35.12	70.00	Key: NK-T7	○
00-99146-36A	C20-3600-70L	35.87~36.12	70.00		○
00-99146-37A	C20-3700-70L	36.87~37.12	70.00		○
00-99146-38A	C20-3800-70L	37.87~38.12	70.00		○
00-99146-39A	C20-3900-70L	38.87~39.12	70.00		○

## Ø40~Ø50mm

- Alloy Steel Shank
- Boring Depth : L1, 2~3xD

\* H type with internal coolant can be ordered on request. Ordering example: 00-99146-45AH.



ORDERING CODE	PART NO.	ØD	L1	INSERT	STOCK
00-99146-40A	C20-4000-70L	39.87-40.12	70.00		○
00-99146-41A	C20-4100-70L	40.87-41.12	70.00		○
00-99146-42A	C20-4200-70L	41.87-42.12	70.00		○
00-99146-43A	C20-4300-70L	42.87-43.12	70.00		○
00-99146-44A	C20-4400-70L	43.87-44.12	70.00	CCGT060204	○
00-99146-45A	C20-4500-70L	44.87-45.12	70.00	CCFT060204	○
00-99146-46A	C20-4600-70L	45.87-46.12	70.00	Screw: NS-25060	○
00-99146-47A	C20-4700-70L	46.87-47.12	70.00	Key: NK-T7	○
00-99146-48A	C20-4800-70L	47.87-48.12	70.00		○
00-99146-49A	C20-4900-70L	48.87-49.12	70.00		○
00-99146-50A	C20-5000-70L	49.87-50.12	70.00		○

## High Speed Boring Bar Kit

ORDERING CODE	CONTENTS	STOCK
00-99146-32HB-05SET	SB32-146-01 Weldon Shank	○
00-99146-BT30-05SET	BT30H Boring head shank	○
00-99146-BT40-05SET	BT40H Boring head shank	●
00-99146-BT50-05SET	BT50H Boring head shank	○
00-99146-CAT40-05SET	CAT40H Boring head shank	●
00-99146-SK40-05SET	SK40H Boring head shank	○
00-99146-HSK63A-05SET	HSK63A Boring head shank	○

Boring head shank: 1pc  
Boring bar: any 5 pcs from Ø5~Ø50  
Key: 3~5 pcs  
Plastic box: 1pc



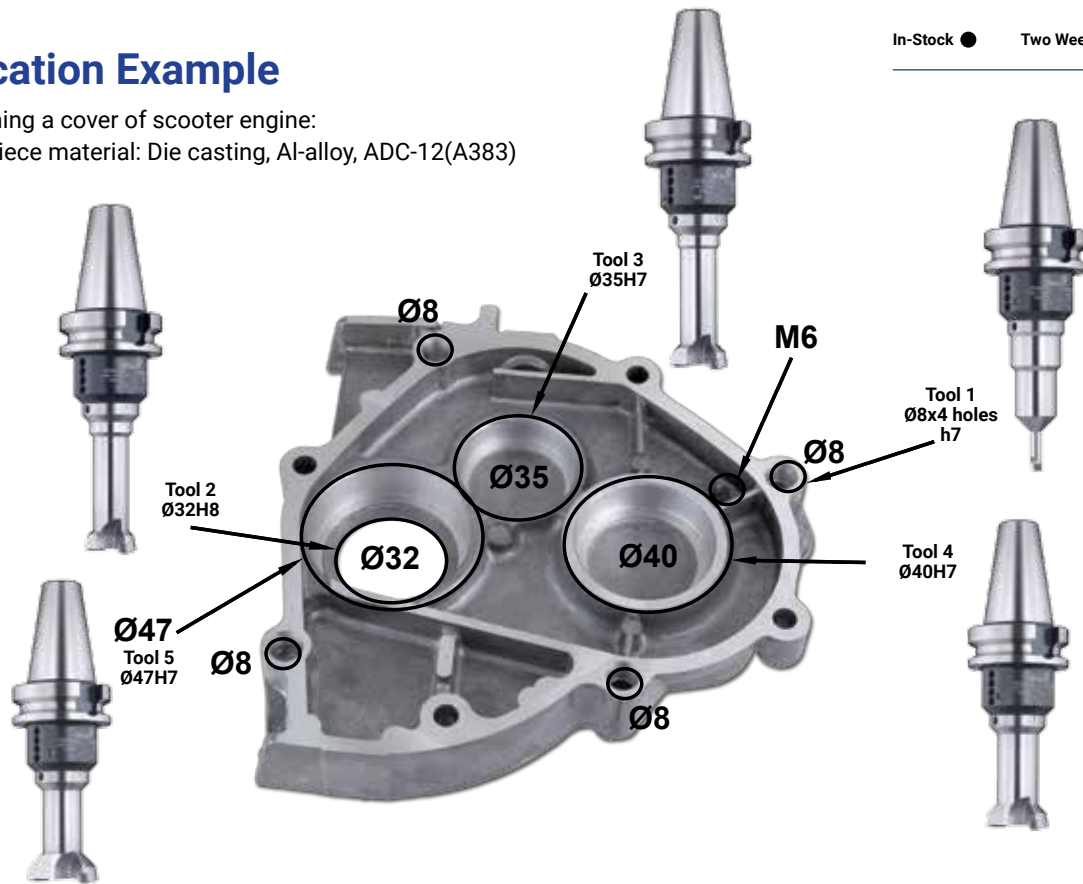
(Insert is not included, please order separately)  
Note: BT50 boring head shank is packed in a separate box.

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In-Stock ● Two Week Delivery ○

## Application Example

- Machining a cover of scooter engine:  
Work piece material: Die casting, Al-alloy, ADC-12(A383)



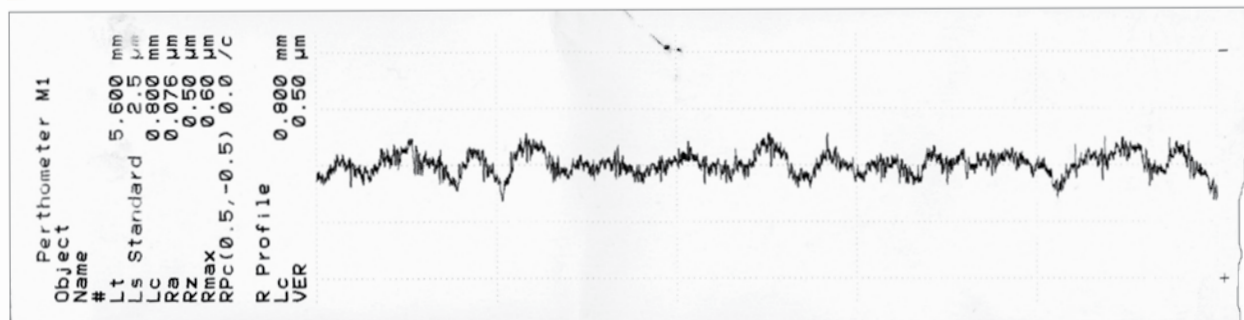
INDEXABLE

### TOOL LIST by Nine9 Boring Bar 99146-series, Spindle Size: BT40

NO.	BORING BAR	GRADE OF INSERT	DIA. (mm)	DEPTH	R.P.M.	F = mm/min.	MACHINING TIME
1	00-99146-08A	CCGT040104 NC30	Ø8H7	8 mm	8000	400	1.2 sec.
2	00-99146-32A	CCGT060202HP NC9031	Ø32H8	8 mm	2985	209	2.3 sec.
3	00-99146-35A	CCGT060202HP NC9031	Ø35H7	12 mm	2730	191	3.8 sec.
4	00-99146-40A	CCGT060202HP NC9031	Ø40H7	15 mm	2400	168	5.4 sec.
5	00-99146-47A	CCGT060202HP NC9031	Ø47H7	15 mm	2030	142	6.4 sec.

## Working Example

MATERIAL	VC M/MIN.	F MM/REV.	ROUGHNESS			TOOL HOLDER	INSERT
			RA	RZ	RMAX		
Al alloy, 6061	150	0.2	0.076µm	0.50µm	0.6µm	99146-BT40-26A	CCGH0602U NC9096



In-Stock ● Two Week Delivery ○

## Precisely Ground Inserts

### -CC030102, CC040102

- **NC30** : K20F carbide insert, TiAlN coated, universal grade for casting iron, carbon steel, alloy steel, stainless steel.

### -CC040102, CC060204

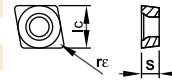
- **NC2032** K20F carbide insert, AlTiN coated, for high speed cutting of casting iron.
- **NC2033** K20F carbide insert, TiAlN coated, good for carbon steel, alloy steel, stainless steel.
- **HP-NC9031** K20F carbide insert, TiN coated, good for Al, Al-alloy, Copper and non ferrous metal.
- **NC9036** K20F carbide insert, DLC coated, long tool life. Good for Al, Al-alloy, Copper and non ferrous metal.
- **U-NC9036** K20F carbide insert, DLC coated, long tool life. It's a super finishing insert with large corner radius for high feed rate for cutting Al, Al-alloy and non-ferrous metal. (patent pending)
- **DM** PCD brazed tipped insert with a polished and honed cutting edge for fine surface finished and longer tool life.



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## Inserts

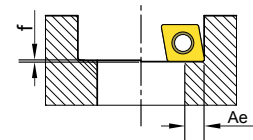
INSERTS	NC30	DM	NC2032	NC2033	NC9031	NC9036	DIMENSIONS		
							IC	S	RE
CCGT030102	●						3.5	1.4	0.2
CCGT040102	●						4.3	1.8	0.2
CCGW040102		●					4.3	1.8	0.2
CCGH0602U						●	6.35	2.38	-
CCFT060204				●		●	6.35	2.38	0.4
CCFW060204			●				6.35	2.38	0.4
CCFT060204HP					●		6.35	2.38	0.4
CCMW060204		●					6.35	2.38	0.4



## Cutting Data

Note: Super fine finishing insert U-NC9036 and DM with special specified cutting width 0.15mm. (Radius)

Spindle speed  $S = \frac{V_c \times 1000}{\pi \times D}$  r.p.m. Feed rate:  $f \times S$  mm/min.



MATERIAL	CUTTING CONDITIONS OR SURFACE FINISHES	GRADE OF INSERT	AE MAX (mm)	CUTTING SPEED VC(mm/min.)	FEED RATE F (mm/rev.)
CARBON STEEL	Regular cutting	NC2033	0.5	120-150-200	0.05-0.07-0.10
	Interrupted cutting	NC30	0.3	100-120-140	0.04-0.05-0.08
ALLOY STEEL	Regular cutting	NC2033	0.5	100-120-140	0.05-0.07-0.10
	Interrupted cutting	NC30	0.3	80-100-120	0.04-0.05-0.08
STAINLESS STEEL	Regular cutting	NC2033	0.5	80-100-120	0.05-0.07-0.10
	Interrupted cutting	NC30	0.3	70-80-100	0.05-0.07-0.10
CAST IRON	Regular cutting	NC2032 NC30	0.5	80-100-120	0.05-0.07-0.10
BRASS, BRONZE AND AL-ALLOY SI >6%	Regular cutting	NC9036 NC9031	0.5	150-200-300	0.05-0.07-0.10
	Super mirror finish	U-NC9036	0.15	150-200-300	0.15-0.2-0.25
Al, Al-ALLOY, NON-FERROUS METAL	Regular cutting	NC9036 NC9031	0.5	150-200-300	0.05-0.07-0.10
	Super finished	DM	0.3	500-1000-2000	0.05-0.07-0.10
Super mirror finish	U-NC9036	0.15	150-200-300	0.15-0.20-0.25	
HARDENED STEEL <HRC 50	Regular cutting	NC30	0.3	80-100-120	0.04-0.06-0.08



# INSERTS

F = Finishing S = Semi Finishing M = Medium R = Roughing  
P = Alloy Steel M = Stainless Steel K = Cast Iron H = Hard Steel

In-Stock ● Two Week Delivery ○

## Milling Inserts

DESIGNATION	DIMENSIONS (MM)					GRADE	APPLICATION				MATERIALS				STOCK
	A	B	S	r	d1		F	S	M	R	P	M	K	H	
<b>APKT</b>															
APKT 1003PDER-MG	10.5	6.7	3.50	0.4	2.8	CX30NS	★	★★	★★★	★★	■	□	□	□	●
APMT 1604PDER-MG	16.50	9.525	4.76	0.8	4.4	CX30NS	★	★★	★★★	★	■	□	□	□	●
APMT 1604PDER-MG	16.50	9.525	4.76	0.8	4.4	CX40NS	★	★★	★★	★★	■	□	□	□	●
APMT 1604PDER-RG	16.50	9.525	4.76	0.8	4.4	CX30NS	★	★★	★★★	★	■	□	□	□	●
APMT 1604PDER-RG	16.50	9.525	4.76	0.8	4.4	CX40NS	★	★★	★★	★★	■	□	□	□	●
<b>JDMW</b>															
JDMW 120420ZDSR-RG	2.5	12	4.76	2.0	-	CX30NS			★★★	★★	■	□	□	□	●
JDMW 120420ZDSR-RG	2.5	12	4.76	2.0	-	CX40NS			★★	★★★	■	□	□	□	●

■ = First recommended □ = Second recommended



DESIGNATION	DIMENSIONS (mm)			GRADE	APPLICATION				MATERIALS				STOCK	
	lc	S	d1		F	S	M	R	P	M	K	H		
RDKW 0501MOE	5.00	1.59	2.20	CX30NS		★	★★★	★	■	□	□	□	□	●
RDKW 0702MOE	7.00	2.38	2.80	CX30NS		★	★★★	★	■	□	□	□	□	●
RDMX 1003MOE	10.00	3.18	4.15	CX30NS		★	★★★	★	■	□	□	□	□	●
RDMT 10T3MOE	10.00	3.97	4.50	CX30NS		★	★★★	★	■	□	□	□	□	●
RDMT 10T3MOE	10.00	3.97	4.50	CX40NS		★	★★	★★★	■	□	□	□	□	●
RDMT 10T3MOT	10.00	3.97	4.50	CX30NS		★	★★★	★★	■	□	□	□	□	●
RDMT 10T3MOT	10.00	3.97	4.50	CX40NS		★	★★	★★★	■	□	□	□	□	●
RDMW 10T3MOE	10.00	3.97	4.50	CX30NS		★	★★★	★	■	□	□	□	□	●
RDMX 12T3MOT	12.00	3.97	4.10	CX30NS		★	★★★	★	■	□	□	□	□	●
RDMT 1604MOT	16.00	4.76	5.50	CX30NS		★	★★★	★★	■	□	□	□	□	●
RDMT 1604MOT	16.00	4.76	5.50	CX40NS		★	★★	★★★	■	□	□	□	□	●
RDMW 1604MOT	16.00	4.76	5.50	CX30NS		★	★★★	★★	■	□	□	□	□	●
RDMW 1604MOT	16.00	4.76	5.50	CX40NS		★	★★	★★★	■	□	□	□	□	●

■ = First recommended □ = Second recommended



DESIGNATION	DIMENSIONS (mm)						GRADE	APPLICATION				MATERIALS				STOCK
	d	s	d1	l	r	t1		F	S	M	R	P	M	K	H	
<b>RT</b>																
RT 070204-RG	4.30	2.38	2.2	6.4	0.4	1.3	CX30NS		★★	★★★	★★	■	□	□	□	●
RT 100308-RG	6.35	3.40	2.9	9.3	0.8	1.8	CX30NS		★★	★★★	★★	■	□	□	□	●
<b>SEKT</b>																
SEKT 1204-RG	12.0	4.75	-	12.0	0.8	-	CX30NS		★★	★★★	★★	■	□	□	□	●

■ = First recommended □ = Second recommended



DESIGNATION	DIMENSIONS (mm)					GRADE	APPLICATION				MATERIALS				STOCK
	D	S	F	r	d1		F	S	M	R	P	M	K	H	
<b>SEMR</b>															
SEMR 1203AFSN-RG	12.7	3.18	1.6	1.0	2.0	CX30NS		★	★★★	★★	■	□	□	□	●
<b>SEMT</b>															
SEMT 13T3AGSN-MG	13.4	3.97	1.9	1.5	4.2	CX30NS		★★	★★★	★	■	□	□	□	●
SEMT 13T3AGSN-MG	13.4	3.97	1.9	1.5	4.2	CX40NS		★	★★★	★★	■	□	□	□	●
SEMT 13T3AGSN-RG	13.4	3.97	1.9	1.5	4.2	CX30NS		★	★★★	★★	■	□	□	□	●
SEMT 13T3AGSN-RG	13.4	3.97	1.9	1.5	4.2	CX40NS			★★	★★★	■	□	□	□	●

■ = First recommended □ = Second recommended



INDEXABLE

# INSERTS

F = Finishing S = Semi Finishing M = Medium R = Roughing  
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In-Stock ● Two Week Delivery ○

DESIGNATION	DIMENSIONS (MM)						GRADE	APPLICATION				MATERIALS				STOCK
	d	s	d1	l	r	t1		F	S	M	R	P	M	K	H	
W390 11T308-MG	12.0	3.63	-	10.39	0.8	-	CX30NS	★★	★★★	★★		■	□	□	□	●



W390

■ = First recommended □ = Second recommended

## Drilling Inserts

DESIGNATION	DIMENSIONS (mm)			GRADE	APPLICATION					MATERIALS				STOCK
	lc	S	d1		F	S	M	R	I	P	M	K	H	
WCMT/X 030208-MG	5.56	2.38	0.8	CX40NS				★★★		■	□	□	□	●
WCMT/X 040208-MG	6.35	2.38	0.8	CX40NS				★★★		■	□	□	□	●
WCMT/X 050308-MG	7.94	3.18	0.8	CX40NS				★★★		■	□	□	□	●
WCMT/X 06T308-MG	9.53	3.97	0.8	CX40NS				★★★		■	□	□	□	●
WCMT/X 080412-MG	12.7	4.76	1.2	CX40NS				★★★		■	□	□	□	●



WCMT

■ = First recommended □ = Second recommended

## Parting Off Inserts

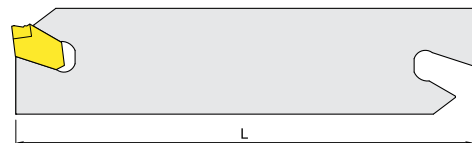
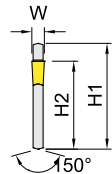
DESIGNATION	DIMENSIONS (mm)		GRADE	APPLICATION				MATERIALS				STOCK
	W	R		F	S	M	R	P	M	K	H	
TGTN 0220	2.2	0.16	CX40NS	★	★★	★★	★★	■	□	□	□	●
TGTN 0310	3.1	0.20	CX40NS	★	★★	★★	★★	■	□	□	□	●



TGTN

■ = First recommended □ = Second recommended

## Blade



ITEM CODE	DIMENSIONS (mm)				INSERT	TOOLBLOCK	WRENCH	STOCK
	H1	H2	L	W				
SGIH-26-2	26	21.4	110	2.2/2.4	GT_2/2.4	SGTBU..-26	ESG-1	●
SGIH-26-3	26	21.4	110	3.1	GT_3	SGTBU..-26	ESG-1	●
SGIH-32-2	32	25	150	2.2/2.4	GT_2/2.4	SGTBU..-32	ESG-1	●
SGIH-32-3	32	25	150	3.1	GT_3	SGTBU..-32	ESG-1	●

INDEXABLE

# INSERTS

P = Alloy Steel M = Stainless Steel K = Cast Iron S = Hard Steel  
 N = Non-Ferrous H = Hard Materials

In-Stock ● Two Week Delivery ○

## Turning - Positive Inserts

INSERT NUMBER	CHIPBREAKER	GRADE	IC	THICKNESS	RADIUS	MATERIAL						STOCK
						P	M	K	S	N	H	
<b>CCMT</b>												
CCMT-060204	MP	CX25NS	1/4"	3/32"	0.016"	■	□	□	□	□	□	●
CCMT-09T304	MP	CX25NS	3/8"	5/32"	0.016"	■	□	□	□	□	□	●
<b>CCMT</b>												
CCMT-060202	MG	CX25NS	1/4"	3/32"	0.008"	■	□	□	□	□	□	●
CCMT-060204	MG	CX25NS	1/4"	3/32"	0.016"	■	□	□	□	□	□	●
CCMT-09T304	MG	CX25NS	3/8"	5/32"	0.016"	■	□	□	□	□	□	●
CCMT-09T308	MG	CX25NS	3/8"	5/32"	0.031"	■	□	□	□	□	□	●
CCMT-120408	MG	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●
<b>DCMT</b>												
DCMT-070202	MG	CX25NS	1/4"	3/32"	0.008"	■	□	□	□	□	□	●
DCMT-070204	MG	CX25NS	1/4"	3/32"	0.016"	■	□	□	□	□	□	●
DCMT-11T304	MG	CX25NS	3/8"	5/32"	0.016"	■	□	□	□	□	□	●
DCMT-11T308	MG	CX25NS	3/8"	5/32"	0.031"	■	□	□	□	□	□	●
<b>TCMT</b>												
TCMT-110204	MG	CX25NS	1/4"	3/32"	0.016"	■	□	□	□	□	□	●
TCMT-16T304	MG	CX25NS	3/8"	5/32"	0.016"	■	□	□	□	□	□	●
TCMT-16T308	MG	CX25NS	3/8"	5/32"	0.031"	■	□	□	□	□	□	●
<b>TPMH</b>												
TPMH-160304	MV	CX25NS	3/8"	1/8"	0.016"	■	□	□	□	□	□	●
<b>VBMT</b>												
VBMT-160404	MG	CX25NS	3/8"	3/16"	0.016"	■	□	□	□	□	□	●
VBMT-160408	MG	CX25NS	3/8"	3/16"	0.031"	■	□	□	□	□	□	●

■ = First recommended □ = Second recommended Grade: CX2525 Also Available



CCMT



DCMT



TCMT



TPMH



VBMT

INDEXABLE

## Turning - Negative Inserts

INSERT NUMBER	CHIPBREAKER	GRADE	IC	THICKNESS	RADIUS	MATERIAL						STOCK
						P	M	K	S	N	H	
<b>CNMG</b>												
CNMG-120404	MP	CX25NS	1/2"	3/16"	0.016"	■	□	□	□	□	□	●
CNMG-120408	MP	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●
CNMG-120412	MP	CX25NS	1/2"	3/16"	0.047"	■	□	□	□	□	□	●
<b>DNMG</b>												
DNMG-150404	SP	CX25NS	1/2"	3/16"	0.16"	■	□	□	□	□	□	●
DNMG-150408	MG	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●
<b>SNMG</b>												
SNMG-120408	MG	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●
<b>TNMG</b>												
TNMG-220408	MP	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●
<b>VNMG</b>												
VNMG-160404	MP	CX25NS	3/8"	3/16"	0.016"	■	□	□	□	□	□	●
VNMG-160408	MG	CX25NS	3/8"	3/16"	0.031"	■	□	□	□	□	□	●
<b>WNMG</b>												
WNMG-080404	MP	CX25NS	1/2"	3/16"	0.016"	■	□	□	□	□	□	●
WNMG-080408	MP	CX25NS	1/2"	3/16"	0.031"	■	□	□	□	□	□	●

■ = First recommended □ = Second recommended Grade: CX2525 Also Available



CNMG



DNMG



SNMG



TNMG



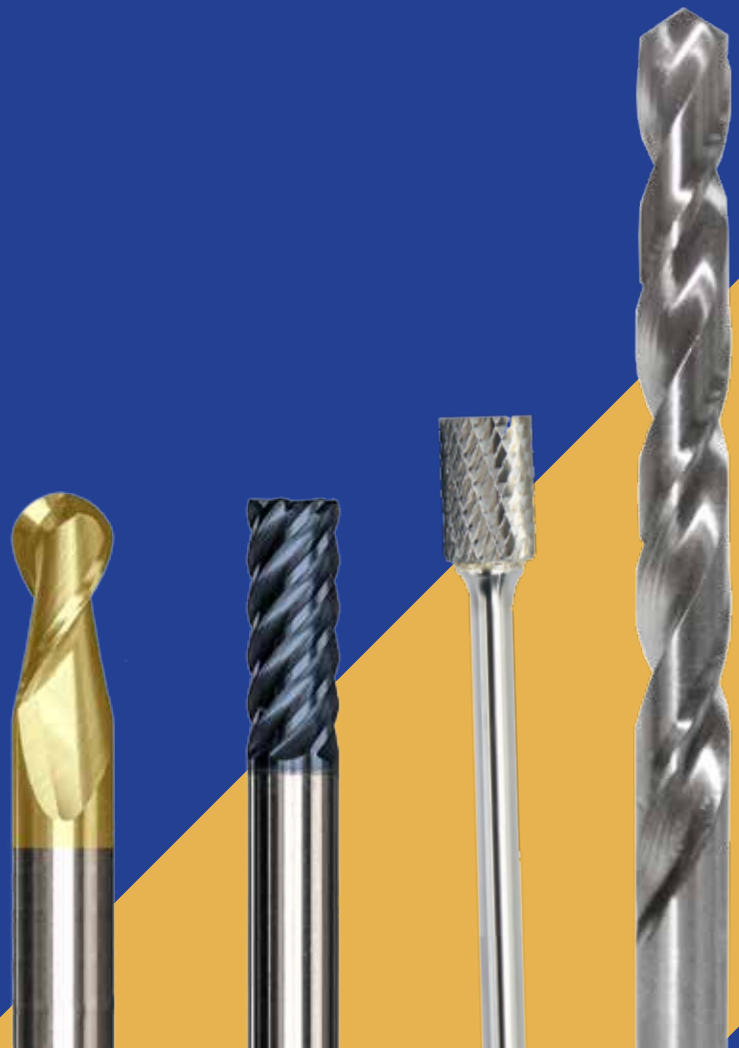
VNMG



WNMG

# SOLID CARBIDE

**MasterCut**



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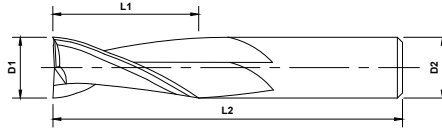
For a full product selection please  
request a full catalogue.

In-Stock ● Two Week Delivery ○

## Square Endmills



Standard Uncoated



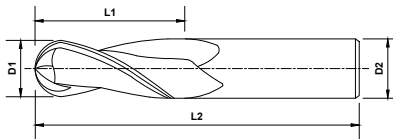
OD	LOC	SHK	OAL	UNCOATED			PowerA		
D1	L1	D2	L2	2 FLUTE	3 FLUTE	4 FLUTE	2 FLUTE	3 FLUTE	4 FLUTE
1/32"	3/32"	1/8"	1 1/2"	209-202 ●	-	211-202 ●	209-202-1 ●	-	211-202-1 ●
1/16"	1/4"	1/8"	1 1/2"	209-206 ●	-	211-206 ●	209-206-1 ●	-	211-206-1 ●
3/32"	3/8"	1/8"	1 1/2"	209-210 ●	-	211-210 ●	209-210-1 ●	-	211-210-1 ●
5/32"	5/16"	3/16"	2"	209-218 ●	-	211-218 ●	209-218-1 ●	-	211-218-1 ●
1/8"	1/2"	1/8"	1 1/2"	209-214 ●	-	211-214 ●	209-214-1 ●	-	211-214-1 ●
3/16"	5/8"	3/16"	2"	209-222 ●	-	211-222 ●	209-222-1 ●	-	211-222-1 ●
7/32"	5/8"	1/4"	2 1/2"	209-226 ●	-	211-226 ●	209-226-1 ●	-	211-226-1 ●
1/4"	3/4"	1/4"	2 1/2"	209-230 ●	210-230 ○	211-230 ●	209-230-1 ●	210-230-1 ○	211-230-1 ●
9/32"	7/8"	5/16"	2 1/2"	209-234 ●	-	211-234 ●	209-234-1 ●	-	211-234-1 ●
5/16"	7/8"	5/16"	2 1/2"	209-238 ●	-	211-238 ●	209-238-1 ●	-	211-238-1 ●
3/8"	7/8"	3/8"	2 1/2"	209-246 ●	210-246 ○	211-246 ●	209-246-1 ●	210-246-1 ○	211-246-1 ●
7/16"	1"	7/16"	2 1/2"	209-254 ●	-	211-254 ●	209-254-1 ●	-	211-254-1 ●
1/2"	1"	1/2"	3"	209-262 ●	210-262 ○	211-262 ●	209-262-1 ●	210-262-1 ○	211-262-1 ●
9/16"	1 1/4"	9/16"	3 1/2"	209-264 ●	-	211-264 ●	209-264-1 ●	-	211-264-1 ●
5/8"	1 1/4"	5/8"	3 1/2"	209-266 ●	-	211-266 ●	209-266-1 ●	-	211-266-1 ●
3/4"	1 1/2"	3/4"	4"	209-270 ●	-	211-270 ●	209-270-1 ●	-	211-270-1 ●
7/8"	1 1/2"	7/8"	4"	209-272 ○	-	211-272 ○	209-272-1 ○	-	211-272-1 ○
1"	1 1/2"	1"	4"	209-274 ●	-	211-274 ●	209-274-1 ●	-	211-274-1 ●

SOLID CARBIDE

## Ball Endmills



Standard Uncoated



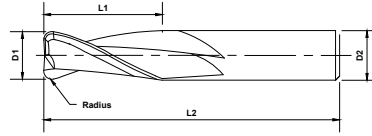
OD	LOC	SHK	OAL	UNCOATED			PowerA		
D1	L1	D2	L2	2 FLUTE	3 FLUTE	4 FLUTE	2 FLUTE	3 FLUTE	4 FLUTE
1/32"	3/32"	1/8"	1 1/2"	209-002 ●	-	211-002 ○	209-002-1 ●	-	211-002-1 ○
1/16"	1/4"	1/8"	1 1/2"	209-006 ●	-	211-006 ○	209-006-1 ●	-	211-006-1 ●
3/32"	3/8"	1/8"	1 1/2"	209-010 ●	-	211-010 ○	209-010-1 ●	-	211-010-1 ●
1/8"	1/2"	1/8"	1 1/2"	209-014 ●	-	211-014 ●	209-014-1 ●	-	211-014-1 ●
3/16"	5/8"	3/16"	2"	209-022 ●	-	211-022 ●	209-022-1 ●	-	211-022-1 ●
1/4"	3/4"	1/4"	2 1/2"	209-030 ●	210-030 ●	211-030 ●	209-030-1 ●	210-030-1 ●	211-030-1 ●
5/16"	7/8"	5/16"	2 1/2"	209-038 ●	-	211-038 ●	209-038-1 ●	-	211-038-1 ●
3/8"	7/8"	3/8"	2 1/2"	209-046 ●	210-046 ●	211-046 ●	209-046-1 ●	210-046-1 ●	211-046-1 ●
1/2"	1"	1/2"	3"	209-062 ●	210-062 ●	211-062 ●	209-062-1 ●	210-062-1 ●	211-062-1 ●
5/8"	1 1/4"	5/8"	3 1/2"	209-066 ●	-	211-066 ●	209-066-1 ●	-	211-066-1 ●
3/4"	1 1/2"	3/4"	4"	209-070 ○	-	211-070 ○	209-070-1 ○	-	211-070-1 ○
7/8"	1 1/2"	7/8"	4"	209-072 ○	-	211-072 ○	209-072-1 ○	-	211-072-1 ○
1"	1 1/2"	1"	4"	209-074 ○	-	211-074 ○	209-074-1 ○	-	211-074-1 ○

In-Stock ● Two Week Delivery ○

## Corner Radius Endmills



Standard Uncoated



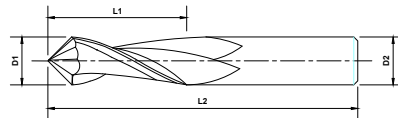
OD	LOC	SHK	OAL	RADIUS	UNCOATED				PowerA			
D1	L1	D2	L2	R	2 FLUTE		4 FLUTE		2 FLUTE		4 FLUTE	
1/8"	1/2"	1/8"	1 1/2"	0.015"	209-401	○	211-401	○	209-401-1	○	211-401-1	●
1/8"	1/2"	1/8"	1 1/2"	0.020"	209-402	○	211-402	○	209-402-1	○	211-402-1	●
3/16"	5/8"	3/16"	2"	0.015"	209-411	○	211-411	○	209-411-1	○	211-411-1	●
3/16"	5/8"	3/16"	2"	0.020"	209-412	○	211-412	○	209-412-1	○	211-412-1	●
1/4"	3/4"	1/4"	2 1/2"	0.015"	209-421	○	211-421	○	209-421-1	○	211-421-1	●
1/4"	3/4"	1/4"	2 1/2"	0.020"	209-422	○	211-422	○	209-422-1	○	211-422-1	●
1/4"	3/4"	1/4"	2 1/2"	0.030"	209-423	○	211-423	○	209-423-1	○	211-423-1	●
5/16"	13/16"	5/16"	2 1/2"	0.020"	209-432	○	211-432	○	209-432-1	○	211-432-1	●
5/16"	13/16"	5/16"	2 1/2"	0.030"	209-433	○	211-433	○	209-433-1	○	211-433-1	●
1/4"	1"	1/4"	4"	0.015"	209-441	○	211-441	○	211-441-1	○	211-441-1	●
3/8"	1"	3/8"	2 1/2"	0.020"	209-442	○	211-442	○	209-442-1	○	211-442-1	●
3/8"	1"	3/8"	2 1/2"	0.030"	209-443	○	211-443	○	209-443-1	○	211-443-1	●
1/4"	1"	1/4"	4"	0.045"	209-444	○	211-444	○	211-444-1	○	211-444-1	●
1/4"	1"	1/4"	4"	0.060"	209-445	○	211-445	○	211-445-1	○	211-445-1	●
1/4"	1 1/2"	1/4"	4"	0.015"	209-451	○	211-451	○	211-451-1	○	211-451-1	●
1/2"	1"	1/2"	3"	0.020"	209-452	○	211-452	○	209-452-1	○	211-452-1	●
1/2"	1"	1/2"	3"	0.030"	209-453	○	211-453	○	209-453-1	○	211-453-1	●
1/4"	1 1/2"	1/4"	4"	0.045"	209-454	○	211-454	○	211-454-1	○	211-454-1	●
1/4"	1 1/2"	1/4"	4"	0.060"	209-455	○	211-455	○	211-455-1	○	211-455-1	●
5/8"	1 1/4"	5/8"	3 1/2"	0.030"	209-463	○	211-463	○	209-463-1	○	211-463-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.045"	209-464	○	211-464	○	209-464-1	○	211-464-1	○
3/4"	1 1/2"	3/4"	4"	0.030"	209-473	○	211-473	○	209-473-1	○	211-473-1	●
3/4"	1 1/2"	3/4"	4"	0.045"	209-474	○	211-474	○	209-474-1	○	211-474-1	○
1"	1 1/2"	1"	4"	0.030"	209-483	○	211-483	○	209-483-1	○	211-483-1	○
1"	1 1/2"	1"	4"	0.045"	209-484	○	211-484	○	209-484-1	○	211-484-1	○

\*Other radius sizes stocked, please inquire.

## 90° Drill Mills



Standard Uncoated

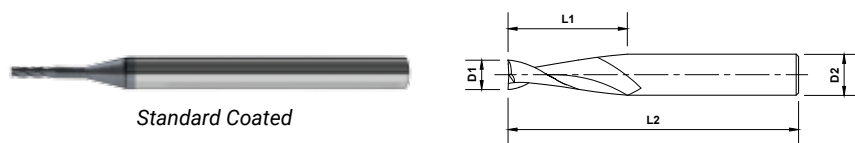


OD	LOC	SHK	OAL	UNCOATED				PowerA			
D1	L1	D2	L2	2 FLUTE		4 FLUTE		2 FLUTE		4 FLUTE	
1/8"	1/2"	1/8"	1 1/2"	214-002	○	214-302	○	214-002-1	●	214-302-1	●
3/16"	5/8"	3/16"	2"	214-004	○	214-304	○	214-004-1	●	214-304-1	●
1/4"	3/4"	1/4"	2 1/2"	214-006	○	214-306	○	214-006-1	●	214-306-1	●
3/8"	7/8"	3/8"	2 1/2"	214-010	○	214-310	○	214-010-1	●	214-310-1	●
1/2"	1"	1/2"	3"	214-014	○	214-314	○	214-014-1	●	214-314-1	●
5/8"	1 1/4"	5/8"	3 1/2"	214-016	○	214-316	○	214-016-1	●	214-316-1	○
3/4"	1 1/2"	3/4"	4"	214-018	○	214-318	○	214-018-1	●	214-318-1	○

SOLID CARBIDE

In-Stock ● Two Week Delivery ○

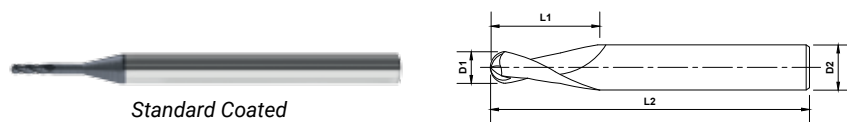
## Square Mini Mills



Standard Coated

OD	LOC	SHK	OAL	UNCOATED			PowerA	
D1	L1	D2	L2	2 FLUTE	4 FLUTE		2 FLUTE	4 FLUTE
0.010"	0.030"	1/8"	1 1/2"	207-104 ●	-		207-104-1 ○	-
0.015"	0.045"	1/8"	1 1/2"	207-106 ●	-		207-106-1 ○	-
0.020"	0.060"	1/8"	1 1/2"	207-108 ●	-		207-108-1 ○	-
0.025"	0.075"	1/8"	1 1/2"	207-110 ●	207-510 ●		207-110-1 ○	207-510-1 ○
0.030"	0.090"	1/8"	1 1/2"	207-112 ●	207-512 ●		207-112-1 ○	207-512-1 ○
0.035"	0.105"	1/8"	1 1/2"	207-114 ●	207-514 ●		207-114-1 ○	207-514-1 ○
0.040"	0.120"	1/8"	1 1/2"	207-116 ●	207-516 ●		207-116-1 ○	207-516-1 ○
0.045"	0.135"	1/8"	1 1/2"	207-118 ●	207-518 ●		207-118-1 ○	207-518-1 ○
0.050"	0.150"	1/8"	1 1/2"	207-120 ●	207-520 ●		207-120-1 ○	207-520-1 ○
0.055"	0.165"	1/8"	1 1/2"	207-122 ●	207-522 ●		207-122-1 ○	207-522-1 ○
0.060"	0.180"	1/8"	1 1/2"	207-124 ●	207-524 ●		207-124-1 ○	207-524-1 ○

## Ball Mini Mills



Standard Coated

OD	LOC	SHK	OAL	UNCOATED			PowerA	
D1	L1	D2	L2	2 FLUTE	4 FLUTE		2 FLUTE	4 FLUTE
0.010"	0.030"	1/8"	1 1/2"	207-004 ●	-		207-004-1 ○	-
0.015"	0.045"	1/8"	1 1/2"	207-006 ●	-		207-006-1 ○	-
0.020"	0.060"	1/8"	1 1/2"	207-008 ●	-		207-008-1 ○	-
0.025"	0.075"	1/8"	1 1/2"	207-010 ●	207-410 ●		207-010-1 ○	207-410-1 ○
0.030"	0.090"	1/8"	1 1/2"	207-012 ●	207-412 ●		207-012-1 ○	207-412-1 ○
0.035"	0.105"	1/8"	1 1/2"	207-014 ●	207-414 ●		207-014-1 ○	207-414-1 ○
0.040"	0.120"	1/8"	1 1/2"	207-016 ●	207-416 ●		207-016-1 ○	207-416-1 ○
0.045"	0.135"	1/8"	1 1/2"	207-018 ●	207-418 ●		207-018-1 ○	207-418-1 ○
0.050"	0.150"	1/8"	1 1/2"	207-020 ●	207-420 ●		207-020-1 ○	207-420-1 ○
0.055"	0.165"	1/8"	1 1/2"	207-022 ●	207-422 ●		207-022-1 ○	207-422-1 ○
0.060"	0.180"	1/8"	1 1/2"	207-024 ●	207-424 ●		207-024-1 ○	207-424-1 ○

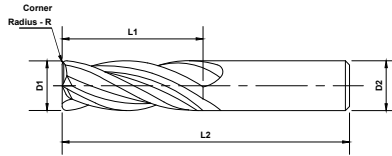
SOLID CARBIDE

In-Stock ● Two Week Delivery ○

## V4 Square Endmills



PowerA

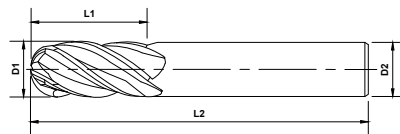


OD	LOC	SHK	OAL	PowerA			
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
1/8"	1/4"	1/8"	1 1/2"	402-004-1	●	402-004W-1	○
1/8"	3/8"	1/8"	1 1/2"	400-002-1	●	400-002W-1	○
3/16"	3/8"	3/16"	2"	402-006-1	●	402-006W-1	○
3/16"	7/16"	3/16"	2"	400-006-1	●	400-006W-1	○
1/4"	1/2"	1/4"	2"	402-010-1	●	402-010W-1	●
1/4"	5/8"	1/4"	2 1/2"	400-010-1	●	400-010W-1	●
1/4"	1 1/8"	1/4"	3"	401-002-1	●	401-002W-1	●
5/16"	1/2"	5/16"	2"	402-012-1	○	402-012W-1	●
5/16"	13/16"	5/16"	2 1/2"	400-012-1	●	400-012W-1	●
5/16"	1 1/8"	5/16"	3"	401-004-1	○	401-004W-1	●
3/8"	5/8"	3/8"	2"	402-014-1	○	402-014W-1	●
3/8"	7/8"	3/8"	2 1/2"	400-016-1	●	400-016W-1	●
3/8"	1 1/8"	3/8"	3"	401-006-1	○	401-006W-1	●
7/16"	5/8"	7/16"	2 1/2"	402-016-1	○	402-016W-1	●
7/16"	1"	7/16"	2 3/4"	400-020-1	○	400-020W-1	●
1/2"	5/8"	1/2"	2 1/2"	402-018-1	○	402-018W-1	●
1/2"	1"	1/2"	3"	400-022-1	●	400-022W-1	●
1/2"	1 1/4"	1/2"	3"	400-024-1	○	400-024W-1	●
9/16"	1 1/8"	9/16"	3 1/2"	400-026-1	○	400-026W-1	●
5/8"	3/4"	5/8"	3"	402-020-1	○	402-020W-1	●
5/8"	1 1/4"	5/8"	3 1/2"	400-028-1	○	400-028W-1	●
5/8"	2 1/4"	5/8"	5"	401-010-1	○	401-010W-1	●
3/4"	1"	3/4"	3"	402-024-1	○	402-024W-1	●
3/4"	1 1/2"	3/4"	4"	400-030-1	○	400-030W-1	●
3/4"	2 1/4"	3/4"	5"	401-012-1	○	401-012W-1	○
1"	1 1/2"	1"	4"	400-034-1	○	400-034W-1	●
1"	2 1/4"	1"	5"	401-018-1	○	401-018W-1	○
3/4"	1 5/8"	3/4"	4"	400-032-1	○	400-032W-1	○

## V4 Ball Endmills



PowerA



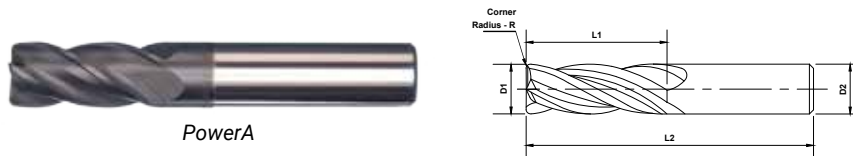
OD	LOC	SHK	OAL	PowerA			
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
1/4"	5/8"	1/4"	2 1/2"	400-210-1	●	400-210W-1	●
5/16"	13/16"	5/16"	2 1/2"	400-212-1	○	400-212W-1	●
3/8"	7/8"	3/8"	2 1/2"	400-216-1	●	400-216W-1	●
1/2"	1"	1/2"	3"	400-222-1	○	400-222W-1	●
5/8"	1 1/4"	5/8"	3 1/2"	400-228-1	○	400-228W-1	○

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## V4 Corner Radius Endmills



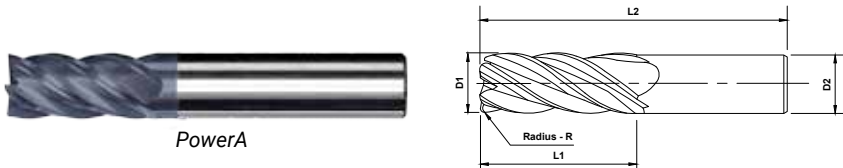
PowerA

OD LOC SHK OAL RADIUS					PowerA			
D1	L1	D2	L2	R	NO FLAT	STOCK	WITH FLAT	STOCK
1/8"	1/4"	1/8"	1 1/2"	0.015"	402-401-1	●	402-401W-1	○
1/8"	3/8"	1/8"	1 1/2"	0.015"	400-401-1	●	400-401W-1	○
3/16"	3/8"	3/16"	2"	0.015"	402-421-1	●	402-421W-1	○
3/16"	7/16"	3/16"	2"	0.015"	400-411-1	●	400-411W-1	○
3/16"	7/16"	3/16"	2"	0.020"	400-412-1	●	400-412W-1	○
1/4"	1/2"	1/4"	2"	0.015"	402-441-1	●	402-441W-1	○
1/4"	5/8"	1/4"	2 1/2"	0.015"	400-421-1	○	400-421W-1	○
1/4"	5/8"	1/4"	2 1/2"	0.020"	400-422-1	○	400-422W-1	●
1/4"	1 1/8"	1/4"	3"	0.020"	401-402-1	○	401-402W-1	○
5/16"	1/2"	5/16"	2"	0.020"	402-452-1	○	402-452W-1	●
5/16"	13/16"	5/16"	2 1/2"	0.015"	400-431-1	○	400-431W-1	○
5/16"	13/16"	5/16"	2 1/2"	0.020"	400-432-1	○	400-432W-1	●
5/16"	1 1/8"	5/16"	3"	0.020"	401-412-1	○	401-412W-1	○
3/8"	5/8"	3/8"	2"	0.020"	402-462-1	○	402-462W-1	●
3/8"	7/8"	3/8"	2 1/2"	0.020"	400-442-1	○	400-442W-1	●
3/8"	7/8"	3/8"	2 1/2"	0.030"	400-443-1	○	400-443W-1	○
3/8"	1 1/8"	3/8"	3"	0.020"	401-422-1	●	401-422W-1	○
7/16"	5/8"	7/16"	2 1/2"	0.020"	402-472-1	○	402-472W-1	○
7/16"	5/8"	7/16"	2 1/2"	0.030"	402-473-1	○	402-473W-1	○
7/16"	1"	7/16"	2 3/4"	0.030"	400-453-1	○	400-453W-1	○
1/2"	5/8"	1/2"	2 1/2"	0.020"	402-482-1	●	402-482W-1	○
1/2"	5/8"	1/2"	2 1/2"	0.030"	402-483-1	○	402-483W-1	●
1/2"	1"	1/2"	3"	0.020"	400-462-1	○	400-462W-1	○
1/2"	1"	1/2"	3"	0.030"	400-463-1	○	400-463W-1	●
1/2"	1 1/4"	1/2"	3"	0.020"	400-472-1	●	400-472W-1	○
1/2"	1 1/4"	1/2"	3"	0.030"	400-473-1	○	400-473W-1	●
1/2"	2"	1/2"	4"	0.030"	401-433-1	○	401-433W-1	○
9/16"	1 1/8"	9/16"	3 1/2"	0.030"	400-483-1	○	400-483W-1	●
5/8"	3/4"	5/8"	3"	0.015"	402-491-1	○	402-491W-1	○
5/8"	3/4"	5/8"	3"	0.020"	402-492-1	●	402-492W-1	●
5/8"	3/4"	5/8"	3"	0.045"	402-494-1	○	402-494W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.045"	402-494-1	○	400-494W-1	○
5/8"	2 1/4"	5/8"	5"	0.045"	401-444-1	○	401-444W-1	○
3/4"	1"	3/4"	3"	0.045"	402-504-1	○	402-504W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.020"	400-492-1	○	400-492W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.030"	400-493-1	○	400-493W-1	○
3/4"	1 1/2"	3/4"	4"	0.030"	400-503-1	○	400-503W-1	○
3/4"	1 1/2"	3/4"	4"	0.045"	400-504-1	○	400-504W-1	○
3/4"	1 5/8"	3/4"	4"	0.045"	400-514-1	○	400-514W-1	○
1"	1 1/2"	1"	4"	0.045"	400-524-1	○	400-524W-1	○
1"	2 1/4"	1"	5"	0.045"	401-484-1	○	401-484W-1	○

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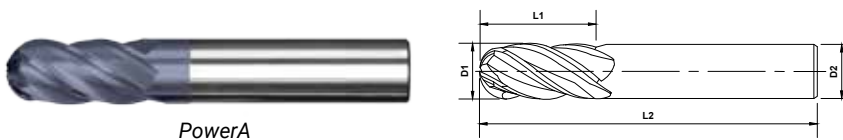
In-Stock ● Two Week Delivery ○

## V5 Square Endmills



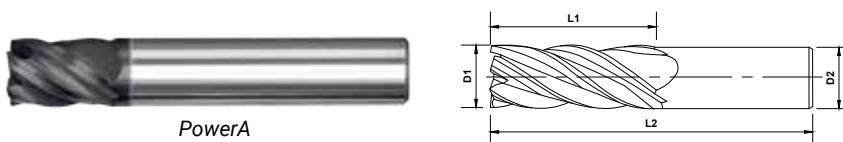
OD	LOC	SHK	OAL	PowerA			
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
3/8"	7/8"	3/8"	2 1/2"	408-010-1	○	408-010W-1	○
1/2"	1"	1/2"	3"	408-014-1	○	408-014W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	408-020-1	○	408-020W-1	○
3/4"	1 1/2"	3/4"	4"	408-024-1	○	408-024W-1	○

## V5 Ball Endmills



OD	LOC	SHK	OAL	PowerA			
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
3/8"	7/8"	3/8"	2 1/2"	408-210-1	○	408-210W-1	○
1/2"	1"	1/2"	3"	408-214-1	○	408-214W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	408-220-1	○	408-220W-1	○
3/4"	1 1/2"	3/4"	4"	408-222-1	○	408-222W-1	○
1"	1 1/2"	1"	4"	408-226-1	○	408-226W-1	○

## V5 Corner Radius Endmills

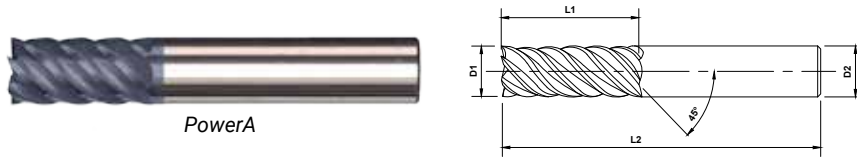


OD	LOC	SHK	OAL	RADIUS	PowerA			
D1	L1	D2	L2	R	NO FLAT	STOCK	WITH FLAT	STOCK
3/8"	7/8"	3/8"	2 1/2"	0.015"	408-441-1	○	408-441W-1	○
3/8"	7/8"	3/8"	2 1/2"	0.020"	408-442-1	○	408-442W-1	○
1/2"	1"	1/2"	3"	0.020"	408-462-1	○	408-462W-1	○
1/2"	1"	1/2"	3"	0.030"	408-463-1	○	408-463W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.020"	408-492-1	○	408-492W-1	○
5/8"	1 1/4"	5/8"	3 1/2"	0.030"	408-493-1	○	408-493W-1	○
3/4"	1 1/2"	3/4"	4"	0.030"	408-503-1	○	408-503W-1	○
3/4"	1 1/2"	3/4"	4"	0.045"	408-504-1	○	408-504W-1	○
1"	1 1/2"	1"	4"	0.030"	408-523-1	○	408-523W-1	○
1"	1 1/2"	1"	4"	0.045"	408-524-1	○	408-524W-1	○

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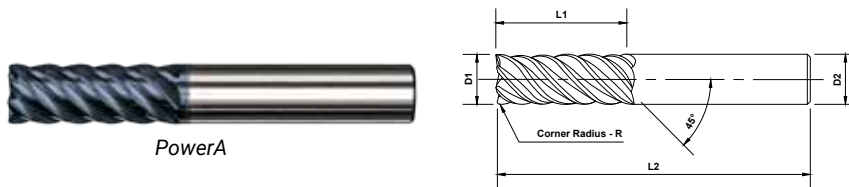
In-Stock ● Two Week Delivery ○

## F45 6 Flute Square Endmills



OD	LOC	SHK	OAL	UNCOATED		PowerA	
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
3/8"	1"	3/8"	2 1/2"	411-008	○	411-008-1	○
1/2"	1"	1/2"	3"	411-012	○	411-012-1	○
5/8"	1 1/4"	5/8"	3 1/2"	411-016	○	411-016-1	○
3/4"	1 1/2"	3/4"	4"	411-018	○	411-018-1	○
1"	1 1/2"	1"	4"	411-022	○	411-022-1	○

## F45 6 Fl Corner Radius Endmills

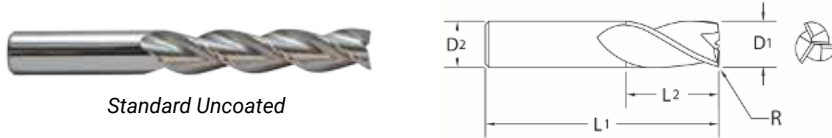


OD	LOC	SHK	OAL	RADIUS	UNCOATED		PowerA	
D1	L1	D2	L2	R	NO FLAT	STOCK	WITH FLAT	STOCK
1/4"	3/4"	1/4"	2 1/2"	0.010"	411-200	○	411-200-1	●
5/16"	7/8"	5/16"	2 1/2"	0.012"	411-210	○	411-210-1	●
3/8"	1"	3/8"	2 1/2"	0.012"	411-220	○	411-220-1	●
1/2"	1"	1/2"	3"	0.015"	411-241	○	411-241-1	●
5/8"	1 1/4"	5/8"	3 1/2"	0.020"	411-262	○	411-262-1	●
3/4"	1 1/2"	3/4"	4"	0.030"	411-273	○	411-273-1	●
1"	1 1/2"	1"	4"	0.030"	411-293	○	411-293-1	○

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In-Stock ● Two Week Delivery ○

## Square End AxMills - 3 Flute



Standard Uncoated

OD	LOC	SHK	OAL	UNCOATED		PowerZ	
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
1/8"	1/2"	1/8"	2 1/2"	420-002	○	420-002-4	●
3/16"	3/4"	3/16"	2"	420-006	○	420-006-4	●
1/4"	3/4"	1/4"	2 1/2"	420-008	○	420-008-4	●
1/4"	1"	1/4"	2 1/2"	420-010	○	420-010-4	●
1/4"	1 1/8"	1/4"	3"	421-014	○	421-014-4	●
5/16"	3/4"	5/16"	2 1/2"	420-012	○	420-012-4	●
3/8"	7/8"	3/8"	2 1/2"	420-016	○	420-016-4	●
3/8"	1"	3/8"	2 1/2"	420-018	○	420-018-4	●
1/2"	1"	1/2"	3"	420-022	○	420-022-4	●
1/2"	1 1/4"	1/2"	3"	420-024	○	420-024-4	●
5/8"	1 1/4"	5/8"	3 1/2"	420-028	○	420-028-4	●
5/8"	1 5/8"	5/8"	3 1/2"	420-030	○	420-030-4	●
3/4"	1 1/2"	3/4"	4"	420-032	○	420-032-4	●
3/4"	1 3/4"	3/4"	4"	420-034	○	420-034-4	●
1"	1 1/2"	1"	4"	420-036	○	420-036-4	○
1"	1 1/4"	1"	5"	-		421-164-4	○
1"	1 1/2"	1"	5"	-		421-166-4	○

\*2 Flute also available

## Ball End AxMills - 3 Flute



Standard Uncoated

OD	LOC	SHK	OAL	UNCOATED		PowerZ	
D1	L1	D2	L2	NO FLAT	STOCK	WITH FLAT	STOCK
3/8"	1"	3/8"	2 1/2"	420-218	○	420-218-4	●
1/4"	1"	1/4"	2 1/2"	420-210	○	420-210-4	●
1/4"	1 1/8"	1/4"	3"	421-214	○	421-214-4	●
3/8"	1 1/8"	3/8"	3"	421-230	○	421-230-4	●
7/16"	1"	7/16"	2 1/2"	420-220	○	420-220-4	●
1/2"	1"	1/2"	3"	420-222	○	420-222-4	●
1/2"	1 1/4"	1/2"	3"	420-224	○	420-224-4	●

\*2 Flute also available

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## Jobber Drills



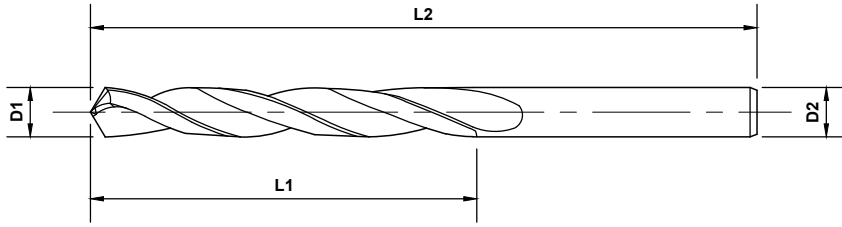
Uncoated

OD	LOC	SHK	OAL	WIRE	UNCOATED	
D1	L1	D2	L2	LETTER	2 FLUTE	STOCK
1/8"	1 1/4"	1/8"	2 1/4"	-	601-104	●
0.1285"	1 3/8"	0.1285"	2 1/2"	30	601-106	●
0.1360"	1 3/8"	0.1360"	2 1/2"	29	601-108	●
0.1378"	1 3/8"	0.1378"	2 1/2"	-	601-110	●
0.1405"	1 3/8"	0.1405"	2 1/2"	28	601-112	●
9/64"	1 3/8"	9/64"	2 1/2"	-	601-114	●
0.1440"	1 3/8"	0.1440"	2 1/2"	27	601-116	●
0.1470"	1 3/8"	0.1470"	2 1/2"	26	601-118	●
0.1495"	1 3/8"	0.1495"	2 1/2"	25	601-120	●
0.1520"	1 3/8"	0.1520"	2 1/2"	24	601-122	●
0.1540"	1 3/8"	0.1540"	2 1/2"	23	601-124	●
5/32"	1 3/8"	5/32"	2 1/2"	-	601-126	●
0.1570"	1 3/8"	0.1570"	2 1/2"	22	601-128	●
0.1575"	1 3/8"	0.1575"	2 1/2"	-	601-130	●
0.1590"	1 3/8"	0.1590"	2 1/2"	21	601-132	●
0.1610"	1 3/8"	0.1610"	2 1/2"	20	601-134	●
0.1660"	1 5/8"	0.1660"	2 3/4"	19	601-136	●
0.1695"	1 5/8"	0.1695"	2 3/4"	18	601-138	●
11/64"	1 5/8"	11/64"	2 3/4"	-	601-140	●
0.1730"	1 5/8"	0.1730"	2 3/4"	17	601-142	●
0.1770"	1 5/8"	0.1770"	2 3/4"	16	601-144	●
0.1772"	1 5/8"	0.1772"	2 3/4"	-	601-146	●
0.1800"	1 5/8"	0.1800"	2 3/4"	15	601-148	●
0.1820"	1 5/8"	0.1820"	2 3/4"	14	601-150	●
0.1850"	1 5/8"	0.1850"	2 3/4"	13	601-152	●
3/16"	1 5/8"	3/16"	2 3/4"	-	601-154	●
0.1890"	1 5/8"	0.1890"	2 3/4"	12	601-156	●
0.1910"	1 5/8"	0.1910"	2 3/4"	11	601-158	●
0.1935"	1 5/8"	0.1935"	2 3/4"	10	601-160	●
0.1960"	1 3/4"	0.1960"	3"	9	601-162	●
0.1968"	1 3/4"	0.1968"	3"	-	601-164	●
0.1990"	1 3/4"	0.1990"	3"	8	601-166	●
0.2010"	1 3/4"	0.2010"	3"	7	601-168	●
13/64"	1 3/4"	13/64"	3"	-	601-170	●
0.2040"	1 3/4"	0.2040"	3"	6	601-172	●
0.2055"	1 3/4"	0.2055"	3"	5	601-174	●
0.2090"	1 3/4"	0.2090"	3"	4	601-176	●
0.2130"	1 3/4"	0.2130"	3"	3	601-178	●
0.2165"	1 3/4"	0.2165"	3"	-	601-180	●
7/32"	1 3/4"	7/32"	3"	-	601-182	●
0.2210"	1 3/4"	0.2210"	3"	2	601-184	●
0.2280"	1 3/4"	0.2280"	3"	1	601-186	●
0.2340"	2"	0.2340"	3 1/4"	A	601-188	●
15/64"	2"	15/64"	3 1/4"	-	601-190	●
0.2362"	2"	0.2362"	3 1/4"	-	601-192	●
0.2380"	2"	0.2380"	3 1/4"	B	601-194	●
0.2420"	2"	0.2420"	3 1/4"	C	601-196	●
0.2460"	2"	0.2460"	3 1/4"	D	601-198	●
1/4"	2"	1/4"	3 1/4"	E	601-200	●

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## Jobber Drills



OD	LOC	SHK	OAL	WIRE	UNCOATED	
D1	L1	D2	L2	LETTER	2 FLUTE	STOCK
0.2559"	2"	0.2559"	3 1/4"	-	601-202	●
0.2570"	2"	0.2570"	3 1/4"	F	601-204	●
0.2610"	2 1/8"	0.2610"	3 1/2"	G	601-206	●
17/64"	2 1/8"	17/64"	3 1/2"	-	601-208	●
0.2660"	2 1/8"	0.2660"	3 1/2"	H	601-210	●
0.2720"	2 1/8"	0.2720"	3 1/2"	I	601-212	●
0.2756"	2 1/8"	0.2756"	3 1/2"	-	601-214	●
0.2770"	2 1/8"	0.2770"	3 1/2"	J	601-216	●
0.2810"	2 1/8"	0.2810"	3 1/2"	K	601-218	●
9/32"	2 1/8"	9/32"	3 1/2"	-	601-220	●
0.2900"	2 1/8"	0.2900"	3 1/2"	L	601-222	●
0.2950"	2 3/8"	0.2950"	4"	M	601-224	●
0.2953"	2 3/8"	0.2953"	4"	-	601-226	●
19/64"	2 3/8"	19/64"	4"	-	601-228	●
0.3020"	2 3/8"	0.3020"	4"	N	601-230	●
5/16"	2 3/8"	5/16"	4"	-	601-232	●
0.3150"	2 3/8"	0.3150"	4"	-	601-234	●
0.3160"	2 3/8"	0.3160"	4"	O	601-236	●
0.3230"	2 3/8"	0.3230"	4"	P	601-238	●
21/64"	2 3/8"	21/64"	4"	-	601-240	●
0.3320"	2 3/8"	0.3320"	4"	Q	601-242	●
0.3346"	2 3/8"	0.3346"	4"	-	601-244	●
0.3390"	2 3/8"	0.3390"	4"	R	601-246	●
11/32"	2 3/8"	11/32"	4"	-	601-248	●
0.3480"	2 3/8"	0.3480"	4"	S	601-250	●
0.3543"	2 3/4"	0.3543"	4 1/4"	-	601-252	●
0.3580"	2 3/4"	0.3580"	4 1/4"	T	601-254	●
23/64"	2 3/4"	23/64"	4 1/4"	-	601-256	●
0.3680"	2 3/4"	0.3680"	4 1/4"	U	601-258	●
0.3740"	2 3/4"	0.3740"	4 1/4"	-	601-260	●
3/8"	2 3/4"	3/8"	4 1/4"	-	601-262	●
0.3770"	2 3/4"	0.3770"	4 1/4"	V	601-264	●
0.3860"	2 7/8"	0.3860"	4 1/2"	W	601-266	●
25/64"	2 7/8"	25/64"	4 1/2"	-	601-268	●
0.3937"	2 7/8"	0.3937"	4 1/2"	-	601-270	●
0.3970"	2 7/8"	0.3970"	4 1/2"	X	601-272	●
0.4040"	2 7/8"	0.4040"	4 1/2"	Y	601-274	●
13/32"	2 7/8"	13/32"	4 1/2"	-	601-276	●
0.4130"	2 7/8"	0.4130"	4 1/2"	Z	601-278	●
0.4134"	2 7/8"	0.4134"	4 1/2"	-	601-280	●
27/64"	2 7/8"	27/64"	4 1/2"	-	601-282	●
0.4331"	2 7/8"	0.4331"	4 1/2"	-	601-284	●
7/16"	2 7/8"	7/16"	4 1/2"	-	601-286	●
0.4527"	3"	0.4527"	4 3/4"	-	601-288	●
29/64"	3"	29/64"	4 3/4"	-	601-290	●
15/32"	3"	15/32"	4 3/4"	-	601-292	●
0.4724"	3"	0.4724"	4 3/4"	-	601-294	●
31/64"	3"	31/64"	4 3/4"	-	601-296	●
0.4921"	3"	0.4921"	4 3/4"	-	601-298	●
1/2"	3"	1/2"	4 3/4"	-	601-300	●

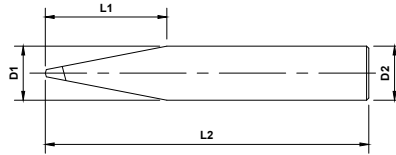
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## Spade Drills



Uncoated

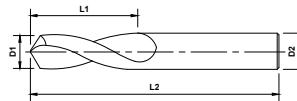


OD	LOC	SHK	OAL	UNCOATED		PowerA	
D1	L1	D2	L2	2 FLUTE	STOCK	2 FLUTE	STOCK
3/32"	3/8"	3/32"	1 1/2"	600-006	●	600-006-1	○
1/8"	7/16"	1/8"	1 1/2"	600-008	●	600-008-1	○
5/32"	15/32"	5/32"	2"	600-010	●	600-010-1	○
3/16"	9/16"	3/16"	2"	600-012	●	600-012-1	○
7/32"	19/32"	7/32"	2"	600-014	○	600-014-1	○
1/4"	11/16"	1/4"	2"	600-016	●	600-016-1	○
9/32"	3/4"	9/32"	2 1/2"	600-018	○	600-018-1	○
5/16"	7/8"	5/16"	2 1/2"	600-020	●	600-020-1	○
3/8"	1"	3/8"	2 1/2"	600-022	●	600-022-1	○
7/16"	1 1/16"	7/16"	2 1/2"	600-024	○	600-024-1	○
1/2"	1 1/8"	1/2"	2 1/2"	600-026	●	600-026-1	○

## Carbide NC Spotting Drills



Uncoated

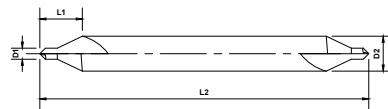


OD	LOC	SHK	OAL	UNCOATED			PowerA		
D1	L1	D2	L2	90°	120°	142°	90°	120°	142°
1/8"	3/8"	1/8"	2"	600-402 ●	600-502 ●	600-602 ●	600-402-1 ○	600-502-1 ○	600-602-1 ○
3/16"	3/4"	3/16"	3"	600-404 ●	600-504 ●	600-604 ●	600-404-1 ○	600-504-1 ○	600-604-1 ○
1/4"	3/4"	1/4"	3"	600-406 ●	600-506 ●	600-606 ●	600-406-1 ○	600-506-1 ○	600-606-1 ○
5/16"	1"	5/16"	2 1/2"	600-408 ●	600-508 ●	600-608 ●	600-408-1 ○	600-508-1 ○	600-608-1 ○
3/8"	1"	3/8"	3"	600-410 ●	600-510 ●	600-610 ●	600-410-1 ○	600-510-1 ○	600-610-1 ○
1/2"	1"	1/2"	4"	600-412 ●	600-512 ●	600-612 ●	600-412-1 ○	600-512-1 ○	600-612-1 ○

## Drill and Countersinks



Uncoated



OD	LOC	SHK	OAL	UNCOATED			PowerA		
D1	L1	D2	L2	60°	82°	90°	60°	82°	90°
3/64"	3/64"	1/8"	1 1/2"	600-304 ●	600-104 ○	600-204 ●	600-304-1 ○	600-104-1 ○	600-204-1 ○
5/64"	5/64"	3/16"	2"	600-306 ●	600-106 ○	600-206 ●	600-306-1 ○	600-106-1 ○	600-206-1 ○
7/64"	7/64"	1/4"	2"	600-308 ●	600-108 ○	600-208 ●	600-308-1 ○	600-108-1 ○	600-208-1 ○
1/8"	1/8"	5/16"	2 1/8"	600-310 ●	600-110 ○	600-210 ●	600-310-1 ○	600-110-1 ○	600-210-1 ○
3/16"	3/16"	7/16"	2 3/4"	600-312 ●	600-112 ○	600-212 ●	600-312-1 ○	600-112-1 ○	600-212-1 ○
7/32"	7/32"	1/2"	3"	600-314 ●	600-114 ○	600-214 ●	600-314-1 ○	600-114-1 ○	600-214-1 ○
1/4"	1/4"	5/8"	3 1/8"	600-316 ○	600-116 ○	600-216 ●	600-316-1 ○	600-116-1 ○	600-216-1 ○
5/16"	5/16"	3/4"	3 3/8"	600-318 ○	600-118 ○	600-218 ●	600-318-1 ○	600-118-1 ○	600-218-1 ○

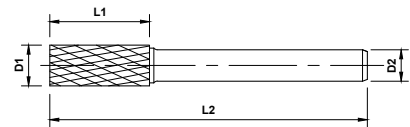
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## SA Burs - Cylindrical Shapes (Without End Cut)



OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	9/16"	1/8"	1 1/2"	SA-43DC*	●	-	
1/4"	1/2"	1/8"	2"	SA-51DC	●	-	
1/4"	5/8"	1/4"	2"	SA-1DC*	●	SA-1FM*	
3/8"	3/4"	1/4"	2 1/2"	SA-3DC	●	SA-3FM	●
3/8"	3/4"	1/4"	6 3/4"	SA-3L6DC	●	-	
1/2"	1"	1/4"	2 3/4"	SA-5DC	●	SA-5FM	●
1/2"	1"	1/4"	7"	SA-5L6DC	●	-	
3/4"	1"	1/4"	2 3/4"	SA7DC	●	-	

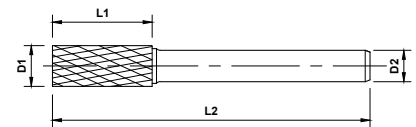


\*Denotes Solid Carbide

## SB Burs - Cylindrical Shapes (With End Cut)



OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	9/16"	1/8"	1 1/2"	SB-43DC*	●	-	
1/4"	3/16"	1/8"	2 15/16"	SB-51DC	●	-	
1/4"	5/8"	1/4"	2"	SB-1DC*	●	SB-1FM*	●
3/8"	3/4"	1/4"	2 1/2"	SB-3DC	●	SB-3FM	●
3/8"	3/4"	1/4"	6 3/4"	SB-3L6DC	●	-	
1/2"	1"	1/4"	2 3/4"	SB-5DC	●	SB-5FM	●
1/2"	1"	1/4"	7"	SB-5L6DC	●	-	



\*Denotes Solid Carbide

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## SC Burs - Radius Cylindrical Shape



Long Shank



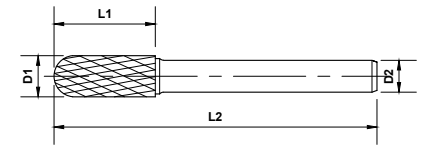
Doublecut



Alumacut

OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	9/16"	1/8"	1 1/2"	SC-42DC*	●	-	
1/4"	1/2"	1/8"	2"	SC-51DC	●	-	
1/4"	5/8"	1/4"	2"	SC-1DC*	●	-	
5/16"	3/4"	1/4"	2 1/2"	SC-2DC	●	-	
3/8"	3/4"	1/4"	2 1/2"	SC-3DC	●	SC-3FM	●
3/8"	3/4"	1/4"	6 3/4"	SC-3L6DC	●	SC-3L6FM	●
1/2"	1"	1/4"	2 3/4"	SC-5DC	●	SC-5FM	●
1/2"	1"	1/4"	7"	SC-5L6DC	●	-	

\*Denotes Solid Carbide



## SD Burs - Ball Shape



Long Shank



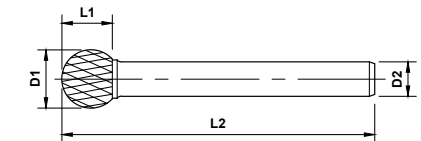
Doublecut



Alumacut

OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
3/32"	3/32"	1/8"	1 1/2"	SD-41DC	●	-	
1/8"	1/8"	1/8"	1 1/2"	SD-42DC*	●	-	
1/4"	7/32"	1/8"	1 3/4"	SD-51DC	●	-	
1/4"	7/32"	1/4"	2"	SD-1DC*	●	-	
3/8"	5/16"	1/4"	2 1/8"	SD-3DC	●	SD-3FM	●
3/8"	5/16"	1/4"	6 3/8"	SD-3L6DC	●	-	
1/2"	7/16"	1/4"	2 1/4"	SD-5DC	●	SD-5FM	●
1/2"	7/16"	1/4"	6 1/2"	SD-5L6DC	●	-	

\*Denotes Solid Carbide

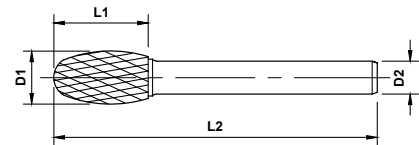


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## SE Burs - Oval Shape



OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	7/32"	1/8"	1 1/2"	SE-41DC*	●	-	
1/4"	3/8"	1/8"	1 3/4"	SE-51DC	●	-	
1/4"	3/8"	1/4"	2"	SE-1DC	●	-	
3/8"	5/8"	1/4"	2 3/8"	SE-3DC	●	SE-3FM	●
3/8"	5/8"	1/4"	6 5/8"	SE-3L6DC	●	-	
1/2"	7/8"	1/4"	2 5/8"	SE-5DC	●	SE-5FM	●
1/2"	7/8"	1/4"	6 7/8"	SE-5L6DC	●	-	

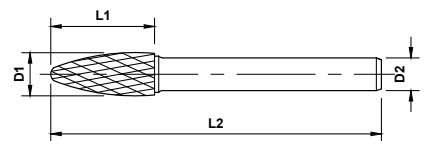


\*Denotes Solid Carbide

## SF Burs - Radius Tree Shape

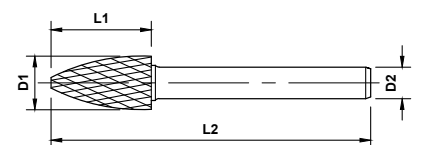


OD	LOC	SHK	OAL	CUT TYPE			
D1	L1	D2	L2	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	1/2"	1/8"	1 1/2"	SF-42DC*	●	-	
1/4"	5/8"	1/4"	2"	SF-1DC*	●	-	
3/8"	3/4"	1/4"	2 1/2"	SF-3DC	●	SF-3FM	●
3/8"	3/4"	1/4"	6 3/4"	SF-3L6DC	●	-	
1/2"	1"	1/4"	2 3/4"	SF-5DC	●	SF-5FM	●
1/2"	1"	1/4"	7"	SF-5L6DC	●	-	



\*Denotes Solid Carbide

## SG Burs - Pointed Tree Shape



OD	LOC	SHK	OAL	CUT TYPE	
D1	L1	D2	L2	DOUBLECUT	STOCK
1/8"	1/4"	1/8"	1 1/2"	SG-41DC*	●
1/4"	1/2"	1/4"	2"	SG-1DC*	●
5/16"	3/4"	1/4"	2 1/2"	SG-2DC	●
1/2"	1 1/4"	1/4"	3"	SG-5DC	●

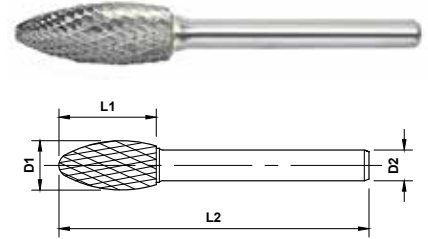
\*Denotes Solid Carbide

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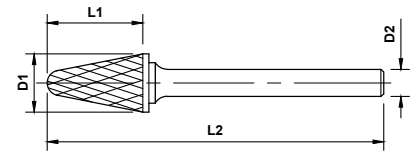
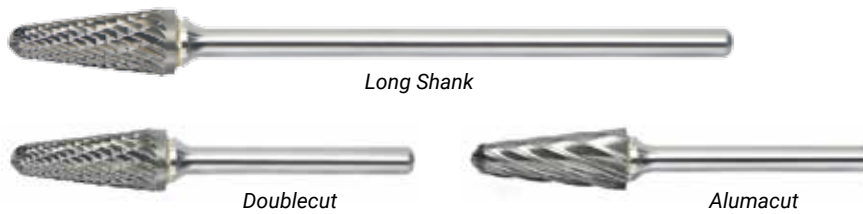
## SH Burs - Flame Shape

OD	LOC	SHK	OAL	CUT TYPE	
D1	L1	D2	L2	DOUBLECUT	STOCK
1/8"	1/4"	1/8"	1 1/2"	SH-41DC	●
1/4"	1/2"	1/4"	2"	SH-1DC	●
5/16"	3/4"	1/4"	2 1/2"	SH-2DC	●
1/2"	1 1/4"	1/4"	3"	SH-5DC	●



\*Denotes Solid Carbide

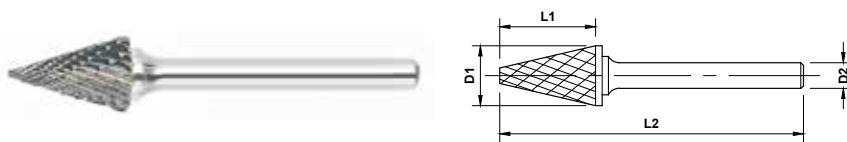
## SL Burs - Radius Cone Shape



OD	LOC	SHK	OAL	ANGLE	CUT TYPE			
D1	L1	D2	L2	DEG	DOUBLECUT	STOCK	ALUMACUT	STOCK
1/8"	3/8"	1/8"	1 1/2"	8°	SL-41DC*	●	-	●
1/4"	5/8"	1/4"	2"	14°	SL-1DC*	●	-	●
3/8"	1 1/16"	1/4"	2 13/16"	14°	SL-3DC	●	SL-3FM	●
3/8"	1 1/16"	1/4"	7 1/16"	14°	SL-3L6DC	●	-	●
1/2"	1 1/8"	1/4"	2 7/8"	14°	SL-4DC	●	SL-4FM	●
1/2"	1 1/8"	1/4"	7 1/8"	14°	SL-4L6DC	●	-	●

\*Denotes Solid Carbide

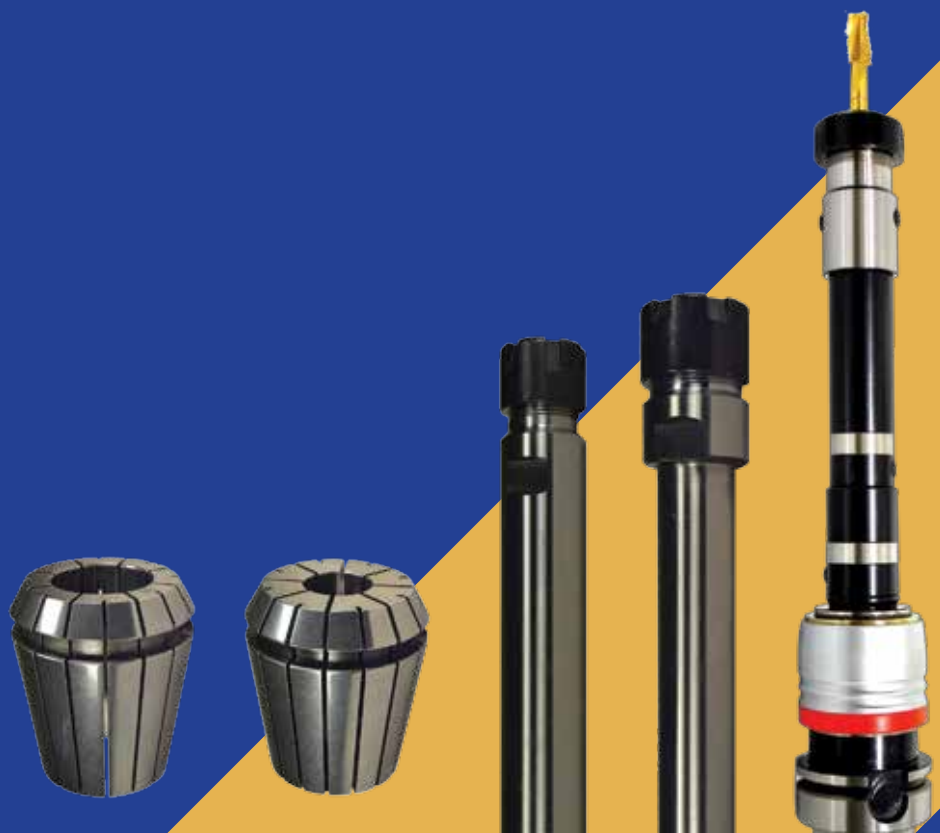
## SM Burs - Pointed Cone Shape



OD	LOC	SHK	OAL	ANGLE	CUT TYPE			
D1	L1	D2	L2	DEG	DOUBLECUT	STOCK	CHIPBREAKER	STOCK
1/8"	1 1/32"	1/8"	1 1/2"	12°	SM-41DC*	●	SM-41CB*	●
1/4"	1/2"	1/8"	2 1/8"	22°	SM-51SC	●	-	
1/4"	1/2"	1/4"	2"	22°	SM-1DC*	●	SM-1CB*	●
1/4"	1"	1/4"	2"	14°	SM-3SC*	●	-	
3/8"	5/8"	1/4"	2 1/2"	14°	SM-4DC	●	SM-4CB	●
1/2"	7/8"	1/4"	2 5/8"	14°	SM-5DC	●	SM-5CB	●
1/2"	7/8"	1/4"	6 7/8"	14°	SM-5L6DC	●	SM-5L6CB	●

\*Denotes Solid Carbide

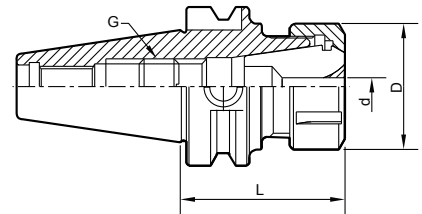
# COLLETS, TAPPING HEADS & SPINDLE TOOLING



# SPINDLE TOOLING - CAT40

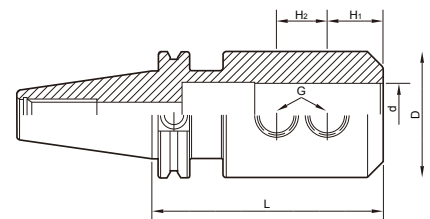
In-Stock ● Two Week Delivery ○

## ER Collet Chuck



TAPER SHANK	ORDER CODE	TYPE	L	D	d	G	STOCK
CAT40	341100-3020	CAT40-ER16-2.76"	2.76"	1.102"	0.02"-0.40"	M10 x 1.5P	●
CAT40	341100-3040	CAT40-ER16-4"	4.00"	1.102"	0.02"-0.40"	M10 x 1.5P	●
CAT40	341100-4020	CAT40-ER20-2.76"	2.76"	1.339"	0.04"-0.51"	M12 x 1.75P	●
CAT40	341100-4040	CAT40-ER20-4"	4.00"	1.339"	0.04"-0.51"	M12 x 1.75P	●
CAT40	341100-5020	CAT40-ER25-2.76"	2.76"	1.654"	0.04"-0.63"	M16 x 2.0P	●
CAT40	341100-5040	CAT40-ER25-4"	4.00"	1.654"	0.04"-0.63"	M16 x 2.0P	●
CAT40	341100-6020	CAT40-ER32-2.76"	2.76"	1.969"	0.08"-0.79"	M16 x 2.0P	●
CAT40	341100-6040	CAT40-ER32-4"	4.00"	1.969"	0.08"-0.79"	M16 x 2.0P	●
CAT40	341100-7020	CAT40-ER40-2.76"	2.76"	2.480"	0.12"-1.02"	M20 x 2.0P	●
CAT40	341100-7040	CAT40-ER40-4"	4.00"	2.480"	0.12"-1.02"	M20 x 2.0P	●
CAT40	CAT40ER16060	CAT40-ER16-60mm	60mm	1.102"	0.02"-0.40"	M10 x 1.5P	●
CAT40	CAT40ER16100	CAT40-ER16-100mm	100mm	1.102"	0.02"-0.40"	M10 x 1.5P	●
CAT40	CAT40ER32070	CAT40-ER32-70mm	70mm	1.969"	0.08"-0.79"	M20 x 2.0P	●
CAT40	CAT40ER32100	CAT40-ER32-100mm	100mm	1.969"	0.08"-0.79"	M20 x 2.0P	●

## Side Lock Holder

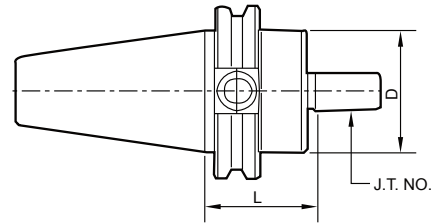


TAPER SHANK	ORDER CODE	TYPE	d	L	D	H1	H2	G	STOCK
CAT40	341160-0420	CAT40-SL 1/4"-3"	1/4"	3.00"	0.78"	0.630"	-	1/4-28	●
CAT40	341160-0520	CAT40-SL 5/16"-3"	5/16"	3.00"	0.88"	0.630"	-	5/16-24	●
CAT40	341160-0620	CAT40-SL 3/8"-3"	3/8"	3.00"	1.00"	0.750"	-	3/8-24	●
CAT40	341160-0820	CAT40-SL 1/2"-3"	1/2"	3.00"	1.25"	0.875"	-	7/16-20	●
CAT40	341160-1020	CAT40-SL 5/8"-3"	5/8"	3.00"	1.50"	0.937"	0.875"	1/2-20	●
CAT40	341160-1220	CAT40-SL 3/4"-3"	3/4"	3.00"	1.75"	1.000"	1"	5/8-18	●
CAT40	341160-1620	CAT40-SL 1"-4"	1"	4.00"	2.00"	1.125"	1"	3/4-16	●
CAT40	341160-1820	CAT40-SL 1"-1/4"-4.6"	1-1/4"	4.60"	2.50"	1.125"	-	3/4-16	●

# SPINDLE TOOLING - CAT40

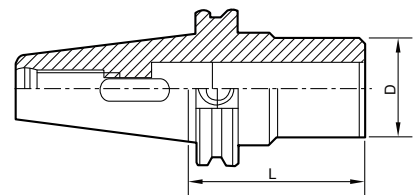
In-Stock ● Two Week Delivery ○

## Jacob Drill Chuck Adaptor



TAPER SHANK	ORDER CODE	TYPE	TAPER NO.	L	D	STOCK
CAT40	341200-220	CAT40-JTA2-1.57"	JT2	1.57"	1.75"	●
CAT40	341200-620	CAT40-JTA6-1.57"	JT6	1.57"	1.75"	●
CAT40	341200-3320	CAT40-JTA33-1.57"	JT33	1.57"	1.75"	●

## Morse Taper Adapter



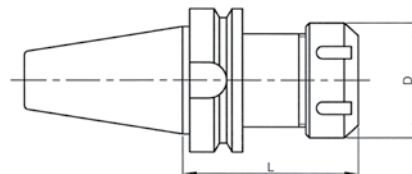
TAPER SHANK	ORDER CODE	TYPE	TAPER NO.	L	D	STOCK
CAT40	341210-102	CAT40-MTA1-1.60"	1	1.60"	1.00"	●
CAT40	341210-202	CAT40-MTA2-2.00"	2	2.00"	1.25"	●
CAT40	342110-302	CAT40-MTA3-2.75"	3	2.75"	1.55"	●
CAT40	342110-402	CAT40-MTA4-3.75"	4	3.75"	1.75"	●

COLLETS

# SPINDLE TOOLING - BT40

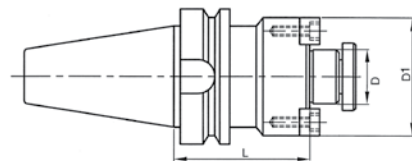
In-Stock ● Two Week Delivery ○

## ER Collet Chuck



CODE	CLAMPING RANGE	COLLET TYPE	L	D	STOCK
	mm		mm	mm	
BT40ER16	Ø1-10	ER16	60	28	●
BT40ER16 100	Ø1-10	ER16	100	28	●
BT40ER16 130M	Ø1-10	ER16	130	22	●
BT40ER20	Ø2-13	ER20	70	34	●
BT40ER20 100	Ø2-13	ER20	100	34	●
BT40ER25	Ø2-16	ER25	70	42	●
BT40ER25 100	Ø2-16	ER25	100	42	●
BT40ER32	Ø3-20	ER32	70	50	●
BT40ER32 100	Ø3-20	ER32	100	50	●
BT40ER40	Ø4-26	ER40	70	63	●
BT40ER40 100	Ø4-26	ER40	100	63	●

## Face Mill Adapter

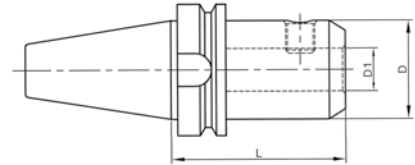


CODE	D	D1	L	STOCK
	mm	mm	mm	
BT40FM16	16	40	40	○
BT40FM22	22	48	45	○
BT40FM27	27	60	45	○
BT40FM32	32	78	50	○
BT40FM40	40	89	55	○

# SPINDLE TOOLING - BT40

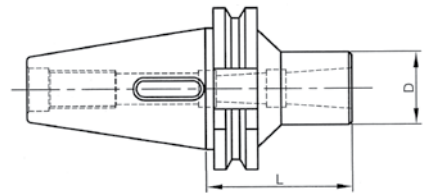
In-Stock ● Two Week Delivery ○

## Weldon Adapter



CODE	D	D1	L	STOCK
	mm	mm	mm	
BT40W06	6	25	50	●
BT40W08	8	28	50	●
BT40W10	10	35	63	●
BT40W12	12	42	63	●
BT40W14	14	44	50	●
BT40W16	16	48	63	●
BT40W20	20	52	63	●
BT40W25	25	65	90	●
BT40W32	32	72	100	●
BT40W40	40	80	120	●

## Morse Taper Adaptor



CODE	MT	D1	L	STOCK
		mm	mm	
BT40MT1	1	25	50	○
BT40MT2	2	32	50	○
BT40MT3	3	40	70	○
BT40MT4	4	48	95	○

COLLETS

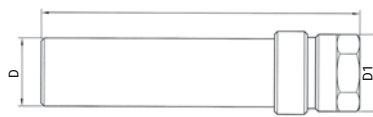


# STRAIGHT SHANK ER COLLET HOLDERS

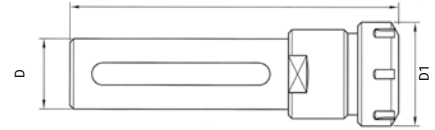
In-Stock ● Two Week Delivery ○



M= with ER Mini locknut



H= with ER Hexagon locknut



S= with ER Standard locknut

CODE	COLLET TYPE	D	D1	L	STOCK
		mm	mm	mm	
ER0808085M	ER08	8	12	85	●
ER0810095M	ER08	10	12	95	●
ER0812095M	ER08	12	12	95	●
ER0812150MXL	ER08	12	12	95	●
ER1112100M	ER11	12	16	100	●
ER1116115M	ER11	16	16	115	●
ER1116165M	ER11	16	16	165	●
ER1116115H	ER11	16	19	115	●
ER1620130M	ER16	20	22	130	●
ER1620200M	ER16	20	22	200	●
ER1620130H	ER16	20	28	130	●
ER1620130S	ER16	20	32	130	●
ER2020140M	ER20	20	28	140	●
ER2020140H	ER20	20	34	140	●
ER2020140S	ER20	20	35	140	●
ER2025110H	ER20	25	34	110	●
ER2025110S	ER20	25	35	110	●
ER2025200M	ER20	25	28	200	●



# STRAIGHT SHANK ER COLLET HOLDERS

In-Stock ● Two Week Delivery ○



M= with ER Mini locknut



H= with ER Hexagon locknut



S= with ER Standard locknut

CODE	COLLET TYPE	D	D1	L	STOCK
		mm	mm	mm	
ER2520145M	ER25	20	35	145	●
ER2525145M	ER25	25	35	145	●
ER2525200M	ER25	25	35	200	●
ER25254200M	ER25	25.4(1.0")	35	200	●
ER2532105S	ER25	32	42	105	●

ER3225110S	ER32	25	50	110	●
ER3232110S	ER32	32	50	110	●
ER3240110S	ER32	40	50	110	●
328100-6720	ER32	1.0"	50	3.0"	●

ER4032140S	ER40	32	63	140	●
ER4040140S	ER40	40	63	140	●
328100-7920	ER40	1.25"	63	3.0"	●



COLLETS

# LOCKNUTS/SPANNERS

## Locknuts

In-Stock ● Two Week Delivery ○

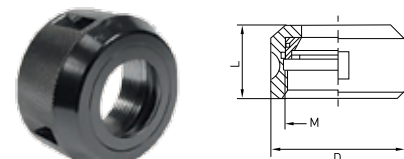
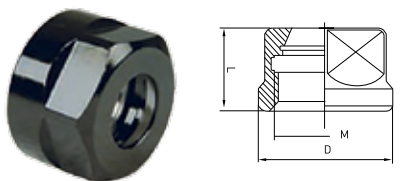
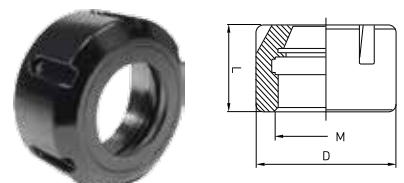
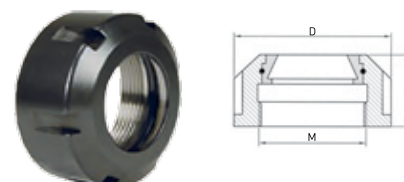
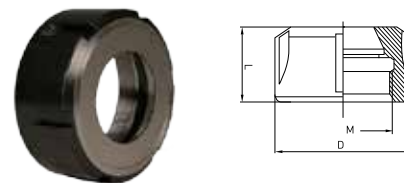
CODE	ER TYPE	D	L	M	STOCK
ER STANDARD LOCKNUT					
		mm	mm		
NER16S	ER16	32	17.5	M22 x 1.5	●
NER20S	ER20	35	19	M25 x 1.5	●
NER25S	ER25	42	20	M32 x 1.5	●
NER32S	ER32	50	22.5	M40 x 1.5	●
NER40S	ER40	63	25.5	M50 x 1.5	●
NER50S	ER50	78	35	M64 x 2	●

ER BEARING TYPE LOCKNUT					
NER25B	ER25	42	23	M23 x 1.5	●
NER32B	ER32	50	25	M40 x 1.5	●
NER40B	ER40	63	28.5	M50 x 1.5	●

ER MINI LOCKNUT					
NER08M	ER8 Mini	12	11	M10 x 0.75	●
NER11M	ER11 Mini	16	11.8	M13 x 0.75	●
NER16M	ER16 Mini	22	19	M19 x 1	●
NER20M	ER20 Mini	28	16	M24 x 1	●
NER25M	ER25 Mini		20	M30 x 1	●

ER HEXAGON LOCKNUT					
NER11H	ER11	19	13.5	M14 x 0.75	●
NER16H	ER16	28	17	M22 x 1.5	●
NER20H	ER20	34	19	M25 x 1.5	●

DIN6388-25 LOCKNUT					
NOZ25B	-	60	33	M48 x 2	



## Spanners

CODE	ER TYPE	STOCK
ER STANDARD SPANNER		
SPER16S	ER16	●
SPER20S	ER20	●
SPER25S	ER25	●
SPER32S	ER32	●
SPER40S	ER40	●
SPER50S	ER50	●
ER MINI SPANNER		
SPER08M	ER8 MINI	●
SPER11M	ER11 MINI	●
SPER16M	ER 16 MINI	●
SPER20M	ER20 MINI	●
SPER25M	ER25 MINI	●
ER HEXAGON SPANNER		
SPER11H	ER11	●
SPER16H	ER16	●
SPER20H	ER20	●
DIN6388-25 SPANNER		
SPOZ25	DIN6388B-25	●

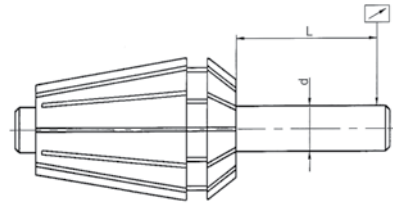


# COLLET PRECISION STANDARDS

In-Stock ● Two Week Delivery ○

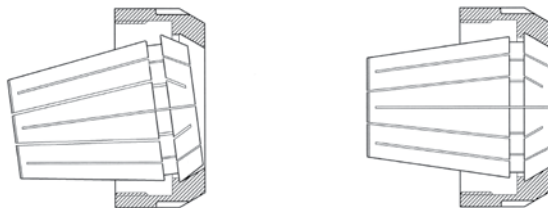
## TWO DIFFERENT PRECISION LEVELS

<b>CLASS 2</b>	Precise and economic, according to DIN 6499 Class 2 Max 15-20 micron run out
<b>TOPAC</b>	<b>TOP</b> level <b>AC</b> curacy with guaranteed run out to 5 micron, Suitable for very high precision, tight tolerance, high speed applications



$\varnothing d$	L	DIN6499 CLASS 2	TOPAC
mm	mm		
1 - 1.6	6	0.0006"	0.0002"
1.6 - 3	10	0.0006"	0.0002"
3 - 7	16	0.0006"	0.0002"
7 - 10	25	0.0006"	0.0002"
10 - 18	40	0.0008"	0.0002"
18 - 25	50	0.0008"	0.0002"
25 - 34	60	0.001"	0.0004"

## Collet Mounting Instructions



## Collet Packaging

- The different precision levels are distinguished with different colours of caps on the plastic boxes.

### COLLET PACKAGING

Transparent cap: Class 2 (max. 15-20 micron run out)



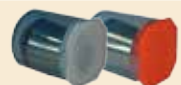
Red cap: TOPAC (max. 5 micron run out)



Green cap: only specifies it is an ER tapping collet



Light Blue body: Specifies it is a coolant sealed collet



# COLLETS-ER 8/ER 11

In-Stock ● Two Week Delivery ○

D	8.5mm
L	13mm
Clamping Range	1.0-5.0mm
Clamping Steps	0.5mm



D	11.5mm
L	18mm
Clamping Range	1.0-7.0mm
Clamping Steps	0.5mm



ER 8 COLLETS				
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER080102	●	ER08010T	●
1.5-1.0mm	ER080152	●	ER08015T	●
1/16"	ER080159	●	ER080159T	●
2.0-1.5mm	ER080202	●	ER08020T	●
2.5-2.0mm	ER080252	●	ER08025T	●
1/8"	ER083182	●	ER08318T	●
3.0-2.5mm	ER080302	●	ER08030T	●
3.5-2.5mm	ER080352	●	ER08035T	●
4.0-3.0mm	ER080402	●	ER08040T	●
3/16"	ER1604762	●	ER080476T	●
4.5-3.5mm	ER080452	●	ER08045T	●
5.0-4.0mm	ER080502	●	ER08050T	●

ER 11 COLLETS				
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER110102	●	ER11010T	●
1.5-1.0mm	ER110152	●	ER11015T	●
1/16"	ER1101592	●	ER110159T	●
2.0-1.5mm	ER110202	●	ER11020T	●
2.5-2.0mm	ER110252	●	ER11025T	●
1/8"	ER1103182	●	ER110318T	●
3.0-2.5mm	ER110302	●	ER11030T	●
3.5-2.5mm	ER110352	●	ER11035T	●
4.0-3.0mm	ER110402	●	ER11040T	●
3/16"	ER1604762	●	ER110476T	●
4.5-3.5mm	ER110452	●	ER11045T	●
5.0-4.0mm	ER110502	●	ER11050T	●
5.5-4.5mm	ER110552	●	ER11055T	●
6.0-5.0mm	ER110602	●	ER11060T	●
1/4"	ER1106352	●	ER110635T	●
6.5-6.0mm	ER110652	●	ER11065T	●
7.0-6.5mm	ER110702	●	ER11070T	●

## ER 8 Collet Sets

CODE	CLASS TYPE	CONTENT	STOCK
ER08SET2	Class 2	9 Pcs ER08 Collet Set 1.0-5.0 x 0.5mm	●
ER08SETT	TOPAC	9 Pcs ER08 Collet Set 1.0-5.0 x 0.5mm	●

## ER 11 Collet Sets

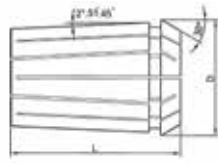
CODE	CLASS TYPE	CONTENT	STOCK
ER11SET2	Class 2	13 Pcs Collet Set 1.0-7.0 x 0.5mm	●
ER11hSETT	TOPAC	13 Pcs Collet Set 1.0-7.0 x 0.5mm	●



# COLLETS-ER 16

In-Stock ● Two Week Delivery ○

D	17mm
L	27.5mm
Clamping Range	1.0-10.0mm
Clamping Steps	1.0mm



COLLETS					COOLANT COLLETS			
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER160102	●	ER16010T	●	-		-	
1.5-1.0mm	ER160152	●	ER16015T	●	-		-	
1/16"	ER1601592	●	ER160159T	●	-		-	
2.0-1.5mm	ER160202	●	ER16020T	●	-		-	
2.5-2.0mm	ER160252	●	ER16025T	●	-		-	
1/8"	ER1603182	●	ER160318T	●	-		-	
3.0-2.5mm	ER160302	●	ER16030T	●	ERC160302	●	ERC16030T	●
3.5-2.5mm	ER160352	●	ER16035T	●	-		-	
4.0-3.0mm	ER160402	●	ER16040T	●	ERC160402	●	ERC16040T	●
3/16"	ER1604762	●	ER160476T	●	-		-	
4.5-3.5mm	ER160452	●	ER16045T	●	-		-	
5.0-4.0mm	ER160502	●	ER16050T	●	ERC160502	●	ERC16050T	●
5.5-4.5mm	ER160552	●	ER16055T	●	-		-	
6.0-5.0mm	ER160602	●	ER16060T	●	ERC160602	●	ERC16060T	●
1/4"	ER1606352	●	ER160635T	●	ERC1606352	●	ERC160635T	●
6.5-5.5mm	ER160652	●	ER16065T	●	-		-	
7.0-6.0mm	ER160702	●	ER16070T	●	ERC160702	●	ERC16070T	●
5/16"	ER1607942	●	ER160794T	●	ERC1607942	●	ERC160794T	●
7.5-6.5mm	ER160752	●	ER16075T	●	-		-	
8.0-7.0mm	ER160802	●	ER16080T	●	ERC160802	●	ERC16080T	●
8.5-7.5mm	ER160852	●	ER16085T	●	-		-	
9.0-8.0mm	ER160902	●	ER16090T	●	ERC160902	●	ERC16090T	●
3/8"	ER1609532	●	ER160953T	●	ERC1609532	●	ERC160953T	●
9.5-8.5mm	ER160952	●	ER16095T	●	-		-	
10.0-9.0mm	ER161002	●	ER16100T	●	ERC161002	●	ERC16100T	●

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ER16SET2	Class 2	10 Pcs Collet Set 1.0-10 x 1.0mm	●
ER16SETT	TOPAC	10 Pcs Collet Set 1.0-10 x 1.0mm	●
ER16SETIN2	Class 2	6 Pcs Collet Set 1/16"-3/8"x1/16"	●

COOLANT COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ERC16SET2	Class 2	8pc Coolant Sealed Collet Set, 3-10mm	●
ERC16SETT	TOPAC	8pc Coolant Sealed Collet Set, 3-10mm	●

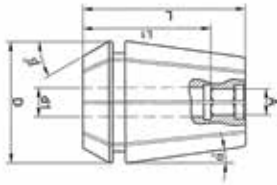


COLLETS

Collets, Spindle Tooling •

# TAPPING COLLETS-ER 16

In-Stock ● Two Week Delivery ○



DIN TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT16028	2.8mm	2.1mm	DIN371 M2/M2.5 - DIN376 M4	●
ERT16035	3.5mm	2.7mm	DIN371 M3 - DIN376 M5	●
ERT16040	4.0mm	3.15/3.2mm	ISO M4/M5 - JIS M3/M3.5	●
ERT16045	4.5mm	3.4mm	DIN 371 M4 - DIN 376 M6	●
ERT16050	5.0mm	4.0mm	ISO M5 - JIS M4	●
ERT16055	5.5mm	4.5mm	DIN374/DIN376 M7	●
ERT16060	6.0mm	4.9mm	DIN371 M4.5/M5/M6 - DIN374/376 M8	●
ERT16063	6.3mm	5.0mm	ISO M6/M8/1/4"/5/16"	●
ERT16070	7.0mm	5.5mm	DIN371 M7 - DIN374/376 M9/M10 - JIS M9/M10	●
ERT16080	8.0mm	6.2/6.3mm	DIN371 M8 - ISO M8/M10/5/16"/7/16"	●

ANSI TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT16-141	0.141"	0.101"	0-#6 (M3)	●
ERT16-168	0.168"	0.131"	#8, 5/32 (M4)	●
ERT16-194	0.194"	0.152"	#10, 3/16 (M5)	●
ERT16-220	0.220"	0.165"	#12, 7/32	●
ERT16-255	0.255"	0.191"	#14, 1/4 (M6)	●
ERT16-318	0.318"	0.238"	5/16 (M7, M8)	●

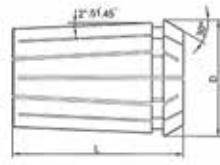
## Collet Sets

TAPPING COLLET SETS		
CODE	CONTENT	STOCK
ERT16SET	10pc DIN Tap Collet Set - 2.8-8.0mm	●

# COLLETS-ER 20

In-Stock ● Two Week Delivery ○

D	21mm
L	31.5mm
Clamping Range	1.0-13mm
Clamping Steps	1.0mm



COLLETS					COOLANT COLLETS			
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER200102	●	ER20010T	●	-		-	
1.5-1.0mm	ER200152	●	ER20015T	●	-		-	
1/16"	ER2001592	●	ER200159T	●	-		-	
2.0-1.5mm	ER200202	●	ER20020T	●	-		-	
2.5-2.0mm	ER200252	●	ER20025T	●	-		-	
1/8"	ER2003182	●	ER200318T	●	-		-	
3.0-2.5mm	ER200302	●	ER20030T	●	ERC200302	●	ERC200302T	●
3.5-2.5mm	ER200352	●	ER20035T	●	-		-	
4.0-3.0mm	ER200402	●	ER20040T	●	ERC200402	●	ERC20040T	●
3/16"	ER2004762	●	ER200476T	●	-		-	
4.5-3.5mm	ER200452	●	ER20045T	●	-		-	
5.0-4.0mm	ER200502	●	ER20050T	●	ERC200502	●	ERC20050T	●
6.0-5.0mm	ER200602	●	ER20060T	●	ERC200602	●	ERC20060T	●
1/4"	ER2006352	●	ER200635T	●	ERC2006352	●	ERC200635T	●
7.0-6.0mm	ER200702	●	ER20070T	●	ERC200702	●	ERC20070T	●
5/16"	ER2007942	●	ER200794T	●	ERC2007942	●	ERC200794T	●
8.0-7.0mm	ER200802	●	ER20080T	●	ERC200802	●	ERC20080T	●
9.0-8.0mm	ER200902	●	ER20090T	●	ERC200902	●	ERC20090T	●
3/8"	ER2009532	●	ER200953T	●	ERC2009532	●	ERC200953T	●
10.0-9.0mm	ER201002	●	ER20100T	●	ERC201002	●	ERC20100T	●
11.0-10.0mm	ER201102	●	ER20110T	●	ERC201102	●	ERC20110T	●
7/16"	ER2011112	●	ER201111T	●	ERC2011112	●	ERC201111T	○
12.0-11.0mm	ER201202	●	ER20120T	●	ERC201202	●	ERC20120T	●
1/2"	ER2012702	●	ER201270T	●	-		-	
13.0-12.0mm	ER201302	●	ER20130T	●	ERC201302	●	ERC20130T	○

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ER20SET2	Class 2	12 Pcs Collet Set 2.0-13mm x 1.0mm	●
ER20SETT	TOPAC	12 Pcs Collet Set 2.0-13mm x 1.0mm	●
ER20SETIN2	Class 2	8 Pcs Collet Set 1/16"-1/2"x1/16"	●

COOLANT COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ERC20SET2	Class 2	11pc Coolant Sealed Collet Set, 3-13mm	●
ERC20SETT	TOPAC	11pc Coolant Sealed Collet Set, 3-13mm	●



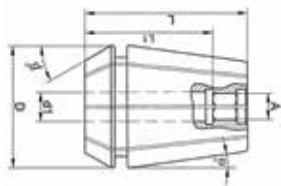
COLLETS

Collets, Spindle Tooling •



# TAPPING COLLETS-ER 20

In-Stock ● Two Week Delivery ○



DIN TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT20035	3.5mm	2.7mm	DIN371 M3 - DIN376 M5	●
ERT20040	4.0mm	3.15/3.2mm	ISO M4/M5 - JIS M3/M3.5	●
ERT20045	4.5mm	3.4mm	DIN 371 M4 - DIN 376 M6	●
ERT20050	5.0mm	4.0mm	ISO M5 - JIS M4	●
ERT20055	5.5mm	4.5mm	DIN374/DIN376 M7	●
ERT20060	6.0mm	4.9mm	DIN371 M4.5/M5/M6 - DIN374/376 M8	●
ERT20063	6.3mm	5.0mm	ISO M6/M8/1/4"/5/16"	●
ERT20070	7.0mm	5.5mm	DIN371 M7 - DIN374/376 M9/M10 - JIS M9/M10	●
ERT20080	8.0mm	6.2/6.3mm	DIN371 M8 - ISO M8/M10/5/16"/7/16"	●
ERT20090	9.0mm	7.0mm	DIN374/376 M12 - ISO M12/1/2"	●
ERT20100	10.0mm	8.0mm	DIN371 M10 - ISO M10/3/8"	●
ERT20110	11.0mm	9.0mm	DIN374/376 M14/9/16"	●
ERT20120	12.0mm	9.0mm	DIN374/376M16/5/8"	●

ANSI TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT20-141	0.141"	0.101"	0-#6 (M3)	●
ERT20-168	0.168"	0.131"	#8, 5/32 (M4)	●
ERT20-194	0.194"	0.152"	#10, 3/16 (M5)	●
ERT20-220	0.220"	0.165"	#12, 7/32	●
ERT20-255	0.255"	0.191"	#14, 1/4 (M6)	●
ERT20-318	0.318"	0.238"	5/16 (M7, M8)	●
ERT20-323	0.323"	0.242"	7/16	●
ERT20-367	0.367"	0.275"	1/2 (M12)	●
ERT20-381	0.381"	0.286"	3/8 (M10)	●

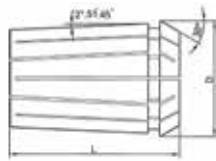
## Collet Sets

TAPPING COLLET SETS		
CODE	CONTENT	STOCK
ERT20SET	13pc DIN Tap Collet Set - 3.5-12.0mm	●

# COLLETS-ER 25

In-Stock ● Two Week Delivery ○

D	26mm
L	34mm
Clamping Range	2.0-16.0mm
Clamping Steps	1.0mm



COLLETS					COOLANT COLLETS			
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER250102	●	ER25010T	●	-		-	
1.5-1.0mm	ER250152	●	ER25015T	●	-		-	
1/16"	ER2501592	●	ER250159T	●	-		-	
2.0-1.5mm	ER250202	●	ER25020T	●	-		-	
2.5-2.0mm	ER250252	●	ER25025T	●	-		-	
1/8"	ER2503182	●	ER250318T	●	-		-	
3.0-2.5mm	ER250302	●	ER25030T	●	ERC250302	●	ERC250318T	●
3.5-2.5mm	ER250352	●	ER25035T	●	-		-	
4.0-3.0mm	ER250402	●	ER25040T	●	ERC250402	●	ERC25040T	●
3/16"	ER2504762	●	ER250476T	●	-		-	
4.5-3.5mm	ER250452	●	ER25045T	●	-		-	
5.0-4.0mm	ER250502	●	ER25050T	●	ERC250502	●	ERC25050T	●
6.0-5.0mm	ER250602	●	ER25060T	●	ERC250602	●	ERC25060T	●
1/4"	ER2506352	●	ER250635T	●	ERC2506352	●	ERC250635T	●
7.0-6.0mm	ER250702	●	ER25070T	●	ERC250702	●	ERC25070T	●
5/16"	ER2507942	●	ER250794T	●	ERC2507942	●	ERC250794T	●
8.0-7.0mm	ER250802	●	ER25080T	●	ERC250802	●	ERC25080T	●
9.0-8.0mm	ER250902	●	ER25090T	●	ERC250902	●	ERC25090T	●
3/8"	ER2509532	●	ER250953T	●	ERC2509532	●	ERC250953T	●
10.0-9.0mm	ER251002	●	ER25100T	●	ERC251002	●	ERC25100T	●
11.0-10.0mm	ER251102	●	ER25110T	●	ERC251102	●	ERC25110T	●
7/16"	ER2511112	●	ER251111T	●	ERC2511112	●	ERC251111T	○
12.0-11.0mm	ER251202	●	ER25120T	●	ERC251202	●	ERC25120T	●
1/2"	ER2512702	●	ER251270T	●	ERC2512702	●	ERC251270T	○
13.0-12.0mm	ER251302	●	ER25130T	●	ERC251302	●	ERC25130T	●
14.0-13.0mm	ER251402	●	ER25140T	●	ERC251402	●	ERC25140T	●
9/16"	ER2514292	●	ER251429T	●	ERC2514292	●	ERC251429T	○
15.0-14.0mm	ER251502	●	ER25150T	●	ERC251502	●	ERC25150T	●
5/8"	ER2515882	●	ER251588T	●	ERC2515882	●	ERC251588T	○
16.0-15.0mm	ER251602	●	ER25160T	●	ERC251602	●	ERC25160T	●

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ER25SET2	Class 2	15 Pcs Collet Set 2.0-16mm x 1.0mm	●
ER25SETT	TOPAC	15 Pcs Collet Set 2.0-16mm x 1.0mm	●
ER25SETIN2	Class 2	10 Pcs Collet Set 1/16"-5/8" x 1/16"	●

COOLANT COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ERC25SET2	Class 2	14pc Coolant Sealed Collet Set, 3-16mm	●
ERC25SETT	TOPAC	14pc Coolant Sealed Collet Set, 3-16mm	●

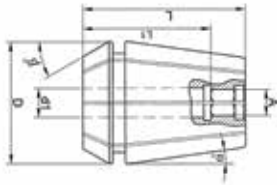


COLLETS

Collets, Spindle Tooling •

# TAPPING COLLETS-ER 25

In-Stock ● Two Week Delivery ○



## DIN TAPPING COLLETS

CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT25035	3.5mm	2.7mm	DIN371 M3 - DIN376 M5	●
ERT25040	4.0mm	3.15/3.2mm	ISO M4/M5 - JIS M3/M3.5 ER2	●
ERT25045	4.5mm	3.4mm	DIN 371 M4 - DIN 376 M6	●
ERT25050	5.0mm	4.0mm	ISO M5 - JIS M4 ER25	●
ERT25055	5.5mm	4.5mm	DIN374/DIN376 M7	●
ERT25060	6.0mm	4.9mm	DIN371 M4.5/M5/M6 - DIN374/376 M8	●
ERT25063	6.3mm	5.0mm	ISO M6/M8/1/4"/5/16"	●
ERT25070	7.0mm	5.5mm	DIN371 M7 - DIN374/376 M9/M10 - JIS M9/M10	●
ERT25080	8.0mm	6.2/6.3mm	DIN371 M8 - ISO M8/M10/5/16"/7/16"	●
ERT25090	9.0mm	7.0mm	DIN374/376 M12 - ISO M12/1/2"	●
ERT25100	10.0mm	8.0mm	DIN371 M10 - ISO M10/3/8"	●
ERT25110	11.0mm	9.0mm	DIN374/376 M14/9/16"	●
ERT25120	12.0mm	9.0mm	DIN374/376 M16/5/8"	●
ERT25125	12.5mm	10.0mm	ISO M16/ 5/8" JIS M16	●
ERT25140	14.0mm	11.0/11.2mm	DIN 374/376 M18 - JIS M18 - ISO M18/M20/3/4"	●
ERT25160	16.0mm	12.0mm	DIN374/376 M20	●

## ANSI TAPPING COLLETS

CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT25-141	0.141"	0.101"	0-#6 (M3)	●
ERT25-168	0.168"	0.131"	#8, 5/32 (M4)	●
ERT25-194	0.194"	0.152"	#10, 3/16 (M5)	●
ERT25-220	0.220"	0.165"	#12, 7/32	●
ERT25-255	0.255"	0.191"	#14, 1/4 (M6)	●
ERT25-318	0.318"	0.238"	5/16 (M7, M8)	●
ERT25-323	0.323"	0.242"	7/16	●
ERT25-367	0.367"	0.275"	1/2 (M12)	●
ERT25-381	0.381"	0.286"	3/8 (M10)	●
ERT25-429	0.429"	0.322"	9/16 (M14)	●
ERT25-437	0.437"	0.328"	1/8LS	●
ERT25-480	0.480"	0.360"	5/8 (M16)	●

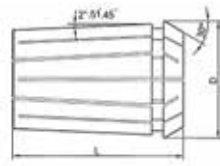
## Collet Sets

### TAPPING COLLET SETS

CODE	CONTENT	STOCK
ERT25SET	15pc DIN Tap Collet Set - 3.5-16.0mm	●

# COLLETS-ER 32

D	33mm
L	40mm
Clamping Range	1.0-25.0mm
Clamping Steps	1.0mm



In-Stock ● Two Week Delivery ○

COLLETS					COOLANT COLLETS			
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK	CLASS 2	STOCK	TOPAC	STOCK
1.0-0.5mm	ER320102	●	ER32010T	●	-		-	
1.5-1.0mm	ER320152	●	ER32015T	●	-		-	
2.0-1.5mm	ER320202	●	ER32020T	●	-		-	
2.5-2.0mm	ER320252	●	ER32025T	●	-		-	
1/8"	ER3203182	●	ER320318T	●	-		-	
3.0-2.5mm	ER320302	●	ER32030T	●	ERC320302	●	ERC320302T	●
3.5-2.5mm	ER320352	●	ER32035T	●	-		-	
4.0-3.0mm	ER320402	●	ER32040T	●	ERC320402	●	ERC32040T	●
3/16"	ER3204762	●	ER320476T	●	-		-	
4.5-3.5mm	ER320452	●	ER32045T	●	-		-	
5.0-4.0mm	ER320502	●	ER32050T	●	ERC320502	●	ERC32050T	●
6.0-5.0mm	ER320602	●	ER32060T	●	ERC320602	●	ERC32060T	●
1/4"	ER3206352	●	ER320635T	●	ERC3206352	●	ERC320635T	●
7.0-6.0mm	ER320702	●	ER32070T	●	ERC320702	●	ERC32070T	●
5/16"	ER3207942	●	ER320794T	●	ERC3207942	●	ERC320794T	●
8.0-7.0mm	ER320802	●	ER32080T	●	ERC320802	●	ERC32080T	●
9.0-8.0mm	ER320902	●	ER32090T	●	ERC320902	●	ERC32090T	●
3/8"	ER3209532	●	ER320953T	●	ERC3209532	●	ERC320953T	●
10.0-9.0mm	ER321002	●	ER32100T	●	ERC321002	●	ERC32100T	●
11.0-10.0mm	ER321102	●	ER32110T	●	ERC321102	●	ERC32110T	●
7/16"	ER3211112	●	ER321111T	●	ERC3211112	●	ERC321111T	●
12.0-11.0mm	ER321202	●	ER32120T	●	ERC321202	●	ERC32120T	●
1/2"	ER3212702	●	ER321270T	●	ERC3212702	●	ERC321270T	●
13.0-12.0mm	ER321302	●	ER32130T	●	ERC321302	●	ERC32130T	●
14.0-13.0mm	ER321402	●	ER32140T	●	ERC321402	●	ERC32140T	●
9/16"	ER3214292	●	ER321429T	●	ERC3214292	●	ERC321429T	●
15.0-14.0mm	ER321502	●	ER32150T	●	ERC321502	●	ERC32150T	●
5/8"	ER3215882	●	ER321588T	●	ERC3215882	●	ERC321588T	●
16.0-15.0mm	ER321602	●	ER32160T	●	ERC321602	●	ERC32160T	●
17.0-16.0mm	ER321702	●	ER32170T	●	ERC321702	●	ERC32170T	●
11/16"	ER3217462	●	ER321746T	○	-		-	
18.0-17.0mm	ER321802	●	ER32180T	●	ERC321802	●	ERC32180T	●
19.0-18.0mm	ER321902	●	ER32190T	○	ERC321902	●	ERC32190T	●
3/4"	ER3219052	●	ER321905T	●	ERC3219052	●	ERC321905T	●
20.0-19.0mm	ER322002	●	ER32200T	●	ERC322002	●	ERC32200T	●
25.0-24.0mm	ER322502	●	ER32250T	○	-		-	

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ER32SET2	Class 2	18 Pcs Collet Set 3.0-20mm x 1.0mm	●
ER32SETT	TOPAC	18 Pcs Collet Set 3.0-20mm x 1.0mm	●
ER32SETIN2	Class 2	10pc Collet Set 1/8"-3/4"x1/16"	●

COOLANT COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ERC32SET2	Class 2	18pc Coolant Sealed Collet Set, 3-20mm	●
ERC32SETT	TOPAC	18pc Coolant Sealed Collet Set, 3-20mm	●

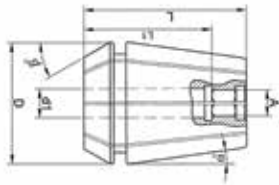


COLLETS

Collets, Spindle Tooling •

# TAPPING COLLETS-ER 32

In-Stock ● Two Week Delivery ○



DIN TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT32035	3.5mm	2.7mm	DIN371 M3 - DIN376 M5	●
ERT32040	4.0mm	3.15/3.2mm	ISO M4/M5 - JIS M3/M3.5	●
ERT32045	4.5mm	3.4mm		●
ERT32050	5.0mm	4.0mm		●
ERT32055	5.5mm	4.5mm		●
ERT32060	6.0mm	4.9mm		●
ERT32070	7.0mm	5.5mm		●
ERT32080	8.0mm	6.2mm		●
ERT32090	9.0mm	7.0mm		●
ERT32100	10.0mm	8.0mm		●
ERT32110	11.0mm	9.0mm		●
ERT32120	12.0mm	9.0mm		●
ERT32140	14.0mm	11.0mm		●
ERT32160	16.0mm	12.0mm		●
ERT32180	18.0mm	14.5mm		●
ERT32200	20.0mm	16.0mm		●

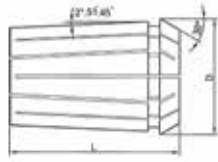
ANSI TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT32-141	0.141"	0.101"	0-#6 (M3)	●
ERT32-168	0.168"	0.131"	#8, <sup>5</sup> / <sub>32</sub> (M4)	●
ERT32-194	0.194"	0.152"	#10, <sup>3</sup> / <sub>16</sub> (M5)	●
ERT32-220	0.220"	0.165"	#12, <sup>7</sup> / <sub>32</sub>	●

## Collet Sets

TAPPING COLLET SETS		
CODE	CONTENT	STOCK
ERT32SET	19pc DIN Tap Collet Set - 3.5-12.0mm	●

# COLLETS-ER 40

D	41mm
L	46mm
Clamping Range	2.0-32.0mm
Clamping Steps	1.0mm



In-Stock ● Two Week Delivery ○

COLLETS					COOLANT COLLETS			
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK	CLASS 2	STOCK	TOPAC	STOCK
2.0-1.5mm	ER400202	●	ER40020T	○	-		-	
2.5-2.0mm	ER400252	●	ER40025T	○	-		-	
1/8"	ER4003182	●	ER400318T	○	-		-	
3.0-2.5mm	ER400302	●	ER40030T	○	ERC400302	●	ERC400318T	○
3.5-2.5mm	ER400352	●	ER40035T	○	-		-	
4.0-3.0mm	ER400402	●	ER40040T	○	ERC400402	●	ERC40040T	○
3/16"	ER4004762	●	ER400476T	○	-		-	
4.5-3.5mm	ER400452	●	ER40045T	○	-		-	
5.0-4.0mm	ER400502	●	ER40050T	○	ERC400502	●	ERC40050T	○
6.0-5.0mm	ER400602	●	ER40060T	○	ERC400602	●	ERC40060T	○
1/4"	ER4006352	●	ER400635T	○	ERC4006352	●	ERC400635T	○
7.0-6.0mm	ER400702	●	ER40070T	○	ERC400702	●	ERC40070T	○
5/16"	ER4007942	●	ER400794T	○	ERC4007942	●	ERC400794T	○
8.0-7.0mm	ER400802	●	ER40080T	○	ERC400802	●	ERC40080T	○
9.0-8.0mm	ER400902	●	ER40090T	○	ERC400902	●	ERC40090T	○
3/8"	ER4009532	●	ER400953T	○	ERC4009532	●	ERC400953T	○
10.0-9.0mm	ER401002	●	ER40100T	○	ERC401002	●	ERC40100T	○
13/32"	ER4010322	●	ER401032T	○	-		-	
11.0-10.0mm	ER401102	●	ER40110T	○	ERC401102	●	ERC40110T	○
7/16"	ER4011112	●	ER401111T	○	ERC4011112	●	ERC401111T	○
15/32"	ER4011912	●	ER401191T	○	-		-	
12.0-11.0mm	ER401202	●	ER40120T	○	ERC401202	●	ERC40120T	○
1/2"	ER4012702	●	ER401270T	○	ERC4012702	●	ERC401270T	○
13.0-12.0mm	ER401302	●	ER40130T	○	ERC401302	●	ERC40130T	○
17/32"	ER4013492	●	ER401349T	○	-		-	
14.0-13.0mm	ER401402	●	ER40140T	○	ERC401402	●	ERC40140T	○
9/16"	ER4014292	●	ER401429T	○	ERC4014292	●	ERC401429T	○
15.0-14.0mm	ER401502	●	ER40150T	○	ERC401502	●	ERC40150T	○
19/32"	ER4015082	●	ER401508T	○	-		-	
5/8"	ER4015882	●	ER401588T	○	ERC4015882	●	ERC401588T	○
16.0-15.0mm	ER401602	●	ER40160T	○	ERC401602	●	ERC40160T	○
21/32"	ER4016672	●	ER401667T	○	-		-	
17.0-16.0mm	ER401702	●	ER40170T	○	ERC401702	●	ERC40170T	○
11/16"	ER4017462	●	ER401746T	○	-		-	
18.0-17.0mm	ER401802	●	ER40180T	○	ERC401802	●	ERC40180T	○
23/32"	ER4018262	●	ER401826T	○	-		-	
19.0-18.0mm	ER401902	●	ER40190T	○	ERC401902	●	ERC40190T	○
3/4"	ER4019052	●	ER401905T	○	ERC4019052	●	ERC401905T	○
20.0-19.0mm	ER402002	●	ER40200T	○	ERC402002	●	ERC40200T	○
13/16"	ER4020642	●	ER402064T	○	-		-	
7/8"	ER4022232	●	ER402223T	○	-		-	
15/16"	ER4023812	●	ER402381T	○	-		-	
25.0-24.0mm	ER402502	●	ER40250T	○	ERC402502	●	ERC40250T	○
1"	ER4025402	●	ER402540T	○	ERC4025402	●	ERC402540T	○
26.0-25.0mm	ER402602	●	ER40260T	○	ERC402602	●	ERC40260T	○
30.0-29.0mm	ER403002	●	ER40300T	○	-		-	
32.0-31.0mm	ER403202	●	ER40320T	○	-		-	

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ER40SET2	Class 2	23 Pcs Collet Set 4.0-26mm x 1.0mm	●
ER40SETT	TOPAC	23 Pcs Collet Set 4.0-26mm x 1.0mm	○
ER40SETIN2	Class 2	15 Pcs Collet Set 1/8"-1" x 1/16"	●

COOLANT COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
ERC40SET2	Class 2	19pc Coolant Sealed Collet Set, 3-25mm	○
ERC40SETT	TOPAC	19pc Coolant Sealed Collet Set, 3-25mm	○

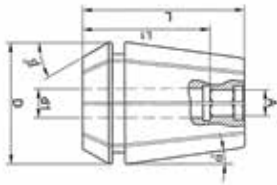


COLLETS

Collets, Spindle Tooling •

# TAPPING COLLETS-ER 40

In-Stock ● Two Week Delivery ○



DIN TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT40040	4.0mm	3.15/3.2mm	ISO M4/M5 - JIS M3/M3.5	○
ERT40045	4.5mm	3.4mm		○
ERT40050	5.0mm	.0mm		○
ERT40055	5.5mm	4.5mm		○
ERT40060	6.0mm	4.9mm		○
ERT40070	7.0mm	5.5mm		○
ERT40080	8.0mm	6.2mm		○
ERT40090	9.0mm	7.0mm		○
ERT40100	10.0mm	8.0mm		○
ERT40110	11.0mm	9.0mm		○
ERT40120	12.0mm	9.0mm		○
ERT40140	14.0mm	11.0mm		○
ERT40160	16.0mm	12.0mm		○
ERT40170	17.0mm	13.0mm		○
ERT40180	18.0mm	14.5mm		○
ERT40200	20.0mm	16.0mm		○
ERT40220	22.0mm	18.0mm		○
ERT40250	25.0mm	20.0mm		○

ANSI TAPPING COLLETS				
CODE	DI	SQUARE SIZE	TAP SPECS	STOCK
ERT40-141	0.255"	0.191"	1/4 (M6)	○
ERT40-168	0.318"	0.238"	5/16, (M7, M8)	○

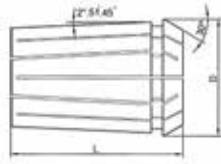
## Collet Sets

TAPPING COLLET SETS		
CODE	CONTENT	STOCK
ERT40SET	18pc DIN Tap Collet Set - 3.5-20.0mm	○

# COLLETS-ER 50

In-Stock ● Two Week Delivery ○

D	52mm
L	60mm
Clamping Range	12.0-34.0mm
Clamping Steps	2.0mm



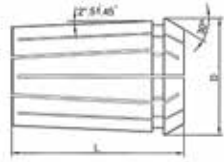
COLLETS				
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK
12.0-10.0mm	ER501202	○	ER50120T	○
14.0-12.0mm	ER501402	○	ER50140T	○
16.0-14.0mm	ER501602	○	ER50160T	○
18.0-16.0mm	ER501802	○	ER50180T	○
20.0-18.0mm	ER502002	○	ER50200T	○
22.0-20.0mm	ER502202	○	ER50220T	○
24.0-22.0mm	ER502402	○	ER50240T	○
25.0-23.0mm	ER502502	○	ER50250T	○
26.0-24.0mm	ER502602	○	ER50260T	○
28.0-26.0mm	ER502802	○	ER50280T	○
30.0-28.0mm	ER503002	○	ER50300T	○
32.0-30.0mm	ER503202	○	ER50320T	○
34.0-32.0mm	ER503402	○	ER50340T	○



# DIN6388B-25 COLLETS

In-Stock ● Two Week Delivery ○

D	35.05mm
L	52mm
$\alpha$	2° 51' 45"
$\beta$	30
Clamping Range	2.0-25.4mm
Clamping Steps	0.5mm



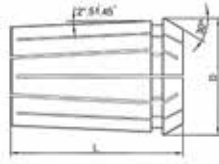
OZ COLLETS			OZ COLLETS	
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK
2.0-1.5mm	OZ250202	●	OZ25020T	○
2.5-2.0mm	OZ250252	○	OZ25025T	○
3.0-2.5mm	OZ250302	●	OZ25030T	○
3.5-3.0mm	OZ250352	○	OZ25035T	○
4.0-3.5mm	OZ250402	●	OZ25040T	○
4.5-4.0mm	OZ250452	○	OZ25045T	○
5.0-4.5mm	OZ250502	●	OZ25050T	○
5.5-4.5mm	OZ250552	○	OZ25055T	○
6.0-5.5mm	OZ250602	●	OZ25060	○
1/4"	OZ250632	●	OZ25063T	○
6.5-6.0mm	OZ250652	○	OZ25065T	○
7.0-6.5mm	OZ250702	●	OZ25070T	○
7.5-7.0mm	OZ250752	○	OZ25075T	○
8.0-7.5mm	OZ250802	●	OZ25080T	○
8.5-8.0mm	OZ250852	○	OZ25085T	○
9.0-8.0mm	OZ250902	●	OZ25090T	○
9.5-9.0mm	OZ250952	○	OZ25095T	○
3/8"	OZ250962	●	OZ25096T	○
10.0-9.5mm	OZ251002	●	OZ25100T	○
10.5-10.0mm	OZ251052	○	OZ25105T	○
11.0-10.5mm	OZ251102	●	OZ25110T	○
11.5-11.0mm	OZ251152	○	OZ25115T	○
12.0-11.5mm	OZ251202	●	OZ25120T	○
12.5-12.0mm	OZ251252	○	OZ25125T	○
1/2"	OZ251272	●	OZ25127T	○
13.0-12.5mm	OZ251302	●	OZ25130T	○
13.5-13.0mm	OZ251352	○	OZ25135T	○
14.0-13.5mm	OZ251402	●	OZ25140T	○
14.5-14.0mm	OZ251452	○	OZ25145T	○
15.0-14.5mm	OZ251502	●	OZ25150T	○
15.5-15.0mm	OZ251552	○	OZ25155T	○

Continued on next page ➞

# DIN6388B-25 COLLETS

In-Stock ● Two Week Delivery ○

D	35.05mm
L	52mm
$\alpha$	2° 51' 45"
$\beta$	30
Clamping Range	2.0-25.4mm
Clamping Steps	0.5mm



OZ COLLETS			OZ COLLETS	
CLAMPING	CLASS 2	STOCK	TOPAC	STOCK
5/8"	OZ251582	●	OZ25158T	○
16.0-15.5mm	OZ251602	●	OZ25160T	○
16.5-16.0mm	OZ251652	○	OZ25165T	○
17.0-16.5mm	OZ251702	●	OZ25170T	○
17.5-17.0mm	OZ251752	○	OZ25175T	○
18.0-17.5mm	OZ251802	●	OZ25180T	○
18.5-18.0mm	OZ251852	○	OZ25185T	○
19.0-18.5mm	OZ251902	●	OZ25190T	○
3/4"	OZ251912	●	OZ25191T	○
19.5-19.0mm	OZ251952	○	OZ25195T	○
20.0-19.5mm	OZ252002	●	OZ25200T	○
20.5-20.0mm	OZ252052	○	OZ25205T	○
21.0-20.5mm	OZ252102	●	OZ25210T	○
21.5-21.0mm	OZ252152	○	OZ25215T	○
22.0-21.5mm	OZ252202	●	OZ25220T	○
22.5-22.0mm	OZ252252	○	OZ25225T	○
23.0-22.5mm	OZ252302	●	OZ25230T	○
23.5-23.0mm	OZ252352	○	OZ25235T	○
24.0-23.5mm	OZ252402	●	OZ25240T	○
24.5-24.0mm	OZ252452	○	OZ25245T	○
25.0-24.0mm	OZ252502	●	OZ25250T	○
1.0"	OZ252542	●	OZ25254T	○

## Collet Sets

COLLET SETS			
CODE	CLASS TYPE	CONTENT	STOCK
OZ25SET2	Class 2	24 Pcs Collet Set 2.0-25.0mm x 1.0mm	●
OZ25SETT	TOPAC	24 Pcs Collet Set 2.0-25.0mm x 1.0mm	○



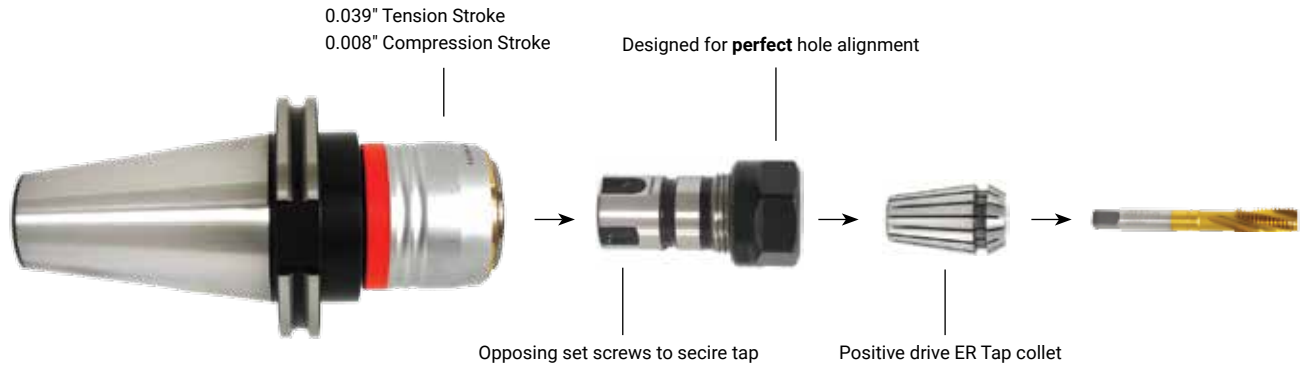
COLLETS



# SYNCROLIZE CHUCKS

In-Stock ● Two Week Delivery ○

## CAT, CAT Form B, BT, Straight, HSK Shank



### WHEN TO USE

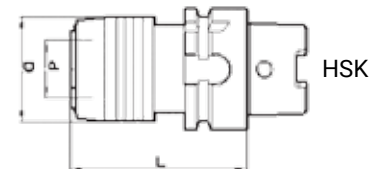
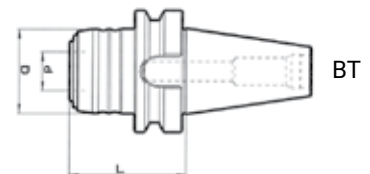
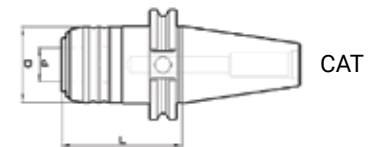
- On machines that are capable and have the programming for synchronous tapping
- When using high performance, coated and carbide taps

### WHY USE?

- The CNC machine synchronizes tap rotation and machine feed according to the pitch of the tap.
- When the tap is reversing, high stresses are produced on the 1st full thread of the tap. Rigid holders cannot compensate for these stresses.

### BENEFITS

- Higher quality threads
- No tapped holes out of tolerance
- Increased tool life
- Less time spent changing tools
- Less time spent inspecting



SIZE 1	SIZE 2	SIZE 3
#0 - 1/2"	3/8" - 3/4"	5/8" - 1 1/4"
M1.6 - M12	M10 - M18	M10 - M25
ER 16	ER 25	ER 40

# SYNCROLIZE CHUCKS



In-Stock ● Two Week Delivery ○

## Cat, CAT FORM B, BT, MT, Straight Shank, HSK, Polygonal, KM63 & KM63-Mazak

PART #	SHANK	D	L	TENSION	COMPRESSION	SIZE	COLLET SIZE	STOCK
<b>CAT SHANK</b>								
23400-40CAT	CAT40	1.732"	2.756"	0.039"	0.008"	1	ER16	●
23400-50CAT	CAT50	1.732"	2.756"	0.039"	0.008"	1	ER16	●
23600-40CAT	CAT40	2.362"	3.543"	0.039"	0.008"	2	ER25	●
23600-50CAT	CAT50	2.362"	3.543"	0.039"	0.008"	2	ER25	●
23800-50CAT	CAT50	3.425"	4.528"	0.039"	0.008"	3	ER40	●
<b>CAT SHANK FORM B</b>								
23400-40CAT-B	CAT40	1.732"	2.756"	0.039"	0.008"	1	ER16	●
23600-40CAT-B	CAT40	2.362"	3.543"	0.039"	0.008"	2	ER25	●
<b>BT SHANK</b>								
23400-30BT	BT30	1.693"	2.087"	0.039"	0.008"	1	ER16	●
23400-40BT	BT40	1.693"	2.402"	0.039"	0.008"	1	ER16	●
23400-50BT	BT50	1.693"	2.835"	0.039"	0.008"	1	ER16	●
23600-40BT	BT40	2.362"	3.228"	0.039"	0.008"	2	ER25	●
23600-50BT	BT50	2.362"	3.821"	0.039"	0.008"	2	ER25	●
23800-50BT-B	BT50	2.362"	4.881"	0.039"	0.008"	3	ER40	●
<b>STRAIGHT SHANK</b>								
23400-INC1	1"	1.693"	1.378"	0.039"	0.008"	1	ER16	●
23600-INC1	1"	2.323"	2.205"	0.039"	0.008"	2	ER25	●
<b>HSK SHANK</b>								
23400-H40A	HSK40	1.693"	2.717"	0.039"	0.008"	1	ER16	○
23400-H40E	HSK40	1.693"	2.717"	0.039"	0.008"	1	ER16	○
23400-H50A	HSK50	1.693"	2.756"	0.039"	0.008"	1	ER16	○
23400-H50E	HSK50	1.693"	2.756"	0.039"	0.008"	1	ER16	○
23400-H63A	HSK63	1.693"	2.520"	0.039"	0.008"	1	ER16	●
23400-H63E	HSK63	1.693"	2.520"	0.039"	0.008"	1	ER16	○
23400-H100A	HSK100	1.693"	2.756"	0.039"	0.008"	1	ER16	○
23600-H40A	HSK40	2.362"	3.543"	0.039"	0.008"	2	ER25	○
23600-H40E	HSK40	2.362"	3.543"	0.039"	0.008"	2	ER25	○
23600-H50A	HSK50	2.362"	3.819"	0.039"	0.008"	2	ER25	○
23600-H50E	HSK50	2.362"	3.819"	0.039"	0.008"	2	ER25	○
23600-H63A	HSK63	2.362"	3.819"	0.039"	0.008"	2	ER25	●
23600-H63E	HSK63	2.362"	3.819"	0.039"	0.008"	2	ER25	○
23600-H100A	HSK100	2.362"	3.583"	0.039"	0.008"	2	ER25	○
23800-H100A	HSK100A	3.425"	4.528"	0.039"	0.008"	3	ER40	○
<b>POLYGONAL SHANK</b>								
23400-C63	C63	2.480"	2.244"	0.039"	0.008"	1	ER16	○
23600-C63	C63	2.480"	3.031"	0.039"	0.008"	2	ER25	○
<b>KM63</b>								
23400-KM63	KM63	1.692"	2.283"	0.039"	0.008"	1	ER16	○
23600-KM63	KM63	2.362"	3.071"	0.039"	0.008"	2	ER25	○
<b>KM63-MAZAK</b>								
23400-KM63M	KM63M	1.692"	2.283"	0.039"	0.008"	1	ER16	○

COLLETS



# SYNCROLIZE ACCESSORIES

In-Stock ● Two Week Delivery ○

## Extension System

PART NUMBER	EXTENTION LENGTH	SIZE	STOCK
<b>ER TERMINAL</b>			
42147/ER16	1.969"	1	●
42247/ER25	3.110"	2	●
42347/ER40	3.661"	3	○
<b>EXTENSION</b>			
42150/25	0.984"	1	●
42150/50	1.969"	1	●
42250/50	1.969"	2	●
42250/100	3.937"	2	●
42350/100	3.937"	3	○
<b>TAP ADAPTER BODY</b>			
23411-MOD	0.197"	1	●
23611-MOD	0.276"	2	●
23811-MOD	0.078"	3	○



## ER Collets for Positive Drive Tapping

			SIZE 1-ER16		SIZE 2-ER25		SIZE 3-ER40	
INCH	METRIC	SQ.	PART #	STOCK	PART #	STOCK	PART #	STOCK
#0-6	M1.6-M3.5	0.110"	9011.16.141	●				
#8	M4	0.131"	9011.16.168	●				
#10	M5	0.152"	9011.16.194	●				
#12	-	0.165"	9011.16.220	●				
1/4"	M6	0.191"	9011.16.255	●				
5/16"	M7, M8	0.238"	9011.16.318	●				
3/8"	M10	0.286"	9011.16.381	●	9011.25.381	●		
7/16"	M11	0.242"	9011.16.323	●	9011.25.323	●		
1/2"	M12	0.275"	9011.16.367	●	9011.25.367	●		
9/16"	M14	0.275"			9011.25.429	●		
5/8"	M16	0.328"			9011.25.480	●	9010.40.480	○
11/16"	M18	0.360"					9010.40.542	○
3/4"	-	0.442"					9010.40.590	○
13/16"	M20	0.489"					9010.40.652	○
7/8"	M22	0.523"					9010.40.697	○
15/16"	M24	0.570"					9010.40.760	○
1"	M25	0.600"					9010.40.800	○
1/8" NPT	-	0.322"					9010.40.437	○
1/4" NPT	-	0.421"					9010.40.562	○
1/2" NPT	-	0.515"					9010.40.687	○
3/8" NPT	-	0.531"					9010.40.700	○

QUICK CHANGE COLLETS			
PART NUMBER	COLLET SIZE	L	NOSE
23410-ER16	ER16	0.945"	1.102"
23610-ER25	ER25	1.102"	1.654"
23810-ER40	ER40	1.260"	2.480"

REPLACEMENT NUTS			
PART NUMBER	COLLET SIZE	L	NOSE
23410-ER16	ER16	0.945"	1.102"
23610-ER25	ER25	1.102"	1.654"
23810-ER40	ER40	1.260"	2.480"

COLLETS



# BILZ STYLE TAPPING CHUCKS

In-Stock ● Two Week Delivery ○

## Cat, BT, MT & Straight Shank

PART #	SHANK	D	L	TENSION	COMPRESSION	SIZE	STOCK
<b>CAT SHANK</b>							
32400/40CAT	CAT40	1.496"	3.012"	0.35"	0.35"	1	●
32400/50CAT	CAT50	1.496"	3.012"	0.35"	0.35"	1	●
32600/40CAT	CAT40	2.165"	3.940"	0.59"	0.59"	2	●
32600/50CAT	CAT50	2.165"	3.898"	0.59"	0.59"	2	●
32800/40CAT	CAT40	3.110"	5.472"	0.94"	0.94"	3	●
32800/50CAT	CAT50	3.110"	5.276"	0.94"	0.94"	3	●
32900/40CAT	CAT40	3.858"	6.063"	1.02"	1.02"	4	○
32900/50CAT	CAT50	3.858"	5.809"	1.02"	1.02"	4	○
<b>BT SHANK</b>							
32400/30BT	BT30	1.496"	2.480"	0.35"	0.35"	1	●
32400/40BT	BT40	1.496"	2.677"	0.35"	0.35"	1	●
32400/50BT	BT50	1.496"	3.150"	0.35"	0.35"	1	●
32600/30BT	BT30	2.165"	3.780"	0.59"	0.59"	2	●
32600/40BT	BT40	2.165"	3.661"	0.59"	0.59"	2	●
32600/50BT	BT50	2.165"	4.016"	0.59"	0.59"	2	●
32800/40BT	BT40	3.110"	5.433"	0.94"	0.94"	3	○
32800/50BT	BT50	3.110"	5.236"	0.94"	0.94"	3	○
32900/40BT	BT40	3.858"	6.181"	1.02"	1.02"	4	○
32900/50BT	BT50	3.858"	5.787"	1.02"	1.02"	4	○
<b>MORSE TAPER SHANK</b>							
32400/2	MT2	1.496"	1.811"	0.35"	0.35"	1	●
32400/3	MT3	1.496"	1.811"	0.35"	0.35"	1	●
32600/3	MT3	2.165"	2.717"	0.59"	0.59"	2	●
32600/4	MT4	2.165"	2.756"	0.59"	0.59"	2	●
32800/4	MT4	3.110"	4.252"	0.94"	0.94"	3	○
32800/5	MT5	3.110"	4.055"	0.94"	0.94"	3	○
32900/5	MT5	3.858"	4.567"	1.02"	1.02"	4	○
<b>STRAIGHT SHANK</b>							
32400/INC1	1"	1.496"	1.614"	0.35"	0.35"	1	●
32600/INC1	1"	2.165"	2.520"	0.35"	0.35"	2	●
32600/INC1-1/2	1 1/2"	2.165"	2.520"	0.59"	0.59"	2	●
<b>STRAIGHT SHANK W/ COOLANT THRU</b>							
36400/INC1	1"	1.535"	2.441"	0.35"	0.35"	1	●
36600/INC1	1"	2.087"	3.858"	0.59"	0.59"	2	●



CAT



BT



Morse Taper



Straight

COLLETS

# TENSION & COMPRESSION



In-Stock ● Two Week Delivery ○

## HSK

PART #	SHANK	D	L	TENSION	COMPRESSION	SIZE	STOCK
<b>HSK SHANK</b>							
34400/H50A	HSK50A	1.614"	2.835"	0.29"	0.29"	1	●
34400/H63A	HSK63A	1.614"	2.835"	0.29"	0.29"	1	●
34400/H100A	HSK100A	1.614"	3.150"	0.29"	0.29"	1	●
34400/H50E	HSK50E	1.614"	2.835"	0.29"	0.29"	1	●
34400/H63E	HSK63E	1.614"	2.835"	0.29"	0.29"	1	●
34600/H50A	HSK50A	2.362"	4.331"	0.39"	0.39"	2	●
34600/H63A	HSK63A	2.362"	4.331"	0.39"	0.39"	2	●
34600/H100A	HSK100A	2.362"	3.937"	0.39"	0.39"	2	●
34600/H50E	HSK50E	2.362"	4.331"	0.39"	0.39"	2	●
34600/H63E	HSK63E	2.362"	4.331"	0.39"	0.39"	2	●
34800/H63A	HSK63A	3.386"	5.551"	0.69"	0.69"	3	●
34800/H100A	HSK100A	3.386"	5.669"	0.69"	0.69"	3	●
<b>HSK SHANK "S SERIES" TENSION STROKE ONLY</b>							
34400/H50AS	HSK50A	1.614"	2.657"	0.47"	N/A	1	●
34400/H63AS	HSK63A	1.614"	2.657"	0.47"	N/A	1	●
34400/H100AS	HSK100A	1.614"	2.972"	0.47"	N/A	1	●
34400/H50ES	HSK50E	1.614"	2.657"	0.47"	N/A	1	●
34400/H63ES	HSK63E	1.614"	2.657"	0.47"	N/A	1	●
34600/H50AS	HSK50A	2.362"	4.094"	0.63"	N/A	2	●
34600/H63AS	HSK63A	2.362"	4.094"	0.63"	N/A	2	●
34600/H100AS	HSK100A	2.362"	3.701"	0.63"	N/A	2	●
34600/H50ES	HSK50E	2.362"	4.094"	0.63"	N/A	2	●
34600/H63ES	HSK63E	2.362"	4.094"	0.63"	N/A	2	●
34800/H63AS	HSK63A	3.386"	5.118"	1.18"	N/A	3	●
34800/H100AS	HSK100A	3.386"	5.217"	1.18"	N/A	3	●



HSK

COLLETS

## Tapping Size Ranges

SIZE	TAP CAPACITY	COMPRESSION		TAP ADAPTER	
		TENSION	COMPRESSION	RIGID	TORQUE CONTROL
1	#0-6-9/16"	0.35"	0.35"	19/11	19/1
2	3/8"-7/8"	0.59"	0.59"	31/12	31/2
3	1/2"-1 3/8"	0.94"	0.94"	48/13	48/3
4	1 7/16"-2"	1.02"	1.02"	60/14	60/4

# RIGID CHUCKS



In-Stock ● Two Week Delivery ○

## Cat, BT, MT, Straight Shank & HSK

PART #	SHANK	D	L	SIZE	STOCK
<b>CAT SHANK</b>					
21480/40CAT	CAT40	1.299"	2.953"	1	●
21480/50CAT	CAT50	1.299"	2.953"	1	●
21680/40CAT	CAT40	1.969"	3.386"	2	●
21680/50CAT	CAT50	1.969"	3.386"	2	●
21880/40CAT	CAT40	2.835"	4.803"	3	○
21880/50CAT	CAT50	2.835"	4.803"	3	○
<b>BT SHANK</b>					
21480/30BT	BT30	1.299"	2.441"	1	●
21480/40BT	BT40	1.299"	2.638"	1	●
21480/50BT	BT50	1.299"	3.071"	1	●
21680/30BT	BT30	1.969"	3.346"	2	●
21680/40BT	BT40	1.969"	3.543"	2	●
21680/50BT	BT50	1.969"	3.976"	2	●
21880/40BT	BT40	2.835"	4.606"	3	○
21880/50BT	BT50	2.835"	4.921"	3	○
<b>HSK SHANK</b>					
21480/H40A	HSK40A	1.299"	2.244"	1	○
21480/H50A	HSK50A	1.299"	2.480"	1	○
21480/H63A	HSK63A	1.299"	2.480"	1	●
21480/H80A	HSK80A	1.299"	2.480"	1	○
21480/H100A	HSK100A	1.299"	2.717"	1	○
21680/H40A	HSK40A	1.969"	3.583"	2	○
21680/H50A	HSK50A	1.969"	3.858"	2	○
21680/H63A	HSK63A	1.969"	3.504"	2	●
21680/H80A	HSK80A	1.969"	3.504"	2	○
21680/H100A	HSK100A	1.969"	3.622"	2	○
21880/H63A	HSK63A	2.835"	5.079"	3	○
21880/H80A	HSK80A	2.835"	5.079"	3	○
21880/H100A	HSK100A	2.835"	4.567"	3	○
<b>MORSE TAPER SHANK</b>					
21480/2	MT2	1.299"	1.772"	1	○
21480/3	MT3	1.299"	1.772"	1	●
21680/2	MT2	1.969"	2.402"	2	○
21680/3	MT3	1.969"	2.402"	2	●
21880/4	MT4	2.835"	3.622"	3	○
<b>STRAIGHT SHANK</b>					
21480/INC1	1"	1.299"	1.575"	1	●
21680/INC1	1"	1.969"	2.480"	2	●
21880/INC1-1/2	1 1/2"	2.835"	3.425"	3	●



CAT



BT



HSK



Straight

COLLETS





In-Stock ● Two Week Delivery ○



## Cat, BT, NMTB & Straight Shank

PART NUMBER	SHANK	D	L	TAP CAPACITY	TENSION	COMPRESSION	SIZE	STOCK
<b>SYNCROLIZE STRAIGHT SHANK</b>								
23400/INC1	1"	1.693"	1.378"	#0-9/16"	0.039"	0.008"	1	●
23600/INC1	1"	2.323"	2.205"	5/16-7/8"	0.039"	0.008"	2	●
<b>RIGID STRAIGHT SHANK TAP HOLDER WITH COOLANT THRU</b>								
21480/INC1	1"	1.299"	1.575"	#0-9/16"	0.039"	0.008"	1	●
21680/INC1	1"	1.969"	2.480"	5/16-7/8"	0.039"	0.008"	2	●
21880/INC1-1/2	1 1/2"	1.969"	2.480"	1/2-1 3/8"	0.039"	0.008"	3	●



Syncrolize



Rigid

PART NUMBER	SHANK	D	L	TAP CAPACITY	TENSION	COMPRESSION	SIZE	STOCK
<b>TENSION &amp; COMPRESSION STRAIGHT SHANK</b>								
32400/INC1	1"	1.496"	0.748"	#0-9/16"	0.35"	0.35"	1	●
32600/INC1	1"	2.165"	1.220"	5/16-7/8"	0.59"	0.59"	2	●
32600/INC1-1/2	1 1/2"	2.165"	1.220"	#0-9/16"	0.59"	0.59"	2	●
<b>TENSION &amp; COMPRESSION STRAIGHT SHANK WITH COOLANT THRU</b>								
36400/INC1	1"	1.535"	0.748"	5/16-7/8"	0.30"	0.30"	1	●
36600/INC1	1"	2.087"	1.220"	1/2-1 3/8"	0.59"	0.59"	2	●



Tension & Compression

PART NUMBER	SHANK	BORE	D	L	STOCK
<b>CAT MODULAR SHANKS</b>					
1806.254.40ACAT	CAT40	1"	1.772"	1.378"	●
1806.254.50ACAT	CAT50	1"	2.756"	1.378"	●
1806.381.50ACAT	CAT50	1 1/2"	2.756"	1.378"	●
1806.25.40CAT	CAT40	25mm	1.772"	1.378"	●
<b>BT MODULAR SHANKS</b>					
1806.25.40BT	BT40	1"	N/A	1.062"	●
1806.25.50BT	BT50	1"	N/A	1.535"	●
1806.40.50BT	BT50	1 1/2"	2.742"	1.535"	●
<b>NMTB MODULAR SHANKS</b>					
1806.254.40INC1	NMTB40	1"	1.742"	1.062"	●



CAT



BT



NMTB



# RIGID TAP ADAPTERS

In-Stock ● Two Week Delivery ○

Rigid tap adapters are best suited for through holes and in applications where tap breakage is not a concern.



TAP SIZE			SIZE 1		SIZE 2		SIZE 3		SIZE 4	
ANSI	ISO	STI	PART #	STOCK	PART #	STOCK	PART #	STOCK	PART #	STOCK
#0-6	M1.6-M3.5	#1- 4	19/11 4036	●						
#8	M4	#5	19/11 4041	●						
#10	M5	#6	19/11 4048	●						
#12	-	#8	19/11 4054	●						
1/4"	M6	#10	19/11 4063	●						
5/16"	M8	1/4"	19/11 4079	●	31/12 4079	●				
3/8"	M10	5/16"	19/11 4095	●	31/12 4095	●				
7/16"	M11	-	19/11 4111	●	31/12 4111	●				
1/2"	M12	3/8"	19/11 4127	●	31/12 4127	●	48/13 4127	●		
9/16"	M14	7/16"	19/11 4142	●	31/12 4142	●	48/13 4142	●		
5/8"	M16	1/2"			31/12 4158	●	48/13 4158	●		
11/16"	M18	9/16"			31/12 4174	●	48/13 4174	●		
3/4"	-	5/8"			31/12 4190C	●	48/13 4190	●		
13/16"	M20	-			31/12 4206C	●	48/13 4206	●		
7/8"	M22	3/4"			31/12 4222C	●	48/13 4222	●		
15/16"	M24	M20					48/13 4238	●		
1"	M25	7/8"					48/13 4254	●		
1 1/16"	M27	M24					48/13 4286	●		
1 1/8"	M27	M24					48/13 4286	●		
1 3/16"	M30	1"					48/13 4317	●		
1 1/4"	M30	1"					48/13 4317	●		
1 5/16"	M33	1 1/8"					48/13 4349	●		
1 3/8"	M33	1 1/8"					48/13 4349	●		
1 1/2"	-	-							60/14 4381C	○
1 7/16"	M36	1 1/4"							60/14 4381C	○
1 5/8"	M39	1 3/8"							60/14 4412C	○
1 3/4"	M42	1 1/2"							60/14 4444C	○
1 7/8"	-	-							60/14 4476C	○
1/8" NPT	-	-	19/11 4097C	●						
1/4" NPT	-	-			31/12 4131C	●				
3/8" NPT	-	-			31/12 4166C	●				
1/2" NPT	-	-			31/12 4209C	●				
3/8" NPT	-	-					48/13 4166C	●		
1/2" NPT	-	-					48/13 4209C	●		
3/4" NPT	-	-					48/13 4264C	●		
1" NPT	-	-					48/13 4332C	●		

COLLETS



# RIGID TAP ADAPTERS - DIN

In-Stock ● Two Week Delivery ○

Rigid tap adapters are best suited for through holes and in applications where tap breakage is not a concern.



TAP SIZE			DIN	SIZE 1		SIZE 2		SIZE 3		SIZE 4	
METRIC	F	□		PART #	STOCK	PART #	STOCK	PART #	STOCK	PART #	STOCK
M2	2.8	2.1	371	19/11 2821	●						
M2.5	2.8	2.1	371								
M3	3.5	2.7	371	19/11 3527	●						
M3.5	4	3	371	19/11 43	●						
M4	4.5	3.4	371	19/11 4534	●						
M4.5	6	4.9	371	19/11 649	●	31/12 649	●				
M5	6	4.9	371								
M6	4.5	3.4	376								
M6	6	4.9	371								
M7	5.5	4.3	376								
M7	7	5.5	371	19/11 755	●	31/12 755	●				
M8	6	4.9	376								
M8	8	6.2	371	19/11 862	●	31/12 862	●				
M9	9	7	371	19/11 97	●	31/12 97	●				
M10	7	5.5	376								
M10	10	8	371	19/11 108	●	31/12 108	●				
M11	8	6.2	376								
M12	9	7	376								
M14	11	9	376	19/11 119	●	31/12 119	●	48/13 119	○		
M16	12	9	376			31/12 129	●	48/13 129	○		
M18	14	11	376			31/12 1411	●	48/13 1411	○		
M20	16	12	376			31/12 1612	●	48/13 1612	○		
M22	18	14.5	376			31/12 18145	●	48/13 18145	○	60/14 18145	○
M24	18	14.5	376								
M27	20	16	376					48/13 2016	○	60/14 2016	○
M30	22	18	376					48/13 2218	○	60/14 2218	○
M33	25	20	376					48/13 2520	○	60/14 2520	○
M36	28	22	376					48/13 2822	○	60/14 2822	○
M39	32	24	376							60/14 3224	○
M42	32	24	376							60/14 3629	○
M45	36	29	376								
M48	36	29	376								

COLLETS

# TORQUE CONTROL TAP ADAPTERS



In-Stock ● Two Week Delivery ○

Torque control adapters are the best solution for protecting your taps and workpieces from tap breakage. The primary application for torque control adapters is blind hole tapping and where chip evacuation is a concern.



TAP SIZE			SIZE 1		SIZE 2		SIZE 3	
ANSI	ISO	STI	PART #	STOCK	PART #	STOCK	PART #	STOCK
#0-6	M1.6-M3.5	#1-4	19/1 4036	●				
#8	M4	#5	19/1 4041	●				
#10	M5	#6	19/1 4048	●				
#12	-	#8	19/1 4054	●				
1/4"	M6	#10	19/1 4063	●				
5/16"	M8	1/4"	19/1 4079	●	31/2 4079	●		
3/8"	M10	5/16"	19/1 4095	●	31/2 4095	●		
7/16"	M11	-	19/1 4111	●	31/2 4111	●		
1/2"	M12	3/8"	19/1 4127	●	31/2 4127	●	48/3 4127	●
9/16"	M14	7/16"	19/1 4142	●	31/2 4142	●	48/3 4142	●
5/8"	M16	1/2"			31/2 4158	●	48/3 4158	●
11/16"	M18	9/16"			31/2 4174	●	48/3 4174	●
3/4"	-	5/8"			31/2 4190C	●	48/3 4190	●
13/16"	M20	-			31/2 4206C	●	48/3 4206	●
7/8"	M22	3/4"			31/2 4222C	●	48/3 4222	●
15/16"	M24	M20					48/3 4238	●
1"	M25	7/8"					48/3 4254	●
1 1/16"	M27	M24					48/3 4286	●
1 1/8"	M27	M24					48/3 4286	●
1 3/16"	M30	1"					48/3 4317	●
1 1/4"	M30	1"					48/3 4317	●
1 5/16"	M33	1 1/8"					48/3 4349	●
1 3/8"	M33	1 1/8"					48/3 4349	●
1/8" NPT	-	-	19/1 4097C	●				
1/4" NPT	-	-			31/2 4131C	●		
3/8" NPT	-	-			31/2 4166C	●		
1/2" NPT	-	-			31/2 4209C	●		
3/8" NPT	-	-					48/3 4166C	●
1/2" NPT	-	-					48/3 4209C	●
3/4" NPT	-	-					48/3 4264C	●
1" NPT	-	-					48/3 4332C	●

# TORQUE CONTROL TAP ADAPTERS - DIN



In-Stock ● Two Week Delivery ○

Torque control adapters are the best solution for protecting your taps and workpieces from tap breakage. The primary application for torque control adapters is blind hole tapping and where chip evacuation is a concern.



TAP SIZE			DIN	SIZE 1		SIZE 2		SIZE 3		SIZE 4	
METRIC	F	□		PART #	STOCK	PART #	STOCK	PART #	STOCK	PART #	STOCK
M2	2.8	2.1	371	19/1 228	●						
M2.5	2.8	2.1	371	19/1 0022	●						
M3	3.5	2.7	371	19/1 335	●						
M3.5	4	3	371	19/1 354	●						
M4	4.5	3.4	371	19/1 445	●						
M4.5	6	4.9	371	19/1 456	●						
M5	6	4.9	371	19/1 56	●						
M6	4.5	3.4	376	19/1 645	●						
M6	6	4.9	371	19/1 6649	●	31/2 6649	●				
M7	5.5	4.3	376	19/1 755	●	31/2 7649	●				
M7	7	5.5	371	19/1 77	●	31/2 7755	●				
M8	6	4.9	376	19/1 86	●	31/2 8649	●				
M8	8	6.2	371	19/1 88	●	31/2 88	●				
M9	9	7	371	19/1 997	●	31/2 997	●				
M10	7	5.5	376	19/1 107	●	31/2 107	●				
M10	10	8	371	19/1 1010	●	31/2 1010	●				
M11	8	6.2	376	19/1 11862	●	31/2 11862	●				
M12	9	7	376	19/1 129*	●	31/2 129	●	48/3 129	○		
M14	11	9	376			31/2 1411	●	48/3 1411	○		
M16	12	9	376			31/2 1612	●	48/3 1612	○		
M18	14	11	376			31/2 181411	●	48/3 181411	○		
M20	16	12	376			31/2 2016	●	48/3 2016	○	60/4 2016	○
M22	18	14.5	376					48/3 2218	○	60/4 2218	○
M24	18	14.5	376					48/3 2418145	○	60/4 2418	○
M27	20	16	376					48/3 272016	○	60/4 2720	○
M30	22	18	376					48/3 3022*	○	60/4 3022	○
M33	25	20	376					48/3 3325*	○	60/4 3325	○
M36	28	22	376							60/4 3628	○
M39	32	24	376							60/4 3932	○
M42	32	24	376							60/4 4232	○
M45	36	29	376							60/4 4536	○
M48	36	29	376							60/4 4836	○

COLLETS

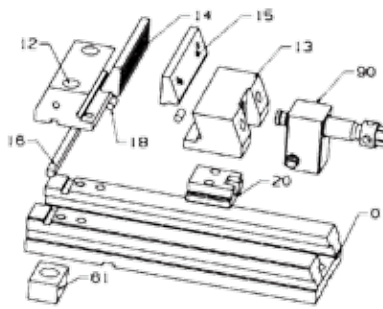
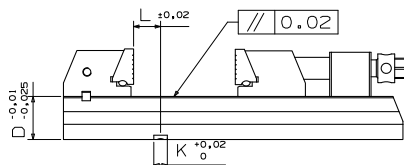
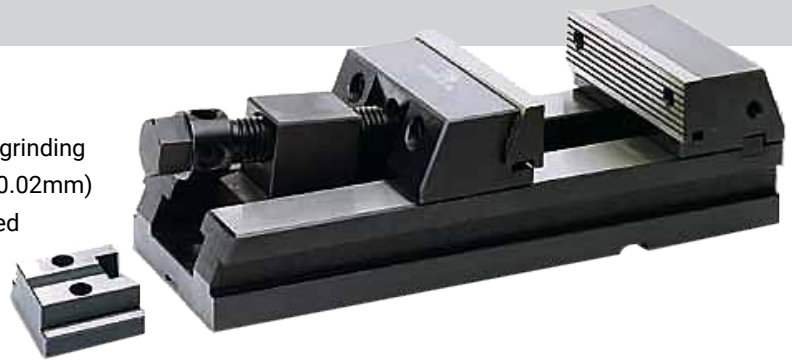
# ACCESSORIES



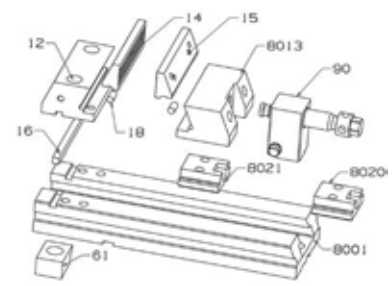
## PERFECT

### Series 30 and 30G

- High quality vices made for all jobs, including grinding
- Made for very tight manufacturing tolerance (0.02mm)
- Available in guided and non-guided. Non-guided features a compensating jaw which is excellent for squaring up irregular shaped workpieces.



Series 30

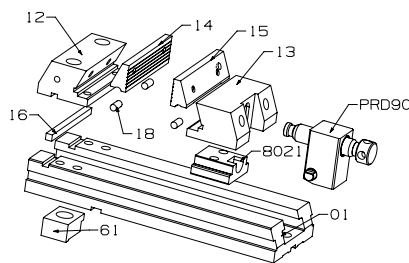
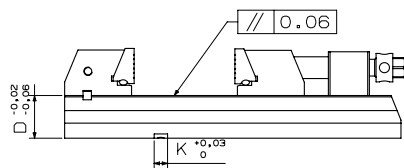
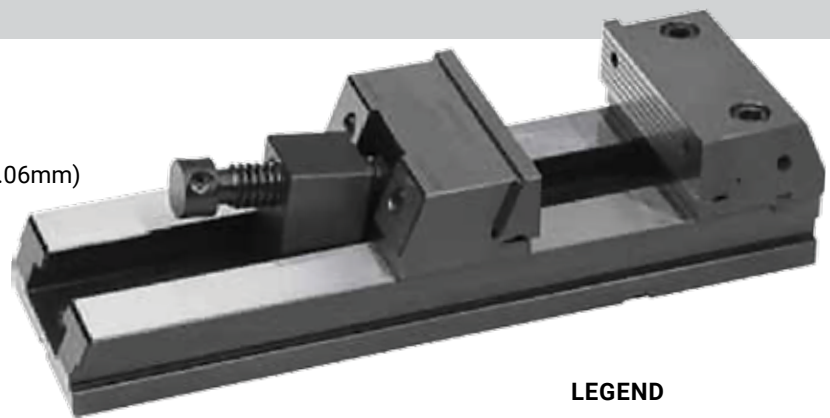


Series 30G

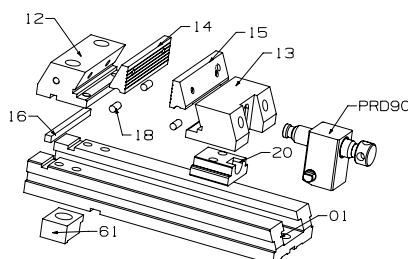
## PRODUCTION

### Series PRD

- High quality milling vices
- Made for tight manufacturing tolerance (0.06mm)
- More economical than "Perfect" line

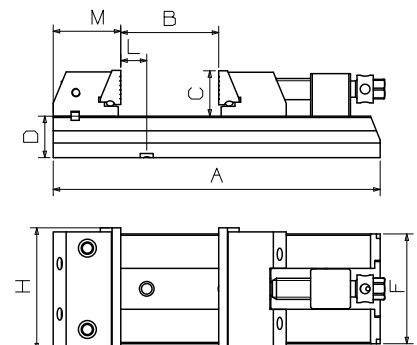


Series 30



Series 30G

### LEGEND



In-Stock ● Two Week Delivery ○

## Series 30

- Non-guided
- Made for very tight manufacturing tolerance
- Hardened steel HRc 60

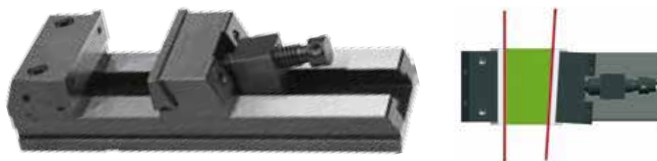


MADE IN SPAIN

PART NUMBER	A	TB	C	D	F	H	L	M	TOL.	CLAMP #	WEIGHT	SWIVEL BASE	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg		
30/100	250	109	33.5	37	90	100	18.6	51.5	12	12561	7.5	B/100	○
30/100L	296	150	33.5	37	90	100	18.6	51.5	12	12561	8	B/100	○
30/125	300	130	41	42	110	125	22.0	66	12	12561	13	B/125	○
30/125L	346	175	41	42	110	125	22.0	66	12	12561	14	B/125	○
30/125S	371	200	41	42	110	125	22.0	66	12	12561	14.5	B/125	○
30/125R	345	140	53	49	115	125	3.0	82.5	16	15061	17.9	-	○
30/125RL	395	189	53	49	115	125	3.0	82.5	16	15061	19.5	-	○
30/150	402	200	56	51	135	150	32.2	83	16	15061	26	B/150	●
30/150L	452	250	56	51	135	150	32.2	83	16	15061	28	B/150	●
30/150S	502	300	56	51	135	150	32.2	83	16	15061	30	B/150	○
30/150X	527	325	56	51	135	150	32.2	83	16	15061	31.5	B/150	○
30/175	432	225	58	56	135	175	35.0	85	16	15061	34	B/150	○
30/175L	482	275	58	56	135	175	35.0	85	16	15061	36.5	B/150	○
30/175S	556	350	58	56	135	175	35.0	86	16	15061	40.0	B/150	○
30/175X	610	400	58	56	135	175	35.0	86	16	15061	42.5	B/150	○
30/200	470	250	66	61	160	200	52.2	93	16	20061	44	B/200	○
30/200L	520	300	66	61	160	200	52.2	93	16	20061	46.5	B/200	○
30/200S	570	350	66	61	160	200	52.2	92.5	16	20061	49	B/200	○
30/200X	595	375	66	61	160	200	52.2	92.5	16	20061	50.5	B/200	○
30/200XL	675	455	66	61	160	200	52.2	92.5	16	20061	53.0	B/200	○
30/250	530	300	74	66	200	250	47.5	97.5	20	20061	70	-	○
30/250L	580	350	74	66	200	250	47.5	97.5	20	20061	75	-	○
30/250S	680	450	74	66	200	250	47.5	97.5	20	20061	85	-	○
30/250X	755	525	74	66	200	250	47.5	97.5	20	20061	92	-	○
30/300	670	390	83	78	245	300	38.5	121.5	20	3030061	130	-	○
30/300L	770	490	83	78	245	300	38.5	121.5	20	3030061	145	-	○
30/300S	870	590	83	78	245	300	38.5	121.5	20	3030061	160	-	○

## Series PRD

- Non-guided
- Hardened steel HRc 60



MADE IN SPAIN

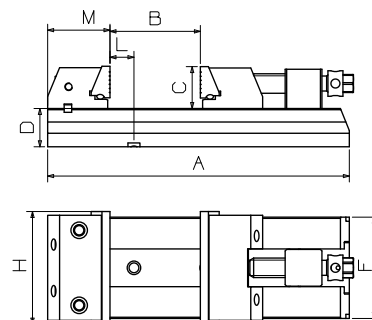
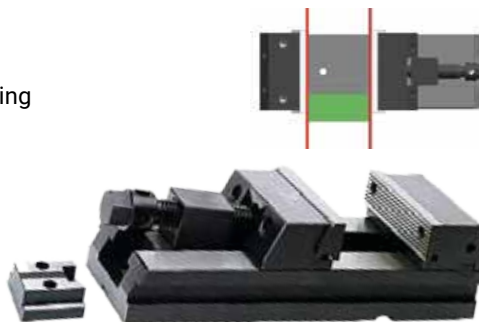
PART NUMBER	A	B	C	D	F	H	L	M	TOL.	CLAMP #	WEIGHT	SWIVEL BASE	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg		
PRD/125	300	130	41	42	110	125	88	66	12	12561	13	B/125	○
PRD/125L	346	175	41	42	110	125	88	66	12	12561	14	B/125	○
PRD/150	402	200	56	51	135	150	115	83	16	15061	26	B/150	○
PRD/150L	452	250	56	51	135	150	115	83	16	15061	28	B/150	○
PRD/150S	502	300	56	51	135	150	115	83	16	15061	31	B/150	○
PRD/150X	527	325	56	51	135	150	115	83	16	15061	31.5	B/150	○
PRD/200	470	250	66	61	160	200	145	92.5	16	20061	44	B/200	○
PRD/200L	520	300	66	61	160	200	145	92.5	16	20061	46.5	B/200	○
PRD/200S	570	350	66	61	160	200	145	92.5	16	20061	49	B/200	○
PRD/200X	595	375	66	61	160	200	145	92.5	16	20061	50.5	B/200	○
PRD/200XL	675	455	66	61	160	200	145	92.5	16	20061	53	B/200	○



In-Stock ● Two Week Delivery ○

## Series 30G

- Guided
- Made for very tight manufacturing tolerance.
- Hardened steel HRc 60
- Interchangeable locks

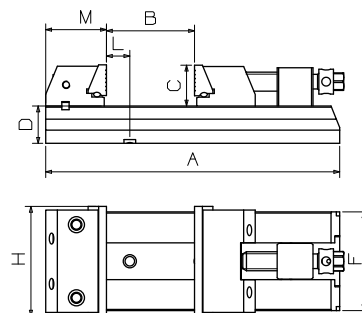
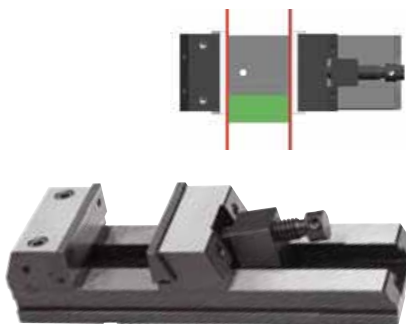


MADE IN SPAIN

PART NUMBER	A	B	C	D	F	H	L	M	TOL.	CLAMP #	WEIGHT	SWIVEL BASE	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg		
30/100G	250	109	33.5	37	90	100	18.6	51.5	12	12561	7.5	B/100	○
30/100GL	296	150	33.5	37	90	100	18.6	51.5	12	12561	8	B/100	○
30/125G	300	130	41	42	110	125	22.0	66	12	12561	13	B/125	○
30/125GL	346	175	41	42	110	125	22.0	66	12	12561	14	B/125	○
30/150G	402	200	56	51	135	150	32.2	83	16	15061	26	B/150	○
30/150GL	452	250	56	51	135	150	32.2	83	16	15061	28	B/150	○
30/150GS	502	300	56	51	135	150	32.2	83	16	15061	30	B/150	○
30/175G	432	225	58	56	135	175	35.0	85	16	15061	34	B/150	○
30/175GL	482	275	58	56	135	175	35.0	85	16	15061	36.5	B/150	○
30/175GS	556	350	58	56	135	175	35.0	86	16	15061	40.0	B/150	○
30/200G	470	250	66	61	160	200	52.2	93	16	20061	44	B/200	○
30/200GL	520	300	66	61	160	200	52.2	93	16	20061	46.5	B/200	○
30/200GS	570	350	66	61	160	200	52.2	92.5	16	20061	49	B/200	○
30/200GX	595	375	66	61	160	200	52.2	92.5	16	20061	50.5	B/200	○
30/250G	530	300	74	66	200	250	47.5	97.5	20	20061	70	-	○
30/250GL	580	350	74	66	200	250	47.5	97.5	20	20061	75	-	○
30/250GS	680	450	74	66	200	250	47.5	97.5	20	20061	85	-	○
30/250GX	755	525	74	66	200	250	47.5	97.5	20	20061	92	-	○

## Series PRD

- Guided
- Hardened steel HRc 60
- Interchangeable locks

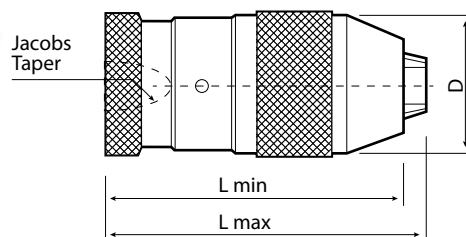


MADE IN SPAIN

PART NUMBER	A	B	C	D	F	H	L	M	TOL.	CLAMP #	WEIGHT	SWIVEL BASE	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg		
PRD/125G	300	130	41	42	110	125	88	66	12	12561	13	B/125	○
PRD/125GL	346	175	41	42	110	125	88	66	12	12561	14	B/125	○
PRD/150G	402	200	56	51	135	150	115	83	16	15061	26	B/150	○
PRD/150GL	452	250	56	51	135	150	115	83	16	15061	28	B/150	○
PRD/150GS	502	300	56	51	135	150	115	83	16	15061	31	B/150	○
PRD/200G	470	250	66	61	160	200	145	92.5	16	20061	44	B/200	○
PRD/200GL	520	300	66	61	160	200	145	92.5	16	20061	46.5	B/200	○
PRD/200GS	570	350	66	61	160	200	145	92.5	16	20061	49	B/200	○

In-Stock ● Two Week Delivery ○

## Jacobs Taper Keyless Drill Chucks



MADE IN TAIWAN

FEMALE TAPER DIN OR JACOBS	ORDERING CODE	TYPE OF CHUCK	CLAMPING CAPACITY	D	Lmin.	Lmax.	STOCK
				mm	mm	mm	
JT1	327190-101	JT1-8XHSP	0-8	36	61	69	●
JT2	327190-201	JT2-8XHSP	0-8	36	61	69	●
JT33	327190-802	JT33-10XHSP	0-10	43	81	92	●
JT33	327190-803	JT33-13XHSP	0-13	51.5	92	103	●
JT6	327190-603	JT6-13XHSP	0-13	51.5	92	103	●
JT6	327190-604	JT6-16XHSP	3-16	58	95	108	●

In-Stock ● Two Week Delivery ○

## Deburring Wheels

- Remove medium to heavy burrs
- Remove parting lines from casting and forging
- Deburr Stainless Steel pipe threads and punched holes
- Smooth radius on stamped metal parts
- Polish welds



MADE IN ITALY

BCW-DB DEBURRING WHEELS									
D x W x H	MAX RPM	7SF	8AM	8SF	8SF-R	9SF	9SF-R	STD. PKG.	
6" x 1/2" x 1"	6000	BCW010 ●	BCW012 ○	BCW014 ○	BCW018 ○	BCW016 ●	BCW017 ○	4	
6" x 1" x 1"	6000	BCW020 ●	BCW022 ○	BCW024 ○	BCW028 ○	BCW026 ●	BCW027 ○	2	
8" x 1/2" x 3"	4500	BCW030 ●	BCW032 ○	BCW034 ○	BCW038 ○	BCW036 ●	BCW037 ○	4	
8" x 1" x 3"	4500	BCW040 ●	BCW042 ○	BCW044 ○	BCW048 ○	BCW046 ●	BCW047 ○	2	
8" x 2" x 3"	4500	BCW050 ○	BCW052 ○	BCW054 ○	BCW058 ○	BCW056 ●	BCW057 ○	1	

## Metal Finishing Wheels

- Generate decorative satin, brushed and antique finishes
- Blend scratches
- Blend machine tool marks
- Light deburring applications
- Polish welds
- General purpose cleaning
- Remove rust



MADE IN ITALY

BCW-MF METAL FINISHING WHEELS				
D x W x H	MAX RPM	5AM	STD. PKG.	STOCK
6" x 1" x 1"	6000	BCW064	2	○
6" x 2" x 1"	6000	BCW070	1	○
8" x 1" x 3"	4500	BCW082	2	○
8" x 2" x 3"	4500	BCW088	1	○

## Multi Finishing Wheels

- Blend coated abrasives scratches
- Apply satin finish/brush finish
- Low density produces large "footprint"



MADE IN ITALY

BCW-MU MULTI FINISHING WHEELS					
D x W x H	MAX RPM	2SC	2SM	STD. PKG.	STOCK
6" x 1" x 1"	6000	BCW060 ○	BCW062 ○	2	
6" x 2" x 1"	6000	BCW066 ○	BCW068 ○	1	
8" x 1" x 3"	4500	BCW078 ○	BCW080 ○	2	
8" x 2" x 3"	4500	BCW084 ○	BCW086 ○	1	

In-Stock ● Two Week Delivery ○

## Soft Density Wheels

### 2S Fine, 3S Fine

- Polish mechanical parts (jet blades, threads, welds, casted parts)
- Smoothing edges
- Cleaning rust, discoloration, coatings
- Blending marks or scratches



MADE IN ITALY

BUR QUICK CHANGE DISKS TYPE R										
D x W x H	MAX RPM		2SF	2AM	3SF	6SF	6AM	8AC	STD. PKG.	STOCK
	DENS. 2-3	DENS. 6-8								
2"	22 100		BUR002	BUR003	BUR009	BUR004	BUR006	BUR008	10	
3"	15 100		BUR010	BUR011	BUT017	BUR012	BUR014	BUR016	10	

## Medium Density Wheels

### 2A Med

- Light deburring or reduction edges
- Blending marks or scratches
- Cleaning scale or oxidation



MADE IN ITALY

BUH WHEELS WITH HOLE									
D x W x H	MAX RPM	2SF	8AM	3SF	6SF	6AM	8AC	STD. PKG.	
3" x 1/4" x 1/4"	18 100	BUH026 ○	BUH027 ○	BUH033 ○	BUH028 ○	BUH030 ○	BUH032 ○	25	
3" x 1/8" x 3/8"	18 100	BUH228 ○	BUH229 ○	BUH235 ○	BUH230 ○	BUH232 ○	BUH234 ○	25	
3" x 1/4" x 3/8"	18 100	BUH050 ○	BUH051 ○	BUH057 ○	BUH052 ○	BUH054 ○	BUH056 ○	25	
3" x 1/2" x 3/8"	18 100	BUH058 ○	BUH059 ○	BUH065 ○	BUH060 ○	BUH062 ○	BUH064 ○	25	
3" x 1/2" x 1/4"	18 100	BUH034 ○	BUH035 ○	BUH041 ○	BUH036 ○	BUH038 ○	BUH040 ○	25	
6" x 1/4" x 1/2"	7500	BUH082 ○	BUH083 ○	BUH089 ○	BUH084 ○	BUH086 ○	BUH088 ○	5	
6" x 1/2" x 1/2"	7500	BUH090 ○	BUH091 ○	BUH097 ○	BUH092 ○	BUH094 ○	BUH096 ○	10	
6" x 1/8" x 1"	7500	BUH188 ○	BUH189 ○	BUH195 ○	BUH190 ○	BUH192 ○	BUH194 ○	10	
6" x 1/4" x 1"	7500	BUH114 ○	BUH115 ○	BUH121 ○	BUH116 ○	BUH118 ○	BUH120 ○	5	

## Hard Density Wheels

### 6S Fine, 6A Med, 8A Crs

- Heavy deburring
- Reducing sharp edges
- Blending heavy marks or scratches
- Cleaning scale or oxidation



MADE IN ITALY

BUF FIBERGLASS BACKING DISCS									
D x H	MAX RPM	2SF	2AM	3SF	6SF	6AM	8AC	STD. PKG.	
4 1/2" x 7/8"	11 000	BUF002 ○	BUF003 ○	BUF009 ○	BUF004 ○	BUF006 ○	BUF008 ○	10	
5" x 7/8"	11 000	BUF010 ○	BUF011 ○	BUF017 ○	BUF012 ○	BUF014 ○	BUF016 ○	10	

## Form Knurling Tool 131

- Integrated set screws for easy adjustment of the clearance angle
- Carbide pins
- Special surface hardening for increased wear resistance



TOOL HOLDER NO.	WORKING AREA	a	b	c	e	f	x	KNURLING WHEELS	SPARE PART	STOCK
	mm	mm	mm	mm	mm	mm	mm			
131-25U250806-A	8-200	25	20	109,5	29.5	37.5	5.5	20 / 25 x 8 x 6	06TER0965	●
131-85U343814-A	8-200	3/4"	20	116,5	24.5	29	2.5	3/4" x 3/8" x 1/4"	06TER0989	●
131-90U343814-A	8-200	1"	20	116,5	24.5	35	2.5	3/4" x 3/8" x 1/4"	06TER0989	●

## Form Knurling Tool 141

- Flexible centering of the tool head
- Integrated set screws for easy adjustment of the clearance angle
- Carbide pins
- Special surface hardening for increased wear resistance



TOOL HOLDER NO.	WORKING AREA	a	b	c	d	e	f	x	KNURLING WHEELS	SPARE PART	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm			
141-25M250806-A	50-200	25	20	156	20	56	55	2.5	25 x 8 x 6	06TER0965	●
141-85M343814-A	10-80	3/4"	20	130	20	50	41	2	3/4" x 3/8" x 1/4"	06TER0989	○
141-90M343814-A	10-80	1"	20	140	20	50	41	2	3/4" x 3/8" x 1/4"	06TER0989	○

## Form Knurling Tool 132

- Knurling up to shoulder
- Integrated set screws for clearance angle adjustment
- Carbide pins
- Special surface hardening for increased wear resistance



TOOL HOLDER NO.	WORKING AREA	a	b	c	d	e	f	KNURLING WHEELS	SPARE PART	STOCK
	mm	mm	mm	mm	mm	mm	mm			
132-85U200813-A	8-200	3/4"	20	105.5	24	25.5	29	20 x 8 x 6/13	06TER0445	●
132-90U200813-A	8-200	1"	20	105.5	24	25.5	35.4	20 x 8 x 6/13	06TER0445	●

In-Stock ● Two Week Delivery ○

## Form Knurling Tool 142

- Knurling up to shoulder
- Flexible centering of the tool head
- Integrated set screws for clearance angle adjustment
- Carbide pins
- Special surface hardening for increased wear resistance



TOOL HOLDER NO.	WORKING AREA	a	b	c	d	e	f	KNURLING WHEELS	SPARE PART	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm (∅ x width x bore)		
142-85M200813-A	10-80	3/4"	20	130	24	50	42	20 x 8 x 6/13	06TER0445	●
142-90M200813-A	10-80	1"	20	130	24	50	42	20 x 8 x 6/13	06TER0445	●

## Cut Knurling Tool 231

- Setting spindle for fine adjustment of the cut knurling head
- Scaling and positioning aids
- Lock-in position at 30° for an optimal starting position
- Precise knurl holding unit



TOOL HOLDER NO.	WORKING AREA	a	b	c	d	e	f	KNURLING WHEELS	SPARE PART	STOCK
	mm	mm	mm	mm	mm	mm	mm	mm (∅ x width x bore)		
231-20M250608-A	10-300	20	25	129	33	49	36	25 x 6 x 8	21BHR0506	●
231-25M250608-A	10-300	25	25	129	33	49	41	25 x 6 x 8	21BHR0506	○

## Cut Knurling Tool 241

- Feed knurling
- Serration between tool holder and cut knurling head
- Setting scale and synchronously adjusted setting spindle for adjustment of the work piece diameter/clearance angle correction
- Cut knurling head spindle with scaling
- Fine adjustment of the center height and cut knurling head with setting scale and spindle



TOOL HOLDER NO.	WORKING AREA	a	b	c	d	e	f	KNURLING WHEELS	SPARE PART	STOCK
	∅ mm	mm	mm	mm	mm	mm	mm	mm (∅ x width x bore)		
241-20/25M250608-A1	10 - 250	20	20	134	68	54	58	25 x 6 x 8	21BHR0506	●
241-25M250608-A1	10 - 250	20	25	134	68	54	58	25 x 6 x 8	21BHR0506	○

\*See main catalogue for other styles available.

## Knurling Wheels with Chamfer (45°)

Metric  
Powder Metal, S590



STANDARD VERSION	DIMENSIONS			STANDARD PITCH	TYPE							
	DIAMETER	WIDTH	BORE		AA	BL30°	BL45°	BR30°	BR45°	GE30°	GE45°	KE
	mm	mm	mm									
No. 11	10	3	6	★	○	○	○	○	○	○	○	○
No. 11	10	4	4	★	○	○	○	○	○	○	○	○
No. 11	15	4	4	★	○	○	○	○	○	○	○	○
No. 11	15	4	8	⊙	○	○	○	○	○	○	○	○
No. 11	15	6	4	★	○	○	○	○	○	○	○	○
No. 11	15	6	6/8	□	○	○	○	○	○	○	○	○
No. 11	15	6	6/11	⊙	○	○	○	○	○	○	○	○
No. 11	20	6	6	◆	○	○	○	○	○	○	○	○
No. 11	20	8	6	◆	○	○	○	○	○	○	○	○
No. 11	20	8	6/13	⊙	○	○	○	○	○	○	○	○
No. 11	20	8	10/12	⊙	○	○	○	○	○	○	○	○
No. 11	20	10	6	⊙	○	○	○	○	○	○	○	○
No. 11	25	6	6	⊙	○	○	○	○	○	○	○	○
No. 11	25	6	8	⊙	○	○	○	○	○	○	○	○
No. 11	25	8	6	⊙	○	○	○	○	○	○	○	○
No. 11	25	10	6	⊙	○	○	○	○	○	○	○	○

- ◆ 0,3 / 0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1,0 / 1,2 / 1,5 / 1,6 / 1,8 / 2,0
- ★ 0,3 / 0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1,0 / 1,2 / 1,5
- ⊙ 0,6 / 0,8 / 1,0 / 1,2 / 1,5
- 0,6 / 0,8 / 1,0 / 1,2

## Cut Knurling Wheel Without Chamfer

Metric  
Powder Metal, S590



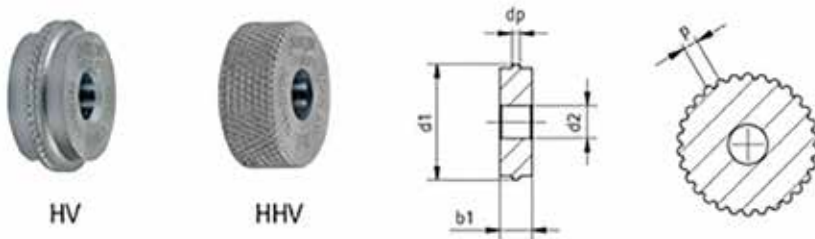
STANDARD VERSION	DIMENSIONS			STANDARD PITCH	TYPE				
	DIAMETER	WIDTH	BORE		AA	BL30°	BL15°	BR30°	BR15°
	mm	mm	mm						
No. 16	8,9	2,5	4	◆	○	○	○	○	○
No. 16	10	3	6	◆	○	○	○	○	○
No. 16	14,5	3	5	◆	○	○	○	○	○
No. 16	15	4	8	◆	○	○	○	○	○
No. 16	21,5	5	8	★	○	○	○	○	○
No. 16	25	6	8	★	○	○	○	○	○
No. 16	32	13	16	★	○	○	○	○	○
No. 16	42	13	16	★	○	○	○	○	○

- ◆ 0,3 / 0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1,0 / 1,2 / 1,5 / 1,6 / 1,8 / 2,0
- ★ 0,3 / 0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1,0 / 1,2 / 1,5
- ⊙ 0,6 / 0,8 / 1,0 / 1,2 / 1,5
- 0,6 / 0,8 / 1,0 / 1,2

# SPECIAL KNURLING WHEELS

In-Stock ● Two Week Delivery ○

## No. 60 - Bead Knurling Wheels



Note: The completeness of the teeth numbers on the knurling wheel depends on the width/pitch of the knurl.

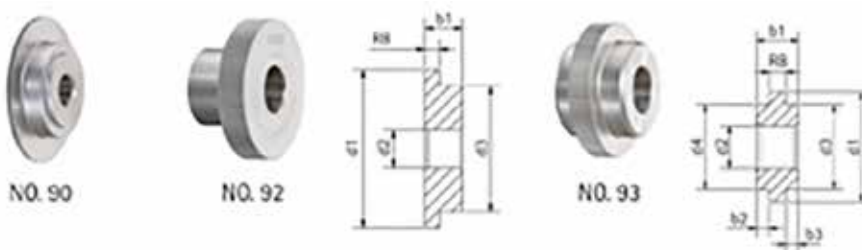
## No. 70 - Conical Knurling Wheels



## No. 80 - Convex/Concave Knurling Wheels



## No. 90, 92, 93 - Special Knurling Wheels



The picture of knurling wheel No. 90 is only an example. No. 90 stands for all special designs, which are not covered by No. 92 and No. 93.



## Tool Descriptions

### Slimline LMDS Series

- For medium duty load applications!
- Similar design as Heavy-Duty with small casing diameter.
- Good loading capacity but lower RPM

### Heavy Duty LHDR Series

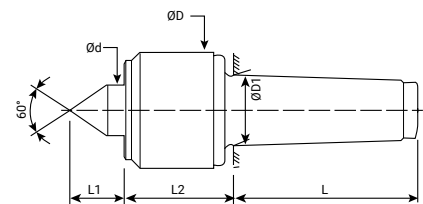
- Capable of withstanding high RPM at high work-piece loads
- Suitable for CNC turning centers.
- Life-time lubricated

### Small Casing LMDC Series

- For medium & light duty load applications only!
- Small housing for maximum tooling access
- High speed rated, can be used for high RPM applications

## Slimline-LMDS-S-Series

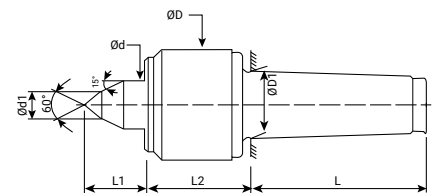
CNC MODEL  
Standard 60° Center Point



PART NUMBER	TAPER	ØD	Ød	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	kg	mm		
LMDS-S3	MT3	42	20	23.825	26	52	81	375	0.005	5700	●
LMDS-S4	MT4	54	24	31.267	32	63	102.5	600	0.005	4500	●
LMDS-S5	MT5	87	38	44.399	51	91.5	129.5	1800	0.005	2700	○
LMDS-S6	MT6	125	59.5	63.348	68	107.5	182	3000	0.010	1750	○

## Slimline-LMDS-E Series

CNC MODEL  
Extended 60/40° Center Point



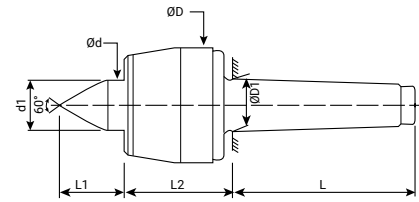
PART NUMBER	TAPER	ØD	Ød	Ød1	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	mm	kg	mm		
LMDS-E3	MT3	42	20	11	23.825	26	52	81.0	260	0.005	6000	●
LMDS-E4	MT4	54	24	13	31.267	44	63	102.5	375	0.005	4500	●
LMDS-E5	MT5	87	38	16	44.399	65.0	91.5	129.5	900	0.008	2700	○
LMDS-E6	MT6	125	59.5	22	63.348	100	107.5	182.0	2000	0.010	1700	○

# EUROTECH-LIVE CENTRE

In-Stock ● Two Week Delivery ○

## Heavy Duty-LHDR-S Series

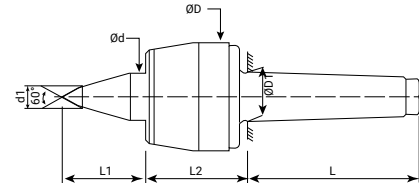
CNC MODEL  
Standard 60° Center Point



PART NUMBER	TAPER	ØD	Ød	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	kg	mm		
LHDR-S2	MT2	46.0	20.0	17.780	25.0	50.5	64.0	150	0.005	6300	○
LHDR-S3	MT3	62.0	28.0	23.825	34.0	64.5	81.0	375	0.005	4500	●
LHDR-S4	MT4	68.0	32.0	31.267	41.0	65.0	102.5	600	0.005	3500	●
LHDR-S5	MT5	87.0	38.0	44.399	51.0	83.0	129.5	1500	0.005	2700	○
LHDR-S6	MT6	102.0	50.0	63.348	57.5	101.5	182	2600	0.010	2300	○

## Heavy Duty-LHDR-E Series

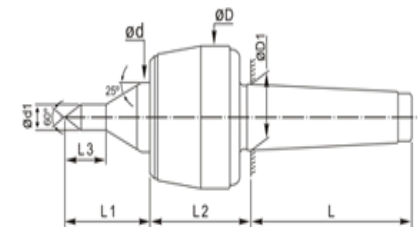
CNC MODEL  
Extended 60/40° Center Point



PART NUMBER	TAPER	ØD	Ød	Ød1	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	mm	kg	mm		
LHDR-E2	MT2	46	20	10	17.780	35.0	50.5	64.0	100	0.005	6300	○
LHDR-E3	MT3	62	28	12	23.825	51.0	64.5	81.0	300	0.005	4500	●
LHDR-E4	MT4	68	32	14	31.267	54.5	65.0	102.5	375	0.005	3500	●
LHDR-E5	MT5	87	38	16	44.399	65.0	83.0	129.5	900	0.005	2700	○
LHDR-E6	MT6	102	50	18	63.348	81.0	101.5	182.0	1870	0.010	2300	○

## Heavy Duty-LHDR-P Series

CNC MODEL  
Profiled Center Point



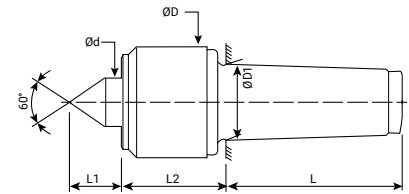
PART NUMBER	TAPER	ØD	Ød	Ød1	ØD1	L1	L2	L3	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	mm	mm	kg	mm		
LHDR-P2	MT2	46	20	8	17.780	35.0	50.5	16.0	64.0	80	0.005	6300	○
LHDR-P3	MT3	62	28	10	23.825	47.0	64.5	20.0	81.0	240	0.005	4500	○
LHDR-P4	MT4	68	32	12	31.267	53.0	65.0	26.0	102.5	300	0.005	3500	○
LHDR-P5	MT5	87	38	14	44.399	65.0	83.0	30.0	129.5	720	0.005	2700	○

# EUROTECH-LIVE CENTRE

In-Stock ● Two Week Delivery ○

## Small Casing-LMDC-S Series

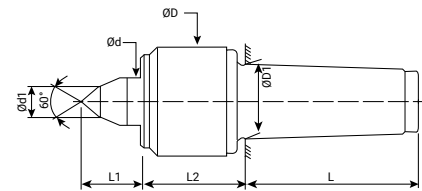
CNC SLIM MODEL  
Standard 60° Center Point



PART NUMBER	TAPER	ØD	Ød	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	kg	mm		
LMDC-S2	MT2	34.0	15.0	17.780	19.0	48.5	64.0	150	0.005	6300	○
LMDC-S3	MT3	34.0	15.0	23.825	19.0	48.5	81.0	300	0.005	6300	●
LMDC-S4	MT4	42.0	20.0	31.267	38.0	56.0	102.5	600	0.005	5600	●
LMDC-S5	MT5	68.0	32.0	44.399	41.0	78.0	129.5	1500	0.008	3300	○

## Small Casing-LMDC-E-Series

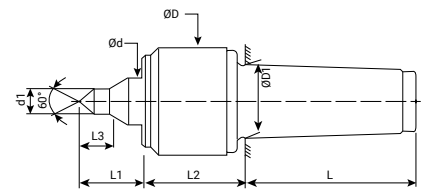
CNC SLIM MODEL  
Extended 60/40° Center Point



PART NUMBER	TAPER	ØD	Ød	Ød1	ØD1	L1	L2	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	mm	kg	mm		
LMDC-E2	MT2	34.0	15.0	10.0	17.780	29.0	48.5	64.0	125	0.005	6300	○
LMDC-E3	MT3	34.0	15.0	11.0	23.825	30.0	48.5	81.0	250	0.005	6300	●
LMDC-E4	MT4	42.0	20.0	13.0	31.267	38.0	56.0	102.5	300	0.005	5600	●
LMDC-E5	MT5	68.0	32.0	14.0	44.399	53.0	78.0	129.5	900	0.008	3300	○

## Small Casing-LMDC-P Series

CNC SLIM MODEL  
Profiled Center Point



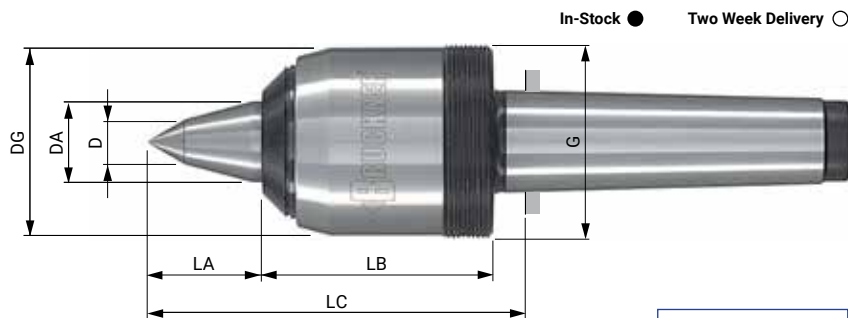
PART NUMBER	TAPER	ØD	Ød	Ød1	ØD1	L1	L2	L3	L	MAX. WEIGHT	MAX. RUNOUT	MAX. RPM	STOCK
		mm	mm	mm	mm	mm	mm	mm	mm	kg	mm		
LHDR-P2	MT2	34.0	15.0	6.0	17.780	29.0	48.5	12.0	64.0	100	0.005	6300	○
LHDR-P3	MWT3	34.0	15.0	8.0	23.825	30.0	48.5	16.0	81.0	200	0.005	6300	○
LHDR-P4	MT4	42.0	20.0	10.0	31.267	38.0	56.0	20.0	102.5	300	0.005	5600	○
LMDC-P5	MT5	68.0	32.0	14	44.399	53.0	78.0	28.0	129.5	800	0.008	3300	○

## Types NC 33, NC 43

- For high r.p.m.
- Centrepoint 60°/40° with draw-off thread

### Runout

- Max. 0.005 mm, with test report



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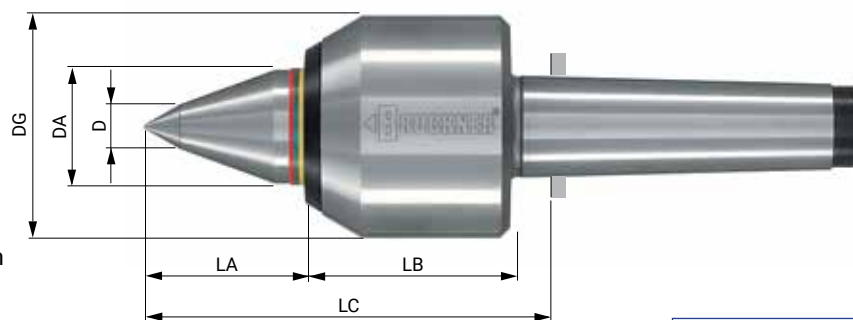
TYPE NC	ID.NO.	33.045-2	33.045-3	43.058-3	33.058-4	43.076-4	33.076-5	43.095-5	33.095-6
<b>DRAW-OFF NUT</b>	<b>ID.NO.</b>	M45A	M45A	M60	M60	M80	M80	M100	M100
<b>Morse taper</b>		2	3	3	4	4	5	5	6
<b>DA</b>		20	20	25	25	35	35	45	45
<b>D</b>		6	6	14	14	16	16	20	20
<b>DG</b>		45	45	58	58	76	76	95	95
<b>LA</b>		25	25	35	35	44	44	54	54
<b>LB</b>		57	57	70	70	81	81	103	103
<b>LC</b>		87	88	112	112	132	132	164	164
<b>G</b>		M45x2	M45x2	M60x1.5	M60x1.5	M80x2	M80x2	M100x2	M100x2
<b>Workpiece weight max. daN*</b>		280	280	500	500	1100	1300	2200	2200
<b>r.p.m. max.*</b>		8000	8000	7000	7000	6000	6000	5000	5000
<b>Radial/axial load graph</b>		RC1/AC1	RC1/AC1	RC2/AC2	RC2/AC2	RC3.1/AC3	RC3.2/AC3	RC4/AC4	RC4/AC4
<b>STOCK</b>		○	○	○	○	○	○	○	○

## Type LRV

- Centrepoint 60°/40° extended spring loaded with pressure indication by coloured rings

### Runout

- Max. 0.005 mm with test report
- Max. 0.003 mm high precision design on request



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TYPE LRV	ID.NO.	700V 055003	700V 068004	700V 092005
<b>MORSE TAPER</b>		3	4	5
<b>DA</b>		25	35	50
<b>D</b>		12	14	18
<b>DG</b>		55	68	92
<b>LA</b>		37	49	69
<b>LB</b>		51	63	82
<b>LC</b>		93	117	157
<b>Workpiece weight max. daN*</b>		320	900	1400
<b>Spring travel</b>		2.7	4.2	5.4
<b>r.p.m. max.*</b>		5000	4000	3500
<b>Radial/axial load graph</b>		RF1/AF1	RF2/AF2	RF3/AF3
<b>STOCK</b>		○	○	○

\*Available with draw-off thread and draw-off nut.

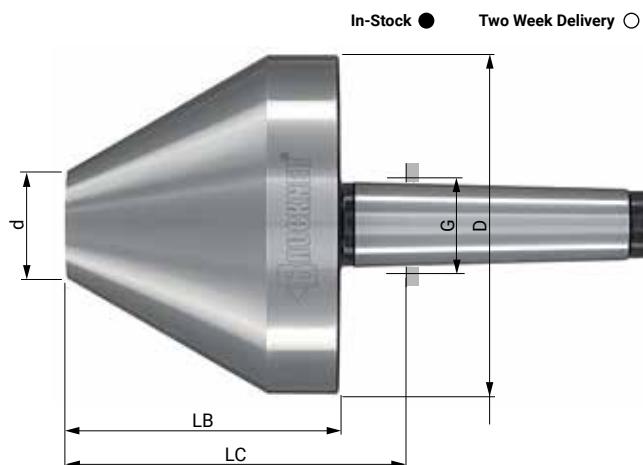
\*Available with VDI, Capto, and cylindrical shanks.

## Types ZA, ZAG

- Angle 60°, 75°
- Without draw-off thread

### Runout

- **Type ZA** Max. 0.007mm
- **Type ZAG** Max. 0.003mm with test report



MADE IN GERMANY

TYPES ZA, ZAG 60° WITHOUT DRAW-OFF THREAD											
MORSE TAPER	ID.NO.						WORKPIECE WEIGHT MAX. DAN*	R.P.M. MAX.*	LOAD GRAPH		STOCK
	ZA	ZAG	D	d	LC	LB			RADIAL	AXIAL	
2	1920:60	2120:60	45	15	78	70	230	5000	R01	A01	○
2	1821:60	2021:60	60	1	93	85	230	5000	R01	A01	○
2	1921:60	2121:60	60	20	74	66	230	5000	R01	A01	○
2	1922:60	2122:60	80	25	70	62	230	5000	R01	A01	○
3	1930:60	2130:60	45	15	78	70	230	5000	R01	A01	○
3	1831:60	2031:60	60	1	111	104	450	4300	R02	A02	○
3	1931:60	2131:60	60	20	95	88	450	4300	R02	A02	○
3	1932:60	2132:60	80	25	95	88	450	4300	R02	A02	○
3	1933:60	2133:60	100	35	95	88	450	4300	R02	A02	○
4	1841:60	2041:60	60	1	113	104	450	4300	R02	A02	○
4	1941:60	2141:60	60	20	97	88	450	4300	R02	A02	○
4	1942:60	2142:60	80	25	113	100	1200	3600	R04	A03	○
4	1943:60	2143:60	100	35	113	100	1200	3600	R04	A03	○
4	1944:60	2144:60	125	40	113	100	1200	3600	R04	A03	○
4	1945:60	2145:60	150	50	113	100	1200	3600	R04	A03	○
4	1947:60	2147:60	200	75	135	122	800	3600	R03	A03	○
5	1952:60	2152:60	80	25	113	100	1200	3600	R04	A03	○
5	1953:60	2153:60	100	35	113	100	1200	3600	R04	A03	○
5	1954:60	2154:60	125	40	144	130	2500	2000	R05	A04	○
5	1955:60	2155:60	150	50	136	122	2500	2000	R05	A04	○
5	1957:60	2157:60	200	75	136	122	2500	2000	R05	A04	○
5	1958:60	2158:60	250	130	136	122	2500	2000	R05	A04	○
5	1959:60	2159:60	300	180	136	122	2500	2000	R05	A04	○
6	1964:60	2164:60	125	40	146	130	3000	2000	R06	A04	○
6	1965:60	2165:60	150	50	138	122	3000	2000	R06	A04	○
6	1967:60	2167:60	200	75	138	122	3000	2000	R06	A04	○
6	1968:60	2168:60	250	130	138	122	3000	2000	R06	A04	○
6	1969:60	2169:60	300	180	138	122	3000	2000	R06	A04	○
6	1970:60	2170:60	350	230	138	122	3000	2000	R06	A04	○
6	1983:60	2183:60	250	100	176	160	6000	1500	R07	A05	○
6	1985:60	2185:60	350	180	186	170	6000	1500	R07	A05	○

\*Available with draw-off thread and draw-off nut.

\*Bullnose centres with other shanks on request.

In-Stock ● Two Week Delivery ○

## Carbide Dead Centres, Form E - GHS

- Full Centre 60°
- With Draw-Off Thread

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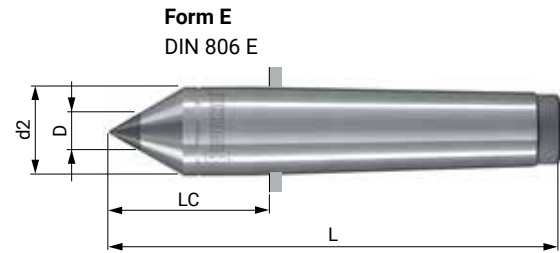
FORM	MORSE TAPER	ID.NO.	D	D2	LC	L	STOCK
E	1	2801H	7	12.2	26.5	80	○
	2	2802H	7	18	36	100	○
	3	2803H	11	24.1	44	125	○
	4	2804H	14	31.6	57.5	160	○
	5	2805H	18	44.7	70.5	200	○
	6	2806H	18	63.8	88	270	○

FORM	MORSE TAPER	ID.NO.	D	D2	H	LH	LC	L	STOCK
HE	1	2811H	7	12.2	4	22	26.5	80	○
	2	2812H	7	18	4	30	36	100	○
	3	2813H	11	24.1	6	38	44	125	○
	4	2814H	14	31.6	7.5	50	57.5	160	○
	5	2815H	18	44.7	9.5	63	70.5	200	○

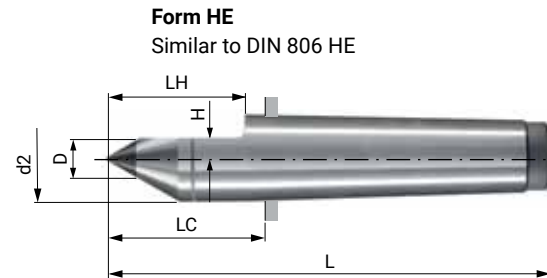
FORM	MORSE TAPER	ID.NO.	D	D2	LC	L	G	STOCK
GE	2	2852	7	18	48	112	M 22x1.5	○
	3	2853	11	24.1	57	138	M 27x1.5	○
	3	2853.18	18	24.1	57	138	M 27x1.5	○
	4	2854	14	31.6	72.5	175	M 36x1.5	○
	4	2854.18	18	31.6	72.5	175	M 36x1.5	○
	4	2854.18-200	18	31.6	97.5	200	M 36x1.5	○
	5	2855	18	44.7	87.5	217	M 48x1.5	○
	5	2855.18-250	18	44.7	120.5	250	M 48x1.5	○
	6	2856	18	63.8	108	290	M 68x1.5	○
	6	2856.35	35	63.8	108	290	M 68x1.5	○

FORM	MORSE TAPER	ID.NO.	D	D2	H	LH	LC	L	G	STOCK
GHS	3	2853/4.0-138	14	24.1	4.0	39.5	57.0	138	M 27x1.5	○
	4	2854/4.0-175	14	31.6	4.0	51.5	72.5	175	M 36x1.5	○
	4	2854/4.0-200	14	31.6	4.0	76.5	97.5	200	M 36x1.5	○
	5	2855/6.0-217	18	44.7	6.0	64.5	87.5	217	M 48x1.5	○
	5	2855/6.0-250	18	44.7	6.0	97.5	120.5	250	M 48x1.5	○

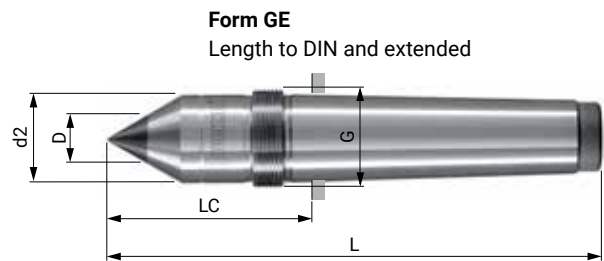
\*See main Bruckner catalogue for other styles available.



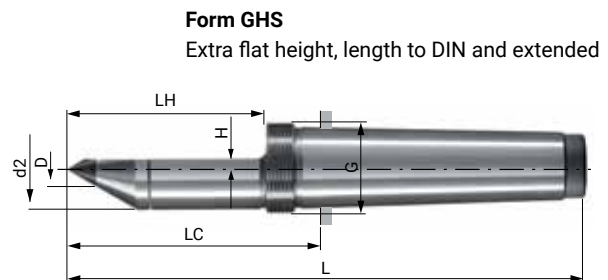
Form E  
DIN 806 E



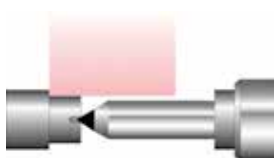
Form HE  
Similar to DIN 806 HE



Form GE  
Length to DIN and extended



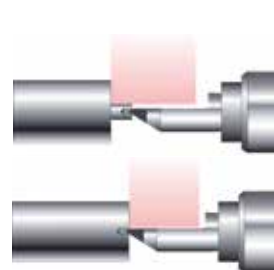
Form GHS  
Extra flat height, length to DIN and extended



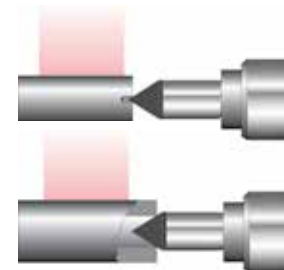
Short grinding length, wide grinding wheel, extended carbide centre  
**Form L**



Larger centrebore, carbide centre with large truncated carbide body  
**Form Z, R, GR**



Small diameter or short grinding length or face grinding. Extended carbide half centre with extra small flat height  
**Form HS, GHS, HV, GHV**



Small to large centres. Carbide centre with solid carbide 60° point  
**Form V, GV**











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CAT 0915



FORZA



bibielle

