



Unbrako[®]
THE WORLD LEADER



INR PRICE LIST
No. DFL / 09
Effective from April, 2014

Limited Warranty And Exclusive Remedy

Deepak Fasteners Ltd., through its Unbrako Division and associated companies, warrants that these products conform to industry standards specified herein and will be free from defects in materials and workmanship. This warranty is expressly given in lieu of any and all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and in lieu of any other obligation on the part of Deepak Fasteners.

Deepak Fasteners will at its option, repair or replace free of charge (excluding all shipping and handling costs) any products which have not been subject to misuse, abuse, or modification and which in its sole determination were not manufactured in compliance with the warranty given above.

Deepak Fasteners makes no representations or warranties, express or implied, that anything imported, made, used, sold, or otherwise provided under any sale agreement is or will be free from infringement of patents or other proprietary rights of any third persons. Nothing in this application, or any agreement, shall be construed as giving rise to any obligation on Deepak Fasteners part to indemnify or hold harmless any Buyer from any liability relating to Buyer's purchase, use, or re-sale of Deepak Fasteners product, or the incorporation of Deepak Fasteners product into another manufactured product.

The remedy provided herein shall be the exclusive remedy for any breach of warranty or any claim arising in any way out of the manufacture, sale or use of these products. In no event shall Deepak Fasteners be liable for consequential, incidental or any other damages of any nature whatsoever except those specifically provided herein for any breach of warranty or any claim arising in any way of the manufacture, sale or use of these products. No other person is authorized by Deepak Fasteners to give any other warranty, written or oral, pertaining to the products.

Note

- Plating** : All the products, unless otherwise ordered, are supplied in black thermal finish with a coat of rust preventive oil. No guarantee can be give for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Packing** : All products are supplied in standard packing as described in respective price tables. For sizes M6 (1/4") and above - 3% extra packing charges will be applicable if the order quantity is less than one carton.
- Pricing** : The prices mentioned in this pricelist are in INR - Indian Rupee (₹)
The price, specification and other particulars contained in this pricelist are subject to change with notice. **PRICES ARE EXCLUSIVE OF ALL TAXES AND DUTIES.**

Certifications



ISO 9001:2008



CE CERTIFIED:
BS EN 14399 & 15048



ISO / TS 16949:2009



ISO/IEC 17025:2005

About Unbrako

Founded in 1911, Unbrako is the world leader in advancing the technology of bolted joints and meeting the needs of industry for stronger and better performing fasteners. Products such as the famous Unbrako® socket head cap screw and Durlok® fasteners are the solutions of choice for engineering applications across the world & is used by industries such as the automotive, power generation, petrochemical, heavy machinery, construction and military sectors.

With an extensive international network in 35 countries, Unbrako provides a complete range of industrial fastening hardware including bolts, screws, SEM's, nuts, studbolts, self-locking fasteners, thread forming fasteners, among others.

Unbrako products are primarily used in performance critical applications and incorporate unique design and workmanship features that meet or exceed recognized international standards, resulting in higher tensile strength, improved fatigue resistance, ease of installation, reduced total cost of maintenance and extended life cycle.

With advanced manufacturing, engineering and logistics facilities, ISO/TS and CE certification, Unbrako is equipped to provide technical support and full-service package. Unbrako's focus is on building long - term relationships with its customers. Full-service includes engineering and design support, procurement and purchasing services, localized warehousing and transport, a variety of packaging options and choice of delivery frequencies – to provide the right answer to any customer need.



**Largest
Cold
Forgers in
the World**



**Longest
Heat
Treatment
Capacity**



**State-of-the
-Art Heat
Treatment
Process**

Quick Product Selection Guide

PRODUCT	TENSILE STRENGTH		SIZE RANGE				EQUIVALENT STANDARDS					
	Property Class		Diameter		Length							
	Psi. Min.	N/mm ²	Metric	Inch*	Metric	Inch*	IS	ISO	DIN	BS	ANSI	JIS
Socket Head Cap Screws 	190000	1,300 (12.9)	M2 to M42	1/8 to 1"	6 to 300 mm	3/16" to 10"	2269	4762	912	4168 2470	B18.3.1M	B1176
Socket Countersunk Head Screws 	160000	1,050 (12.9)	M3 to M24	3/16" to 5/16"	6 to 60 mm	3/8" to 1.1/4"	6761	--	7991	4168 2470	B18.3.5M	--
Socket Button Head Cap Screws 	--	1,050 (12.9)	M3 to M12	--	6 to 50 mm	--	--	7380	9427	4168	B18.3.4M --	--
Socket Head Shoulder Screw 	--	(12.9)	M6 to M24	--	10 to 120 mm	--	--	7379	9841	4168	--	--
Socket Set Screws Knurled Cup 	Hardness HRc 45 Min.		M3 to M20	1/8" to 3/4"	3 to 85 mm	3/16" to 3"	6094	4026 4027 4028 4029	913 914 915 916	4168 2470	B18.3.6M	B1177
Durlok Bolt 	--	12.9	M6 to M20	--	12 to 100 mm	--	As Per Unbrako Specification					
Hex Wrenches 	Hardness HRc 47 Min.		1.5 to 32 mm	1/16" to 3/4"	--	--	3082	2936	911	4168 2470	B18.3.2M	B4648
Hex Head Bolts 	800/830 (8.8) 1,040 (10.9)	Grade R,S V	M4 to M42	1/4" to 2"	10 to 300 mm	1/2" to 12"	1364	4014 4017	931 933	1083 1768	B18.2.1	B1180
Hex Nuts 	Nut Grade 8/10	Nut Grade 8/5	M6 to M72	1/4" to 1-1/2"	--	--	1364	4032	934	1083 1768	B18.2.4.1M B18.2.2	B1181
High Strength Structural Bolts, Nuts, Washers 	Bolts 8.8/10.9 Nuts 8/10	--	M16 to M30	--	40 to 300 mm	--	3757 6623 6649	7412 4775 7415	6914 6915 6916	4395	B18.2.3.7M B18.2.4.6M	B1186
Stud With 2 Heavy nuts 	Stud B7 Nut 2H		M12-M56	1/2" to 2-1/4"	60 to 500 mm	2.1/4" to 27"					A193 A194	
Special Products 	--	800/830 (8.8) 1,040 (10.9)	M3 to M42	1/8" to 1"	6 to 410 mm	3/8" to 12"	As per customer specifications					

*Thread type in any of the following inch series : BSW, BA, UNC & UNF.

** Thread type in NPTF

Note : UNBRAKO standards meet, or in many instances, exceed the requirements of the standards listed.

Plating : No guarantee can be given for UNBRAKO products which have been plated by the users and / or outside plates, who may not have considered hydrogen embrittlement problem.

Thread Size Comparison

METRIC PRODUCTS							UNIFIED INCH PRODUCTS				B.S. INCH PRODUCTS					
SIZE	THREAD PITCH & T.P.I.				Major Dia		SIZE	T.P.I.		Major Dia	SIZE	T.P.I.		Major Dia	T.P.I.	Major Dia
	COARSE		FINE					UNC	UNF			inch	BSW			
	PITCH (mm)	T.P.I.	PITCH (mm)	T.P.I.	mm	Inch				inch				inch	inch	
M3	0.50	51	—	—	3.00	0.118	#5	40	44	0.125	1/8	40	-	0.125		
							#6	32	40	0.138	5 BA				43.1	0.126
											4 BA				38.5	0.142
M4	0.70	36	—	—	4.00	0.157	#8	32	36	0.164	3 BA	24	32	0.187	34.8	0.161
M5	0.80	32	—	—	5.00	0.197	#10	24	32	0.190	3/16					
											2 BA				31.3	0.185
											1 BA				28.2	0.209
M6	1.0	25	—	—	6.00	0.236	1/4	20	28	0.250	1/4	20	26	0.250	25.4	0.236
											0 BA					
M8	1.25	20	1.00	25	8.00	0.315	5/16	18	24	0.313	5/16	18	22	0.313		
M10	1.50	17	1.25	20	10.00	0.394	3/8	16	24	0.375	3/8	16	20	0.375		
M12	1.75	14.5	1.25	20	12.00	0.472	1/2	13	20	0.500	7/16	14	18	0.438		
(M14)	2.00	12.5	1.50	17	14.00	0.551					1/2	12	16	0.500		
M16	2.00	12.5	1.50	17	16.00	0.630	5/8	11	18	0.625						
(M18)	2.50	10	1.50	17	18.00	0.709										
M20	2.50	10	1.50	17	20.00	0.787	3/4	10	16	0.750	3/4	10	12	0.750		
(M22)	2.50	10	1.50	17	22.00	0.866	7/8	9	14	0.875	7/8	9	11	0.875		
M24	3.00	8.5	2.00	13	24.00	0.945	1	8	12	1.000	1	8	10	1.000		
							1-1/8	7	12	1.125	1-1/8	7	9	1.125		
(M27)	3.00	8.50	2.00	13	27.00	1.063										
M30	3.50	7.25	2.00	13	30.00	1.181	1-1/4	7	12	1.250	1-1/4	7	9	1.250		
(M33)	3.50	7.25	2.00	13	33.00	1.299										
M36	4.00	6.40	3.00	8.5	36.00	1.417	1-1/2	6	12	1.500	1-1/2	6	8	1.500		
(M39)	4.00	6.40	3.00	8.5	39.00	1.535										
M42	4.50	5.60	3.00	8.5	42.00	1.653										

Note : Sizes in brackets are non-preferred standards

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Thread

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Unbrako Socket Range

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Unbrako Socket Range

Unbrako is the world's leading socket screw brand with more than 100 years experience of supplying to high-end industries, such as the automotive, aerospace, petrochemical, heavy machinery and military sectors.

Unbrako socket screws meet/exceed industry standards. Unbrako is top-grade solution for those industrial end-users who demand maximum precision, product lifespan, reliability and premium technical services.

Superior performance ultimately translates into cost savings: reduced number of parts, reduced weight and size of equipment, less equipment failure and downtime, longer product life and lower total cost.

Advantages



Compound Fillet Radius
By blending 2 different radii doubles fatigue life at critical head-shank juncture

Better installation ability
Deep, accurate socket for perfect fit and high-torque wrenching

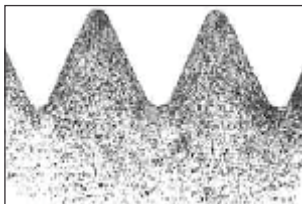
Patented E-Code™ "Lot Code" Markings
The ultimate in fastener traceability

Higher Min ULT Tensile
Unbrako Socket Screws are 10,000 PSI stronger than industry standard

3R Radiused Root Runout Thread
Increases fatigue life up to 300%

Wide Radius Threads
Fully formed radiused thread increases fatigue life 100% over flat root thread forms.

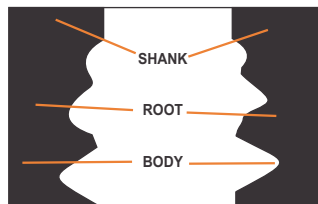
Contour flow & root radius



Contour-following flow lines provide extra shear strength in threads, resist stripping and provide high fatigue resistance.

Extra large root radius doubles fatigue life compared to flat root thread forms.

Controlled runout root radius



Unbrako's controlled runout root radius provides a smooth form that distributes stress and increases fatigue life of thread runout up to 300% for certain sizes.

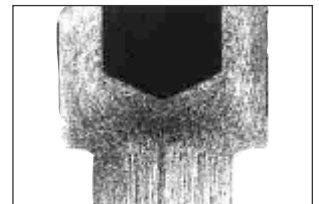
The sharp angle at the root of conventional threads results in high stress concentration and crack initiation points.

Forged heads



Controlled head forging, uniform grain flow and unbroken flow lines, make heads stronger, minimizes failure in vital fillet area, and improves fatigue strength.

Accurate socket depth



Accurate socket depth allows more wrench engagement than other screw, permitting tightening without cracking or reaming the socket while providing ample metal in the crucial fillet area for maximum head strength.



Socket Head Cap Screw

Metric

DIA	M8 Wrench Key Size 6mm			M10 Wrench Key Size 8mm			M12 Wrench Key Size 10mm			M14 Wrench Key Size 12mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	103056	932	200										
12	114972	703	200	106237	1,150	200							
16	103058	585	200	103080	1,070	200	106247	2,837	100				
20	122086	629	200	113163	1,115	200	112607	2,637	100				
25	119351	645	200	115060	1,065	100	122250	2,310	100	400528	6,171	50	
30	119383	772	200	122114	1,142	100	122251	2,194	100	400529	6,003	50	
35	122113	773	200	113257	1,233	100	125530	2,233	100	400530	5,047	50	
40	113143	885	200	100845	1,471	100	114996	2,254	100	400531	5,166	50	
45	121076	1,033	200	121088	1,627	100	115075	2,469	50	400532	5,260	50	
50	121068	1,088	200	125660	1,780	100	112360	2,345	50	120863	5,378	50	
55	103063	1,201	100	103087	1,922	100	122255	2,810	50	400533	5,445	50	
60	121070	1,292	100	122217	2,079	100	122260	2,894	50	112000	5,769	50	
65	103064	1,406	100	103088	2,246	100	122261	3,038	50	400534	5,856	50	
70	103066	1,544	100	125786	2,421	50	103098	3,199	50	400535	6,314	50	
75	103069	1,593	100	103090	2,579	50	103099	3,439	50	400536	6,686	50	
80	103070	2,299	100	103091	3,567	50	103100	4,015	50	400537	6,999	20	
90	103073	2,668	100	103094	4,078	50	103103	4,540	50	400538	7,158	20	
100	103075	3,165	100	103095	4,647	50	122142	5,016	50	400539	8,885	25	
110	103076	3,955	100	103096	5,504	50	125791	6,177	25	400540	9,924	25	
120	103077	4,619	50	103097	5,567	50	103104	7,102	25	400508	10,431	25	
130	106230	5,605	50	106240	7,579	50	103107	8,403	25	180223	11,786	25	
140	106231	6,020	50	106241	8,457	50	103108	9,370	25	180103	12,934	25	
150	106232	6,502	50	106242	9,406	50	103110	10,358	25	180225	13,823	25	
160	106233	7,129	100	106243	11,758	50	107456	17,078	25	180226	14,342	10	
170	700125	7,696	100	210001	12,964	25	181063	19,300	20	210002	15,664	10	
180	106234	8,112	100	106244	13,227	25	107458	18,776	20	180227	16,586	10	
200	106235	8,965	100	106245	14,138	25	107459	20,327	20	551663	18,720	10	
220							400570	22,490	20	791320	20,592	10	
230							183555	28,167	20	791321	21,424	10	
240							400571	33,765	20	791322	22,360	10	
260							400572	38,585	20	791323	24,024	10	
280							400573	40,425	20	791324	25,896	10	

Grey highlighted items are full threaded

- Specifications :** Generally conforming to IS : 2269, DIN : 912, ISO : 4762.
- Threads :** ISO Metric (Coarse Series) 4g6g as per IS : 4218, ISO : 261, ISO : 965.
- Material :** Unbrako High Grade Alloy Steel.
- Mechanical Properties :** Property Class 12.9 as per IS : 1367, ISO : 898 Part I.
- Note :** Upto 80MM Dia can be manufactured against request.
- For sizes beyond those listed, prices on application.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Head Cap Screw

Metric

DIA	M16 Wrench Key Size 14mm			M18 Wrench Key Size 14mm			M20 Wrench Key Size 17mm			M22 Wrench Key Size 17mm		
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
20	210003	5,906	50									
25	106248	5,746	50				210006	14,059	25			
30	103112	5,746	50	183894	16,124	20	107465	13,677	10			
35	103113	4,715	50	400541	16,326	20	107466	13,857	10			
40	125751	4,699	50	400542	14,296	20	103130	12,131	10	180408	17,334	10
45	103115	5,036	50	400606	14,400	25	103131	12,557	10	180409	17,334	10
50	112474	5,020	25	100844	14,512	10	103132	11,697	10	180181	17,334	10
55	103117	5,344	25	400543	14,602	10	103136	12,390	10	180182	18,970	10
60	112594	5,247	25	400544	14,719	10	103137	11,856	10	180183	20,044	10
65	103118	5,875	20	400545	14,839	25	103138	12,597	10	180184	21,717	10
70	103119	6,340	20	400546	15,847	10	103141	13,453	10	180185	22,739	10
75	103120	6,891	20	400547	16,882	10	103142	14,330	10	210007	24,105	10
80	125658	7,018	20	400549	17,210	10	103143	13,878	10	180186	25,335	10
90	103122	7,822	10	400550	17,559	10	103144	14,900	10	180187	25,857	10
100	103123	8,912	10	400551	18,420	10	103145	16,060	10	180188	28,024	10
110	103124	9,949	20	400548	20,382	25	103146	17,777	10	180189	29,655	10
120	103126	10,466	20	400552	22,323	15	103148	19,493	10	180190	32,049	5
130	103127	11,929	20	180311	24,856	10	103150	21,187	10	180191	43,326	5
140	103128	12,776	20	180229	27,595	10	103151	22,889	10	180192	49,245	5
150	103129	13,614	20	180407	28,841	10	103152	25,065	10	180193	65,654	5
160	103364	27,109	10	180230	30,765	10	107462	32,125	10	180194	77,384	5
170	180418	30,191	10	210005	36,432	10	180495	36,688	10	791330	80,341	5
180	107460	31,034	10	100231	43,276	10	107463	36,688	10	180196	85,115	5
200	107448	33,362	10	551668	46,072	10	107464	38,268	10	180198	91,100	5
220	400574	38,509	10	791325	50,440	10	400553	39,860	10	210008	97,377	5
230	182815	43,659	10	791326	53,040	10	181001	51,166	5	791331	101,570	5
240	400575	45,245	10	791327	55,120	10	400554	62,470	5	210009	108,047	5
260	400576	57,120	10	791328	59,280	10	400555	76,632	5	210010	115,991	5
280	400577	68,988	10	551667	63,440	10	400556	90,782	5	210011	120,569	5
300	400578	73,915	10	791329	67,600	10	400557	97,266	5	210012	129,182	5

Grey highlighted items are full threaded

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Socket Head Cap Screw

Metric

DIA	M24 Wrench Key Size 19mm			M27 Wrench Key Size 19mm			M30 Wrench Key Size 22mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
45	103153	16,157	10							
50	103155	15,477	10							
55	103157	17,418	10							
60	103158	17,904	10	180233	31,824	5	180207	31,689	5	
65	103159	19,035	10	581201	33,800	5	210014	31,470	5	
70	103160	20,308	10	180326	34,519	5	116464	34,836	5	
75	103161	21,516	10	210013	36,272	5	182283	36,314	5	
80	103162	22,630	10	406161	38,699	5	140610	37,685	5	
90	103163	23,739	10	406162	41,425	5	140611	39,589	5	
100	103165	25,035	10	406163	44,187	5	140612	44,237	5	
110	103166	26,477	10	406164	46,951	5	140613	46,998	5	
120	103167	29,425	10	400607	49,711	5	140614	49,761	5	
130	103168	30,769	5	406165	53,162	5	140615	53,215	5	
140	103170	32,903	5	406166	55,234	5	140616	56,835	5	
150	103171	35,053	5	400608	58,691	5	140617	58,755	5	
160	104143	58,329	5	400609	92,521	5	140618	88,416	4	
180	104146	60,890	5	406168	102,190	5	140620	97,648	4	
200	104147	65,182	5	400579	111,171	5	140621	106,225	5	
220	400560	69,760	5	180003	138,580	4	140622	131,909	3	
240	400561	74,343	5	406171	153,557	4	400623	141,856	3	
260	400562	76,668	5	406172	167,261	3	140624	151,756	2	
280	400563	80,548	5	406173	178,517	3	140625	161,702	2	
300	400564	86,303	5	406174	188,339	3	140626	171,650	2	

DIA	M33 Wrench Key Size 24mm			M36 Wrench Key Size 27mm			M42 Wrench Key Size 32mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
75	210015	56,068	5							
80	180254	56,619	5	140629	68,010	5				
90	400649	63,169	5	140630	74,253	5	182336	104,896	5	
100	400628	66,008	5	140631	74,274	5	400645	114,913	12	
110	180255	67,673	5	400632	78,308	4	700380	118,036	12	
120	180256	73,871	5	140633	81,690	4	183113	128,362	10	
130	405492	79,494	5	400634	84,396	4	182331	131,122	10	
140	180257	82,171	4	140635	93,176	3	700383	141,877	9	
150	180258	86,316	4	140636	96,535	3	180960	144,854	9	
160	180259	114,280	4	140637	129,911	3	181289	202,587	9	
180	180261	127,046	3	140639	145,153	3	182059	215,010	8	
200	180263	138,093	3	140640	157,307	2	181290	232,937	7	
220	210016	171,136	3	180294	194,496	2	400647	292,228	7	
240	210017	184,360	3	140641	199,846	2	182510	304,609	6	
260	210018	192,861	2	140642	214,029	9	700390	324,902	6	
280	210019	203,477	2	180411	228,256	8	181291	345,214	6	
300	210020	219,366	2	140643	249,259	8	180863	365,521	6	

Grey highlighted items are full threaded



Socket Head Cap Screw

Inch (BSW)

DIA	3/16 Wrench Key Size 5/32"			1/4 Wrench Key Size 3/16"			5/16 Wrench Key Size 7/32"			3/8 Wrench Key Size 5/16"			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
3/8	400056	413	200	400068	494	200							
1/2	400057	413	200	400069	480	200	400085	682	200	400101	1,033	200	
5/8	400058	365	200	400070	470	200	400086	581	200	400102	1,004	200	
3/4	400059	413	200	400071	494	200	400087	624	200	400103	861	200	
7/8	551219	439	200	400072	510	200	400088	633	200	400104	982	200	
1	400061	463	200	400073	553	200	400089	677	200	400105	955	200	
1 1/4	400062	511	200	400074	609	200	400090	776	200	400106	1,047	100	
1 1/2	400063	584	200	400075	698	200	400091	868	200	400107	1,166	100	
1 3/4	400064	665	200	400076	855	200	400092	1,026	200	400108	1,392	50	
2	400065	665	200	400077	832	200	400093	1,026	200	400109	1,447	100	
2 1/4	210021	787	200	400078	1,686	200	400094	1,232	200	400110	1,670	100	
2 1/2	400066	875	200	400079	1,734	200	400095	1,232	100	400111	1,794	100	
2 3/4				400080	2,029	200	404433	1,504	100	400112	2,008	100	
3				400081	2,029	200	400096	1,504	100	400113	2,008	100	
3 1/4				400082	2,432	200	701026	2,510	100	400114	2,940	50	
3 1/2				400083	2,365	200	400098	2,510	100	400115	3,011	50	
4				400084	2,679	100	400099	2,979	100	400116	3,534	50	
4 1/2							400100	4,804	100	400117	5,356	50	
5							701030	5,413	100	400118	6,356	50	
5 1/2										400181	7,639	50	
6										400119	8,087	50	

Grey highlighted items are full threaded

- Specifications** : Generally conforming to BS : 2470.
- Threads** : BS Whitworth Fine, Medium as per BS : 84.
- Material** : Unbrako High Grade Alloy Steel.
- Mechanical Properties** : As per BS 2470
- Note** : Upto 4 Inch Dia can be manufactured against request.
- Plating** : No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Socket head cap screw UNC, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Head Cap Screw

Inch (BSW)

DIA	7/16" Wrench Key Size 5/16"			1/2" Wrench Key Size 3/8"			5/8" Wrench Key Size 1/2"			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
3/4	551220	2,392	100	400130	2,710	100				
7/8	791967	2,392	100	402942	2,710	100		210033	5,116	50
1	400121	2,314	100	400131	2,303	100		400150	4,977	50
1 1/4	400122	2,314	100	400132	2,413	100		400151	4,326	50
1 1/2	400123	2,360	100	400133	2,456	50		400152	4,477	50
1 3/4	400124	2,523	100	400134	2,624	50		400153	4,763	50
2	400125	2,523	100	400135	2,743	50		400154	4,988	20
2 1/4	210025	2,900	50	400136	3,162	50		400155	5,420	20
2 1/2	701059	3,038	50	400137	3,298	50		400156	5,571	20
2 3/4	210026	3,271	50	400138	3,582	50		400157	5,950	20
3	400127	3,333	20	400139	3,894	50		400158	6,116	20
3 1/4	210027	4,434	50	400140	4,656	50		701096	6,835	10
3 1/2	400128	4,313	50	400141	4,656	20		400159	7,132	10
4	400129	4,995	20	400142	5,536	25		400160	8,473	10
4 1/2	210028	7,373	50	400143	6,615	25		400161	8,746	15
5	210029	7,173	25	400144	8,144	25		400162	9,646	15
5 1/2	210030	8,405	50	400145	8,967	20		400163	12,313	20
6	210031	8,413	25	400146	9,282	20		400164	13,417	20
6 1/2				400147	18,413	20		400165	27,725	10
7				400148	18,783	15		400166	28,499	10
7 1/2				210032	19,519	15		210035	29,591	10
8				400149	20,908	25		400167	30,577	10
8 1/2								210036	41,129	10
9								210037	40,095	10
10								210038	52,464	10

Grey highlighted items are full threaded

- Specifications** : Generally conforming to BS : 2470.
- Threads** : BS Whitworth Fine, Medium as per BS : 84.
- Material** : Unbrako High Grade Alloy Steel.
- Mechanical Properties** : As per BS 2470
- Note** : Upto 4 Inch Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Socket head cap screw UNC, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Head Cap Screw

Inch (BSW)

DIA	3/4" Wrench Key Size 9/16"			7/8" Wrench Key Size 9/16"			1" Wrench Key Size 5/8"			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
1	210039	12,768	50							
1 1/4	400168	12,421	10							
1 1/2	400169	10,955	10	400187	17,643	10	210054	16,538	15	
1 3/4	400170	11,205	10	210043	18,852	10	210055	17,188	15	
2	400171	11,518	10	400188	18,340	10	400194	17,517	10	
2 1/4	400172	11,767	10	404637	20,308	10	404571	19,410	10	
2 1/2	400173	11,767	10	400189	19,757	10	400195	19,410	10	
2 3/4	400174	13,027	10	210044	22,837	10	210056	21,862	10	
3	400175	13,391	10	400190	22,261	10	400196	21,268	10	
3 1/4	400176	13,912	10	701133	25,237	10	210057	23,452	10	
3 1/2	400177	13,534	10	400191	24,551	10	400197	23,452	10	
4	400178	14,588	10	400192	25,903	10	400198	25,905	5	
4 1/2	400179	17,252	10	701136	30,458	10	400199	29,018	5	
5	400180	18,745	10	701137	33,635	10	400200	32,144	5	
5 1/2	701121	21,321	10	210047	35,021	10	183785	33,458	5	
6	400182	23,402	10	400193	38,342	10	400201	37,340	5	
6 1/2	400183	29,914	10	210048	66,566	5	210059	61,431	5	
7	400184	30,608	10	701139	66,566	5	400202	63,641	5	
7 1/2	210040	32,178	10	210050	68,972	5	210060	65,916	5	
8	400185	31,937	10	210051	68,553	5	400203	68,126	5	
8 1/2	210041	38,093	10	210052	74,367	5	210061	74,497	5	
9	400186	38,093	10	210053	74,367	5	210062	76,643	5	
10	701127	42,326	5	551078	84,630	5	210063	85,159	5	

Grey highlighted items are full threaded

- Specifications :** Generally conforming to BS : 2470.
- Threads :** BS Whitworth Fine, Medium as per BS : 84.
- Material :** Unbrako High Grade Alloy Steel.
- Mechanical Properties :** As per BS 2470
- Note :** Upto 4 Inch Dia can be manufactured against request.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Socket head cap screw UNC, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Countersunk Head Cap Screws (CSK)

Metric

DIA	M3 Wrench Key Size 2mm		M4 Wrench Key Size 2.5mm		M5 Wrench Key Size 3mm		M6 Wrench Key Size 4mm		M8 Wrench Key Size 5mm		
	Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
6	106283	794									
8	103303	937	103309	509	103318	753	103325	582			
10	103304	1,007	103311	509	103319	495	103328	587	103336	765	
12	103305	1,080	103312	513	103320	540	103329	571	103337	765	
14					401676	561	401678	624			
16	103306	1,224	103313	580	103321	580	103330	642	103338	744	
18			401675	590	401677	587	401679	665	401681	753	
20	103308	1,368	103315	598	103322	593	103331	686	103340	798	
25	106284	1,513	103316	733	103323	697	103332	782	103341	915	
30	106285	1,830	103317	886	103324	886	103333	900	103342	1,047	
35			220001	1,839	106289	1,180	103334	1,022	103343	1,190	
40			220002	1,968	220005	1,839	103335	1,203	103344	1,395	
45			220003	2,213	220006	2,070	220008	2,142	106297	1,567	
50			220004	2,459	220007	2,298	220009	2,679	220011	2,455	
55							220010	2,946	220012	2,931	
60									220013	3,197	
Qty. Per Box	200										

DIA	M10 Wrench Key Size 6mm		M12 Wrench Key Size 8mm		M16 Wrench Key Size 10mm		M20 Wrench Key Size 12mm		M24 Wrench Key Size 14mm		
	Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
16	103347	1,244									
20	103348	1,069	103353	2,266							
25	103349	1,241	103354	2,266							
30	103350	1,422	103355	2,595	103359	4,877					
35	103351	1,635	103356	2,790	103360	5,256	106328	11,102			
40	103352	1,874	103357	3,009	103361	5,477	106332	11,102			
45	106302	2,109	106311	3,406	106318	6,181	106334	11,910			
50	106303	2,380	103358	3,715	103362	6,210	106335	12,697	220032	20,524	
55	106304	2,931	106312	4,238	106320	7,117	106336	13,476	220033	22,245	
60	220014	3,197	106313	4,568	103363	7,510	106337	14,251	401689	23,964	
65	220015	3,464	220020	5,195	183908	7,903	183912	15,059	220034	25,684	
70	220016	3,730	220021	5,594	106321	8,297	106338	15,867	401690	27,404	
75	220017	4,796	220022	5,995	220025	10,224	183913	17,248	220035	29,124	
80	220018	5,115	220023	6,939	220026	10,686	106339	19,760	401691	30,843	
90	220019	5,755			106325	11,680	106341	20,539	401692	34,284	
100					629621	13,808	106342	25,495	401693	38,984	
110							220029	28,189	701356	43,685	
120							220030	30,880	183179	48,387	
130							220031	33,259	701358	53,088	
Qty. Per Box	100		50		25		10		5		

Quantity per box 25
Quantity per box 200

- Note** : All sizes are fully threaded.
- Specifications** : Generally conforming to IS : 6761, ISO : 10642
- Threads** : ISO Metric, 4g6g as per IS : 4218.
- Material** : UNBRAKO High Grade Alloy Steel.
- Mechanical Properties** : Property Class 12.9 as per IS : 1367, ISO : 898 Part - 1
- Bold black lines are used to indicate quantity per box.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Low Head Cap Screws (LHCS)

Metric

DIA	M4 Wrench Key Size 3mm		M5 Wrench Key Size 4mm		M6 Wrench Key Size 5mm		M8 Wrench Key Size 6mm	
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
Length								
8	106250	1,434	106262	1,429	106263	1,458		
10	106251	1,287	103500	1,426	103508	1,458		
12	106255	1,458	103501	1,495	103509	1,691	103519	2,463
15			400790	2,230	400792	1,691	400791	1,887
16	106256	1,715	103502	1,532	103511	1,691	103520	1,887
20	106257	1,973	103597	1,568	103512	1,715	103521	1,887
25	106260	2,401	103503	1,801	103515	1,813	103525	1,960
30	406185	2,744	103505	2,071	103516	2,058	103526	2,254
35					103517	2,352	103528	2,524
40					103518	2,989	103529	2,806
45					106264	4,165		
Qty. Per Box	200							

DIA	M10 Wrench Key Size 8mm			M12 Wrench Key Size 10mm			M16 Wrench Key Size 12mm			M20 Wrench Key Size 14mm		
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
Length												
16	103532	2,125	200									
20	103533	2,450	200	103549	4,312	100						
25	103534	2,671	200	103550	4,778	100						
30	103535	2,940	200	103551	5,488	100	103562	17,885	25			
35	103536	3,210	200	103552	5,758	100	103563	16,905	25			
40	103538	3,994	100	103553	6,419	50	103564	12,495	25	103578	22,050	25
45	106271	5,023	100				106277	13,720	25			
50	103541	5,464	100	103554	7,718	50	103565	14,700	25	103580	25,725	25
55	106272	6,664	100									
60				103555	9,016	50	103566	17,150	25	103581	29,400	25
90							103574	24,255	25			
100							103575	26,215	25	103599	47,775	25

Grey highlighted items are full threaded

- Specifications** : Generally conforming to Unbrako Specification DIN 7984, ASME B18.3.1M
- Threads** : ISO Metric (Coarse Series) 4g6g.
- Mechanical Properties** : Property Class 10.9 as per IS : 1367, ISO : 898 Part I.
- For sizes beyond those listed, prices on application.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Head Shoulder Screws

Metric

DIA	M6 (M5) Wrench Key Size 3mm			M8 (M6) Wrench Key Size 4mm			M10 (M8) Wrench Key Size 5mm			M12 (M10) Wrench Key Size 4mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	105364	3,874	50										
12	105365	4,203	50	105375	3,867	50							
15	401484	4,854	50	401486	4,829	50	401487	5,919	50	401485	12,851	25	
16	105366	4,854	50	105377	4,985	50	105388	6,088	50	105404	7,912	25	
20	105368	5,506	50	105379	5,595	50	105390	6,763	50	105406	8,705	25	
25	105370	6,322	50	105380	6,360	50	105392	7,612	50	105407	9,702	25	
30	105372	7,138	50	105381	7,127	50	105393	8,456	50	105410	10,698	25	
40	105373	8,419	50	105383	8,656	50	105394	10,144	50	105411	12,689	25	
50				105386	9,505	50	105395	10,654	50	105412	14,190	25	
60							105396	11,261	50	105416	16,115	25	
70							105402	12,684	50	105417	17,121	25	
80							106422	14,091	50	105420	17,900	25	
90										105427	18,115	25	
100										105433	21,352	25	

DIA	M16 (M12) Wrench Key Size 8mm			M20 (M16) Wrench Key Size 10mm			M24 (M20) Wrench Key Size 12mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
30	105434	16,460	25							
40	105435	19,354	25	105441	45,153	10				
50	105436	22,247	25	105442	51,072	10	401488	156,172	5	
60	105437	25,138	25	105444	56,988	10	401489	170,873	5	
70	105438	28,032	25	105448	62,907	10	401490	185,574	5	
80	105440	29,892	25	105449	68,824	10	401491	200,280	5	
90	106343	30,999	25	105450	74,743	10	401492	214,980	5	
100	106344	36,709	25	106347	80,659	10	401493	229,681	5	
120	106346	56,658	25	106348	92,494	10	401494	259,088	5	

- Specifications :** Generally conforming to BS: 4168, DIN 9841, ISO 7379.
- Thread Class :** 4g6g (Precision Ground to h8 tolerance on the Shoulder (Size Indicator Ground Diameter))
- Material :** Unbrako High Grade Alloy Steel.
- Mechanical Properties :** Properties Class conforming to 12.9 as per ISO: 898 Part-I.
- Method of Specifying :** The nominal diameter of a shoulder screw is the diameter of the shoulder & not the thread diameter but it is recommended that both are quoted, e.g. 16mm (M12) x 70mm long to BS 4168.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Set Screws (Grub Screws)





Knurled Cup Point

Metric

DIA	M3 Wrench Key Size 1.5mm		M4 Wrench Key Size 2mm		M5 Wrench Key Size 2.5mm		M6 Wrench Key Size 3mm		M8 Wrench Key Size 4mm	
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
3	104076	316								
4	103172	320	103182	262						
5	103175	324	103185	262	103194	182				
6	103176	312	103186	265	103195	185	103207	193	180002	381
8	103177	317	103187	284	103196	185	103208	210	103224	233
10	103178	334	103188	289	103197	201	103209	236	103227	243
12	103179	355	103189	320	103198	243	103211	271	103228	294
16	103180	467	103191	436	103199	282	103212	347	103229	358
20	551093	491	103193	530	103202	346	103214	375	103230	464
25			701961	574	103203	379	103217	484	103231	574
30			406498	1,046	103204	529	103218	639	103235	671
35			551679	1,392	181179	822	103219	980	103236	898
40			551680	1,790	551094	1,028	103220	1,108	103237	1,063
45							103221	1,179	701998	1,162
50							103222	1,387	103240	1,330
55									551095	2,298
60									551096	2,508
65									551097	2,903
Qty. Per Box	200									

- 1. Specification :** Generally conforming to the following standards
- 2. Threads :** ISO Metric, 4g6g as per IS:4218. ISO 261, ISO 965.
- 3. Material :** Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties :** Property Class 45H as per IS : 1367, ISO:898 Part V.
- 5. NOTE :** PRICE FOR SPECIAL POINTS SHOWN BELOW WILL BE 25% EXTRA.
- 6. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 7. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.**

Orders for sizes with special points will be accepted subject to our confirmation.

				
	FLAT	CONE	DOG / HALF DOG	PLAIN CUP
IS	6094	6094	6094	6094
DIN	913	914	915	916
ISO	ISO-4026	ISO-4027	ISO-4028	ISO-4029



Socket Set Screws (Grub Screws)





Knurled Cup Point

Metric

DIA	M10 Wrench Key Size 5mm		M12 Wrench Key Size 6mm		M16 Wrench Key Size 8mm		M20 Wrench Key Size 10mm	
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
8	180099	425						
10	103241	330	551687	650				
12	103244	384	103256	545				
16	103245	513	103258	652	106352	1,486		
20	103246	632	103259	827	103274	1,496	104149	4,892
25	103247	765	103260	1,135	103276	2,027	103286	5,459
30	103249	1,102	103261	1,311	103277	2,400	103287	6,311
35	103251	1,273	103262	1,780	103278	3,001	103288	7,195
40	103252	1,412	103263	1,975	103279	3,480	103289	8,045
45	103253	1,617	103269	2,193	103281	3,854	103290	8,932
50	103254	1,875	103270	2,394	103282	4,625	103292	9,771
55	551098	3,101	103271	4,134	103283	5,870	103293	11,554
60	183091	3,458	103272	4,643	103284	6,281	103294	12,277
65	551099	3,609	551100	5,791	551102	7,440	551105	13,836
70			551101	6,238	182790	9,470	551106	14,605
75					551103	10,617	551107	15,879
80					551104	11,326	793979	17,580
Qty. Per Box	100				50			

- Specifications** : Generally conforming to the following standards ////. Quantity per box 200
- Threads** : ISO Metric, 4g6g as per IS:4218. ISO 261, ISO 965.
- Material** : Unbrako High Grade Alloy Steel.
- Mechanical Properties** : Property Class 45H as per IS : 1367, ISO:898 Part V.
- NOTE** : PRICE FOR SPECIAL POINT SHOWN BELOW WILL BE 25% EXTRA.
- Bold black lines are used to indicate quantity per box.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Orders for sizes with special points will be accepted subject to our confirmation.

				
	FLAT	CONE	DOG / HALF DOG	PLAIN CUP
IS	6094	6094	6094	6094
DIN	913	914	915	916
ISO	ISO-4026	ISO-4027	ISO-4028	ISO-4029



Socket Set Screws (Grub Screws)

Knurled Cup Point

Inch

DIA	3/16" Wrench Key Size 3/32"		1/4" Wrench Key Size 1/8"		5/16" Wrench Key Size 5/32"		3/8" Wrench Key Size 3/16"		
	Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
3/16	400949	191							
1/4	400951	185	400961	220					
5/16	400952	195	400963	233	400986	233			
3/8	400953	201	400965	243	400977	243	400988	285	
1/2	400954	232	400967	248	400978	253	400989	384	
5/8	551209	261	400969	322	400979	313	400990	454	
3/4	400956	320	400970	490	400980	410	400991	560	
1	400957	453	400972	477	400982	574	400993	684	
1 1/4			400973	555	400984	678	400994	984	
1 1/2			400974	939	400983	1,376	400995	1,745	
1 3/4			551108	1,189	551109	1,470	400996	2,107	
2			180730	1,257	400985	1,740	400997	2,488	
Qty. Per Box	200				100				

DIA	1/2" Wrench Key Size 1/4"		5/8" Wrench Key Size 5/16"		3/4" Wrench Key Size 3/8"		
	Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
1/2	401003	649					
5/8	401005	728	401015	1,719			
3/4	401006	919	401016	1,771	401024	3,925	
1	401008	1,135	401017	2,045	401025	4,726	
1 1/4	401009	1,584	401018	2,656	551110	5,822	
1 1/2	401010	3,677	401019	4,982	401026	8,097	
1 3/4	401012	4,789	401020	6,719	401027	9,533	
2	401013	5,238	401021	6,109	401028	11,215	
2 1/2	401014	6,596	401022	8,902	401029	13,729	
3	702408	8,087	401023	10,806	401030	16,539	
Qty. Per Box	100		50				

- Specifications** : As per standard ASME/ANSI:B18.3.
- Threads** : BS Whitworth, Medium as per BS : 84
- Material** : Unbrako High Grade Alloy Steel.
- Mechanical Properties** : As per BS : 2470.
- NOTE** : **PRICES FOR SPECIAL POINTS 25% EXTRA.**
- Socket set screws with BSF/UNC/UNF threads can also be manufactured subject to MOQ. Price on request.
- Bold black lines are used to indicate quantity per box.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Button Head Socket Screws

Metric

DIA	M3 Wrench Key Size 2mm			M4 Wrench Key Size 2.5mm			M5 Wrench Key Size 3mm			M6 Wrench Key Size 4mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
5	180248	680	200										
6	106353	680	200	180200	492	200	180398	938	200				
8	106354	551	200	106360	492	200	180175	929	200	180249	1,771	200	
10	106357	633	200	106361	492	200	106365	492	200	106372	645	200	
12	106358	704	200	106363	539	200	106366	539	200	106373	657	200	
15				401218	657	200	401219	633	200	401222	750	200	
16	106359	891	200	106364	657	200	106367	633	200	106374	750	200	
18							406269	1,384	200	401223	750	200	
20							106368	750	200	106375	809	200	
22							401220	1,618	200				
25							106369	891	200	106376	844	200	
30							106370	1,008	200	106378	880	200	

DIA	M8 Wrench Key Size 5mm			M10 Wrench Key Size 6mm			M12 Wrench Key Size 8mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	106379	1,079	200							
12	106380	915	200							
15	401226	938	200							
16	106382	938	200	106392	1,876	200	106403	3,166	100	
20	106384	961	200	106393	1,278	200	106404	3,400	100	
25	106385	1,126	200	106396	1,466	200	106405	3,541	100	
30	106386	1,290	200	106399	1,642	200	106406	3,963	100	
35	106389	1,571	200	106401	1,841	200	106407	4,385	100	
40	106390	1,759	200	106402	2,040	100	106408	4,807	50	
50							106413	5,651	50	

- Specifications** : Generally conforming to BS: 4168.
- Thread** : ISO Metric (Coarse Series) 4g6g.
- Material** : Unbrako High Grade Alloy Steel.
- Mechanical Properties** : Properties Class conforming to 12.9 as per BS: 6104, ISO: 898 Part-I.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Flange Button Socket Screws

Metric

DIA	M3 Wrench Key Size 2mm			M4 Wrench Key Size 2.5mm			M5 Wrench Key Size 3mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
6	404977	1,158	200							
8				404982	1,020	200				
10				404983	1,185	200	404988	1,055	200	
12				404984	1,313	200	404989	1,149	200	
16				404986	1,571	200	404991	1,384	200	
20							404992	1,454	200	
25							404994	1,548	200	

DIA	M6 Wrench Key Size 4mm			M8 Wrench Key Size 5mm			M10 Wrench Key Size 6mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	180079	1,513	200	405005	3,213	200				
12	404997	1,489	200	405007	1,454	200				
16	404999	1,747	200	405009	1,688	200	405016	2,931	200	
20	405001	1,996	200	405011	1,899	200	405017	3,283	200	
25	405003	2,310	200	405012	2,193	200	405018	3,729	200	
30	405004	2,626	200	405013	2,486	200	405019	4,186	200	
40				405015	3,049	200				



- 1. Specification :** Generally conforming to Unbrako specification.
- 2. Thread :** ISO Metric (Coarse Series) 4g6g.
- 3. Material :** Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties :** Properties Class conforming to 12.9 as per ISO: 898 Part-I.
- 5. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 6. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.**



Hexagon Wrenches

Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Length	Part No.	₹ Price/ 100 Pcs	Box Qty
1/16	108468	1,065	100	1.5	125648	1,065	100
5/64	110164	1,174	100	2	122263	1,065	100
3/32	110180	1,174	100	2.5	122270	1,065	100
1/8	110213	1,174	100	3	121093	1,174	100
5/32	110246	1,391	100	4	119953	1,843	100
3/16	115915	1,801	100	5	122245	2,248	100
7/32	115948	2,449	50	6	121066	3,200	50
1/4	115981	3,548	50	8	115557	6,027	50
5/16	115997	5,894	25	10	120859	10,058	25
3/8	116013	8,719	25	12	120806	18,922	25
1/2	116046	20,116	10	14	111100	27,832	25
9/16	116063	25,738	10	17	138487	44,018	10
5/8	116080	37,582	10	19	111133	60,743	10
3/4	116096	60,772	10	22	402603	95,739	5
				24	402604	128,723	5
				27	402605	216,706	2
				32	402606	381,102	2

Hex Wrench Sets

STANDARD (METRIC)				
Sets	Wrenches Box Set	Part No.	₹ Price / Set	Box Qty
Standard (Metric)	 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, Set of 9	402616	330	40
STANDARD (INCH)				
Sets	Wrenches Box Set	Part No.	₹ Price / Set	Box Qty
Standard (Inch)	 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", Set of 10	402615	347	40

1. Specifications :

A. Inch Series : BS : 2470 B. Metric Series : IS : 3082, DIN 911.

2. Material : UNBRAKO High Grade Alloy Steel.

3. Mechanical Properties : Hardness : HRC 47 (Min).

4. Plating : No guarantee can given for Unbrako Products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.

5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Dowel Pins

Metric

M2				M3		
DIA	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
8	407831	1,984	40			
10	407832	1,984	40	115001	1,984	40
12	407833	1,984	40	115002	1,984	40
14						
16	407835	1,984	40	115003	1,984	40
18	407836	1,984	40	402118	1,984	40
20	407837	1,984	40	115004	1,984	40
24						
28				402120	1,984	40
30				115007	2,171	40
32				402121	2,171	40
36				406345	2,336	40
40				402124	2,500	40

M4				M5		
DIA	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	115010	2,035	40	402133	2,171	40
12	115011	2,115	40	115021	2,429	40
14				402134	2,429	40
16	115012	2,171	40	115022	2,429	40
18						
20	115015	2,171	40	115024	2,687	40
24	407127	2,171	40	407128	2,687	40
28	402128	2,171	40	402137	2,687	40
30	115017	2,500	40	115026	2,852	40
32				402138	2,852	40
36				406347	3,016	40
40				115028	3,176	40
50	402132	2,500	40	115031	3,176	40

1. **Specifications** : Generally conforming to DIN : 6325.

2. **Material** : Unbrako High Grade Alloy Steel.

Unbrako dowel pins are through hardened and precision ground from nominal to 0.0002" over size on Inch sizes and a surface finish of 0.15 micrometers max. On both Metric and Inch products.

Genuine Unbrako Dowel Pins should only be supplied against these List Prices.

CAUTION: Unbrako advise that correct tools should be used for the application.

Safety goggles should be worn for your security and protection.

3. **Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.



Dowel Pins

Metric

DIA	M6			M8			M10		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
12	402141	2,688	40						
16	115032	2,709	40						
18	402143	2,729	40						
20	115034	2,729	40	115049	4,671	40	115063	5,703	40
24	115037	3,180	40	406349	4,891	40	406351	6,031	40
28	402145	3,527	40	402150	5,323	40			
30	115038	3,532	40	115053	5,323	40	115066	7,007	40
32	402146	3,532	40	402151	5,323	40			
36	406348	3,532	40	406350	5,718	40	406352	7,692	40
40	115043	3,668	40	115055	5,872	40	115070	8,015	40
45				115056	6,036	40	115071	8,723	40
50	115046	3,992	40	115057	6,519	40	402161	9,047	40
55				402153	7,227	40			
60	115047	4,671	40	115058	7,692	40	402163	10,084	40
70							402164	11,059	40
90							402167	13,235	40
100							402169	14,098	40

DIA	M12			M16		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
24	406353	7,692	40			
30	402174	8,888	40			
32				406218	18,099	20
36	406354	9,413	40			
40	402178	10,379	40	406220	18,099	20
50	402180	12,902	40			
60	402182	18,263	40			
70	402183	18,263	40	406225	26,724	20
80	402184	20,758	40	406226	30,439	20
90				406227	31,522	20
100	402186	25,814	40			

1. **Specifications** : Generally conforming to DIN : 6325.

2. **Material** : Unbrako High Grade Alloy Steel.

Unbrako dowel pins are through hardened and precision ground from nominal to 0.0002" over size on Inch sizes and a surface finish of 0.15 micrometers max. On both Metric and Inch products.

Genuine Unbrako Dowel Pins should only be supplied against these List Prices.

CAUTION: Unbrako advise that correct tools should be used for the application.

Safety goggles should be worn for your security and protection.

3. **Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.

Durlok[®] Anti - Vibration Fasteners

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Durlok® Anti – Vibration

Will not loosen or unscrew even under the most severe transverse jarring and vibration.

Effectiveness at elevated temperatures upto 300° C is ensured.

Reusability is guaranteed with locking ability maintained.



Unique head design ensures absence of 'notch-effect' after assembly

Embedding is no greater than with standard types of fasteners.

Closely controlled manufacturing for extra safety and reliability.

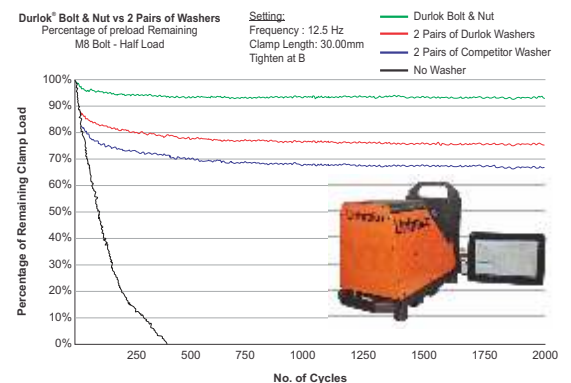
Advantages

During the 1960's, Dr. Junker while working in Unbrako's Koblenz facility in Germany completed his seminal work on the self-loosening behavior of bolted joints. This in turn led to the design of the original Durlok® anti-vibration nuts & bolts. The Durlok 12.9 nuts & bolts are designed for high-performance critical applications and do not require a washer. However, our industrial OEM customers requested a Durlok product in washer form for applications where it was deemed desirable to use a washer in the joint design. Thus we began researching and developed Unbrako's new Durlok locking wedge washer.



The Durlok® washer when used in combination with standard hex helps achieve self-locking properties. It is an anti-vibration solution that not only prevents bolted joint failure, but also enables the bolted joint to retain its pre-load, thus reducing maintenance requirements. The test regime highlighted this feature (fig 1).

Vibration Resistance Testing / Junker Test



Durlok® Applications

Automotive Engines
 Power Unit Accessories
 Transmission Units
 Frames and Chassis Units
 Bodywork
 Vibratory Feeders
 Shaking Chutes, Hoppers

Electrical equipments
 Construction Machinery and Ancillary Equipments
 Agriculture Machinery
 Percussion Drilling Tools & Power Wrenches
 Domestic Appliance





Durlok® Bolts

The Durlok 12.9 nuts & bolts are designed for high-performance critical anti-vibration applications and do not require a washer. **Metric**

DIA	M6			M8			M10			M12		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
12	190540	2,697	200	190570	2,767	200						
16	190560	2,064	200	190590	2,439	200	190620	3,225	200			
20	190160	2,275	200	190210	2,638	200	190270	2,521	200	183640	4,643	100
25	190170	2,533	200	190220	2,908	200	190280	2,744	200	190320	4,760	100
30	190180	2,791	200	190230	3,166	200	190290	2,990	200	190330	4,807	100
35				190600	3,447	200	190630	3,729	200	190660	4,925	100
40				190240	3,705	200	190300	4,010	100	190340	5,300	50
45				408127	4,338	200	190640	4,291	100	190670	5,651	50
50				190610	4,643	100	190310	4,573	100	190350	6,003	50
55										190680	6,355	50
60				407393	5,213	200				190360	7,058	50
70										190700	7,809	50
80										190710	8,536	50

DIA	M14			M16			M20		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
25	190730	9,216	25						
30	190370	9,615	25	190410	20,589	25			
35	190740	10,201	25	190420	20,589	25			
40	190380	10,318	25	190430	20,589	25	190875	34,003	25
45	190750	10,623	25	190820	16,157	25	405793	29,899	25
50	190760	11,256	25	190440	16,603	25			
55				405105	17,470	25			
60	190770	12,100	25	190450	18,690	25	190885	33,534	25
70				190460	20,448	25	190890	35,175	25
80				190855	21,340	25	190900	38,224	25
90				190860	23,051	25	190910	41,272	25
100				190870	24,740	25			

- 1. Specification** : Conforming to Unbrako Standard. (Separate catalogue available on request).
- 2. Thread** : Conforming to DIN 13 Medium Fit (6g)
- 3. Material** : Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties** : Property Class 12.9 as per 898 part-1.
- 5. Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.



Durlok® Nuts

Length	Part No.	₹ Price / 100 Pcs	Box Qty
M6	404916	765	200
M8	404917	1,150	200
M10	405202	1,740	200
M12	404918	3,200	100
M14	405240	4,900	50
M16	404915	5,900	50
M20	403618	12,500	50

1. **Specification:** conforming to Unbrako Standard. 2. **Thread:** According to DIN 13 6H.
3. **Material:** Unbrako High Grade Alloy Steel. 4. **Mechanical Properties:** Property Class 12.

Durlok® Washers



Durlok® Washers are used with standard Hex bolt & nut for self-locking anti-vibration properties.

Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Length	Part No.	₹ Price/ 100 Pcs	Box Qty
M3	551079	1,899	200	M16L	550261	8,611	100
M3.5	551080	1,899	200	M18	550262	8,611	100
M3.5L	551081	1,899	200	M18L	550263	15,196	100
M4	551082	1,899	200	M20	550264	8,611	100
M4L	551083	1,899	200	M20L	550265	15,196	100
M5	551084	1,899	200	M22	550266	11,903	100
M5L	551086	2,026	200	M22L	550267	22,540	100
M6	551087	2,026	200	M24	550268	15,196	100
M6L	551088	2,153	200	M24L	550269	27,352	50
M8	551089	2,153	200	M27	550270	21,907	50
M8L	550253	2,533	200	M27L	550271	27,352	25
M10	550254	2,533	200	M30	550272	23,553	50
M10L	550255	3,799	200	M30L	550273	34,697	25
M12	550256	4,052	200	M33	550274	26,592	25
M12L	550257	5,952	100	M33L	550275	34,697	25
M14	550258	5,952	100	M36	550276	33,304	25
M14L	550259	8,611	100	M39	550277	34,697	25
M16	550260	5,572	100	M42	550278	36,976	25

1. **Note** : L = Larger Outer Dia
: Inch series available on request.
: Stainless Steel prices available on request.
2. **Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.

Hex Head Fasteners 10.9/Gr.8

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Hex Head Bolts / Screws

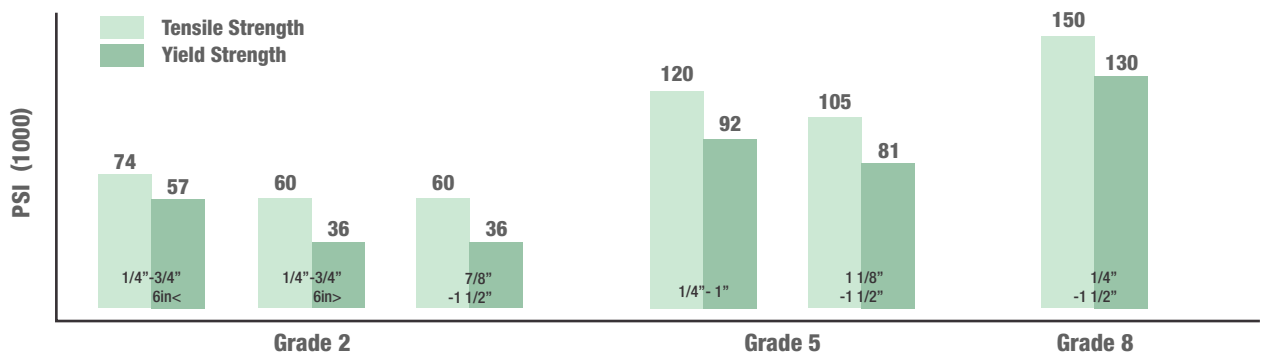
In-house Destructive And Non-destructive Testing:

- Chemical product check analysis
- Heat treatment tests
- Room temprature tension tests (or at 0° C)
- Low temperature impact tests (upto -196° c)
- X-Ray Fluorescence Analysis
- Hardness tests
- UTS test
- Proof load test
- Macrotech tests
- Microtech tests
- Grains size
- Decarburization tests
- Ultra soud testing
- M.P.I tests
- Stress rupture tests

- **ROLLED THREADS** : Rolling threads results in best quality highest -strength thread because of; (1) more accurate and uniform thread dimensions, giving a better fit between threaded parts and fewer concentrated loads at points of misfit; (2) smoother thread surfaces &, thus, fewer scratches and other markings to initiate cracks, or galling; and (3) higher yield, tensile, & shear properties to better withstand service loads.
- **ECONOMY** : Fewer high strength bolts are required than M. S. bolts and rivets. Drilling of close holes is not required. Overall weight the structure will be very light.
- **SIMPLICITY** : A minimum of skill is required in tightening and the operators need only to follow a few simple rules.



Comparison of Different Grades





Hex Head Bolts/Screws

Metric

DIA	M4			M5			M6			M8		
	Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.
10	170001	253	500	170013	268	500	170029	347	500			
12	170002	262	500	170014	272	500	170030	366	500	170049	529	500
16	170003	430	500	170015	429	500	170031	379	500	170050	536	200
18	170004	430	500	170016	440	500	170032	384	500	170051	483	200
20	170005	372	500	170017	354	500	170033	379	500	170052	483	200
22	170006	378	500	170018	377	500	170034	390	500	170053	547	200
25	170007	378	500	170019	372	500	170035	392	500	170054	530	200
30	170008	377	500	170020	401	500	170036	410	500	170055	593	200
35	170009	387	500	170021	406	500	170037	439	200	170056	695	200
40	170010	411	500	170022	430	500	170038	461	200	170057	737	200
45	170011	463	500	170023	470	500	170039	490	200	170058	797	200
50	170012	514	500	170024	565	500	170040	524	200	170059	867	200
55	240001	565	500	170025	595	500	170041	576	200	170060	950	100
60	240002	617	500	170026	649	200	170042	630	200	170061	1,072	100
65				170027	737	200	170043	683	100	170062	1,107	100
70				170028	795	200	170044	736	100	170063	1,194	100
75				240003	852	200	170045	742	100	170064	1,232	100
80							170046	782	100	170065	1,277	100
90							170047	881	100	170066	1,650	100
100							170048	979	100	170067	1,988	50
110							551178	1,507	100	240010	2,802	50
120							550866	1,638	100	240011	3,091	50
130							550867	1,765	100	240012	3,383	50
140							550868	1,894	100	550872	3,744	50
150							550869	2,023	100	550873	3,983	50
160										787951	4,212	50
170										787952	4,430	50
180										787953	4,680	50
190										787954	4,898	50
200										787955	5,127	50

Grey highlighted items are full threaded

- Specifications** : Generally conforming to IS : 1364, ISO : 4014/4017.
- Threads** : ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties** : Property Class 10.9 as per IS : 1367.
- Note** : Prices for fully threaded screws beyond shaded sizes will cost 10% extra.
- Orders for Property class 8.8 can be accepted subject to our confirmation on the basis of item wise quantities.
Price list for 8.8 available separately.
- Upto 80MM Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Bolts/Screws as per DIN931/933 will be manufactured against specific order with minimum order quantity of each size.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Metric

DIA	M10			M12			M14			M16			
	Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
16	170068	905	200										
18	170069	899	200										
20	170070	849	200	170093	1,393	100					170142	3,150	50
22	170071	934	200								170143	3,150	50
25	170072	917	200	170094	1,513	100	170121	2,406	50		170144	3,173	25
30	170073	990	100	170095	1,502	100	170122	2,593	50		170145	3,477	25
35	170074	1,041	100	170096	1,585	100	170123	2,697	25		170146	3,477	25
40	170075	1,264	100	170097	1,805	100	170124	2,885	25		170147	3,441	25
45	170076	1,466	100	170098	2,002	50	170125	3,115	25		170148	3,649	25
50	170077	1,502	100	170099	2,141	50	170126	3,453	25		170149	3,920	25
55	170078	1,564	100	170100	2,296	50	170127	3,530	25		170150	4,357	25
60	170079	1,717	100	170101	2,394	50	170128	3,688	25		170151	4,596	25
65	170080	1,810	50	170102	2,503	50	170129	3,891	25		170152	4,713	25
70	170081	1,903	50	170103	2,830	50	170130	4,127	25		170153	5,029	25
75	170082	2,034	50	170104	2,932	50	170131	4,328	25		170154	5,393	25
80	170083	2,341	50	170105	3,110	50	170132	4,582	25		170155	6,190	25
90	170084	2,595	50	170106	3,350	25	170133	5,020	25		170156	6,613	25
100	170085	2,983	50	170107	3,914	25	170134	5,777	25		170157	6,864	15
110	170086	3,444	50	170108	4,275	25	170135	6,280	25		170158	7,614	15
120	170087	3,749	25	170109	4,530	25	170136	6,973	25		170159	8,698	15
130	170088	4,211	50	170110	4,789	25	170137	7,548	25		170160	10,228	15
140	170089	4,672	50	170111	5,682	25	170138	9,774	25		170161	10,368	15
150	170090	5,006	30	170112	7,592	25	170139	10,788	25		170162	11,800	15
160	170091	5,337	25	170113	7,959	20	170140	12,047	25		170163	12,816	15
180	170092	6,005	25	170114	8,652	20	170141	12,924	25		170164	14,414	15
200	550876	6,673	25	170115	11,434	25	550887	14,360	25		170165	15,603	10
220				170116	16,442	25	550888	19,600	20		170166	20,168	10
240				170117	16,848	20	550889	21,200	20		170167	21,705	10
260				170118	17,210	20	550890	22,800	20		170168	22,144	10
280				170119	18,794	18	550891	24,550	18		170169	24,447	10
300				170120	20,136	18	550892	26,200	18		170170	31,425	10

Grey highlighted items are full threaded

- Specifications :** Generally conforming to IS : 1364, ISO : 4014/4017.
- Threads :** ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties :** Property Class 10.9 as per IS : 1367.
- Note :** Prices for fully threaded screws beyond shaded sizes will cost 10% extra.
- Orders for Property class 8.8 can be accepted subject to our confirmation on the basis of item wise quantities.
Price list for 8.8 available separately.
- Upto 80MM Dia can be manufactured against request.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Bolts/Screws as per DIN931/933 will be manufactured against specific order with minimum order quantity of each size.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Metric

DIA	M18			M20			M22		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
35	550735	5,745	25	170190	6,915	25			
40	170171	6,178	25	170191	6,915	25	550775	9,370	10
45	170172	6,439	25	170192	7,244	25	550776	9,950	10
50	170173	6,638	25	170193	7,192	25	170215	10,254	10
55	170174	7,092	25	170194	8,168	25	170216	11,043	10
60	170175	7,314	25	170195	8,283	25	170217	11,405	10
65	170176	7,561	25	170196	8,384	10	170218	12,213	10
70	170177	8,259	25	170197	8,484	10	170219	12,637	10
75	170178	8,741	10	170198	9,413	10	170220	13,072	10
80	170179	8,758	10	170199	9,691	10	170221	13,603	10
90	170180	9,304	10	170200	10,298	10	170222	14,489	10
100	170181	10,308	10	170201	10,967	10	170223	15,454	10
110	170182	10,867	10	170202	12,344	10	170224	16,823	10
120	170183	11,992	10	170203	13,140	10	170225	17,982	10
130	170184	12,539	10	170204	14,298	10	170226	18,948	10
140	170185	13,087	10	170205	15,258	10	170227	19,896	10
150	170186	14,014	10	170206	14,996	10	170228	20,831	10
160	170187	15,092	10	170207	17,854	10	170229	23,762	5
180	170188	16,743	10	170208	20,904	10	170230	25,806	5
200	170189	18,090	10	170209	22,528	10	170231	27,881	5
220	240020	19,898	10	170210	31,255	5	170232	42,826	5
240	240021	21,709	10	170211	32,822	5	170233	46,391	5
260	240022	23,519	10	170212	34,391	6	170234	48,174	5
280	240023	25,328	8	170213	37,518		170235	53,544	5
300	240024	27,137	8	170214	40,629		170236	57,370	5

Grey highlighted items are full threaded

- Specifications** : Generally conforming to IS : 1364, ISO : 4014/4017.
- Threads** : ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties** : Property Class 10.9 as per IS : 1367.
- Note** : Prices for fully threaded screws beyond shaded sizes will cost 10% extra.
- Orders for Property class 8.8 can be accepted subject to our confirmation on the basis of item wise quantities.
Price list for 8.8 available separately.
- Upto 80MM Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Bolts/Screws as per DIN931/933 will be manufactured against specific order with minimum order quantity of each size.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Metric

DIA	M24			M27			M30		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
50	170237	12,927	10	170259	25,914	5	170281	34,350	5
55	170238	12,370	10	170260	25,914	5	170282	34,350	5
60	170239	13,458	10	170261	25,914	5	170283	34,350	5
65	170240	13,926	10	170262	25,914	5	170284	34,350	5
70	170241	14,762	10	170263	25,914	5	170285	34,350	5
75	170242	15,293	10	170264	27,868	5	170286	34,350	5
80	170243	16,722	10	170265	29,162	5	170287	35,747	5
90	170244	17,857	10	170266	31,749	5	170288	38,803	5
100	170245	19,314	10	170267	34,350	5	170289	41,758	5
110	170246	20,187	5	170268	37,041	5	170290	45,933	5
120	170247	21,186	10	170269	37,980	5	170291	46,948	5
130	170248	22,344	5	170270	39,230	5	170292	49,062	5
140	170249	23,407	5	170271	41,714	5	170293	52,105	5
150	170250	24,550	5	170272	44,198	5	170294	55,031	3
160	170251	29,316	5	170273	48,813	5	170295	62,262	3
170	240025	30,594	5	550941	51,407	5	550947	65,405	3
180	170252	31,874	5	170274	54,002	5	170296	68,568	3
190	240026	33,130	5						
200	170253	34,386	5	170275	58,822	5	170297	74,800	5
220	170254	49,296	5	170276	81,062	4	170298	90,248	3
240	170255	51,063	5	170277	87,410	4	170299	96,598	3
260	170256	52,830	4	170278	93,143	3	170300	102,961	3
280	170257	58,101	4	170279	98,861	3	170301	109,311	2
300	170258	71,028	4	170280	103,499	3	170302	115,647	2

Grey highlighted items are full threaded

- Specifications :** Generally conforming to IS : 1364, ISO : 4014/4017.
- Threads :** ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties :** Property Class 10.9 as per IS : 1367.
- Note :** Prices for fully threaded screws beyond shaded sizes will cost 10% extra.
- Orders for Property class 8.8 can be accepted subject to our confirmation on the basis of item wise quantities.
Price list for 8.8 available separately.
- Upto 80MM Dia can be manufactured against request.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Bolts/Screws as per DIN931/933 will be manufactured against specific order with minimum order quantity of each size.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Metric

DIA	M33			M36			M42			M48			
	Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
75	170303	47,152	5	550846	58,520	5	631194	85,785	4				
80	170304	49,857	5	170320	59,646	5	550858	88,850	3				
90	170305	52,884	5	170321	64,188	3	170336	94,128	3				
100	170306	56,633	5	170322	66,774	3	170337	99,537	2	787845	138,424	2	
110	170307	60,895	4	170323	71,316	4	170338	104,977	2	787846	146,032	2	
120	170308	62,350	4	170324	72,698	3	170339	105,785	2	787847	146,890	2	
130	170309	65,702	4	170325	76,506	3	170340	110,252	10	787848	153,010	2	
140	170310	69,774	4	170326	80,870	3	170341	116,388	10	550980	170,926	2	
150	170311	73,771	4	170327	85,206	3	170342	122,510	9	787849	178,661	2	
160	170312	77,210	4	170328	93,628	3	170343	128,640	9	787850	186,450	2	
180	170313	84,545	3	170329	108,576	2	170344	140,325	8	550981	201,973	2	
200	170314	91,967	3	170330	117,690	2	170345	146,674	7	550982	209,312	2	
220	170315	111,224	3	170331	141,105	2	170346	188,138	7	550983	266,059	2	
240	170316	119,424	2	170332	151,268	9	170347	202,102	6	550984	283,788	2	
260	170317	128,376	2	170333	161,418	8	170348	216,109	6	787851	301,517	2	
280	170318	137,282	2	170334	171,589	8	170349	230,089	6	551123	319,245	2	
300	170319	146,176	2	170335	205,981	7	170350	244,059	6	787852	336,974	2	

Grey highlighted items are full threaded

- Specifications** : Generally conforming to IS : 1364, ISO : 4014/4017.
- Threads** : ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties** : Property Class 10.9 as per IS : 1367.
- Note** : Prices for fully threaded screws beyond shaded sizes will cost 10% extra.
- Orders for Property class 8.8 can be accepted subject to our confirmation on the basis of item wise quantities.
Price list for 8.8 available separately.
- Upto 80MM Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Bolts/Screws as per DIN931/933 will be manufactured against specific order with minimum order quantity of each size.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Important * long delivery items-subject to extended deliveries (3 to 4 months). Users are advised to plan their requirements in advance.



Hex Head Bolts/Screws

Inch(UNC)

DIA	1/4			5/16			3/8			1/2		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
1/2	170351	415	500	170364	553	500	170381	891	200			
5/8	170352	515	500	170365	530	500	170382	891	200			
3/4	170353	468	500	170366	510	200	170383	777	200	170400	1,673	100
7/8	170354	422	500	170367	558	200	170384	938	200	170401	1,660	100
1	170355	461	200	170368	555	200	170385	766	200	170402	1,763	100
1 1/4	170356	472	200	170369	611	200	170386	856	200	170403	1,966	100
1 1/2	170357	522	200	170370	744	200	170387	967	100	170404	2,098	50
1 3/4	170358	572	200	170371	834	200	170388	1,129	100	170405	2,256	25
2	170359	628	200	170372	888	200	170389	1,239	100	170406	2,455	25
2 1/4	170360	690	200	170373	977	100	170390	1,358	100	170407	2,711	25
2 1/2	170361	768	200	170374	1,072	100	170391	1,490	100	170408	2,887	25
2 3/4	170362	844	200	170375	1,159	100	170392	1,660	100	170409	3,125	25
3	170363	922	200	170376	1,220	100	170393	1,759	100	170410	3,506	25
3 1/4	240027	1,063	200	170377	1,301	100	170394	1,945	50	170411	3,760	25
3 1/2	240028	1,075	200	170378	1,402	100	170395	1,999	50	170412	3,889	25
3 3/4	240029	1,147	100	170379	1,731	100	170396	2,450	25	170413	4,092	25
4	240030	1,230	100	170380	1,912	100	170397	2,634	25	170414	4,263	25
4 1/4				551064	2,040	100	170398	2,929	25	170415	4,527	25
4 1/2	787956	1,370	100	551065	2,151	100	170399	3,100	25	170416	4,932	25
5	551063	1,515	100	551066	2,390	100	240034	3,444	50	170417	5,387	25
5 1/2				787957	2,610	100	240035	3,789	50	170418	6,577	25
6				787958	2,830	100	240036	4,133	50	170419	7,985	25
6 1/2										240037	9,809	25
7										170420	11,997	20
7 1/2										170421	12,858	25
8										170422	13,714	25

Grey highlighted items are full threaded

- Specifications** : Generally conforming to ANSI B 18.2.1
- Threads** : Unified Coarse, 2A as per ANSI B1.1.
- Material & Mechanical Properties** : Grade 8 as per SAE J 429
- Note** : Non-shaded sizes if required in full thread will cost 10% extra.
: Upto 4 Inch Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Hex Bolt/Screws BSW, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Inch(UNC)

DIA	5/8			3/4			7/8			1		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
1	170423	3,080	25									
1 1/4	170424	3,438	25	551032	5,950	25						
1 1/2	170425	3,607	25	170445	6,330	25	551044	13,720	10	170487	13,830	10
1 3/4	170426	3,848	25	170446	6,570	25	787988	15,070	10	170488	13,830	10
2	170427	4,042	25	170447	7,000	25	170467	16,551	10	170489	14,537	10
2 1/4	170428	4,401	25	170448	7,688	25	170468	16,551	10	170490	15,101	10
2 1/2	170429	4,816	25	170449	8,065	25	170469	13,345	10	170491	15,793	10
2 3/4	170430	5,205	25	170450	8,798	10	170470	13,345	10	170492	16,839	10
3	170431	5,610	25	170451	9,144	10	170471	13,981	10	170493	18,443	10
3 1/4	170432	5,974	25	170452	9,545	10	170472	15,419	10	170494	19,157	10
3 1/2	170433	6,328	25	170453	10,318	10	170473	15,419	10	170495	19,963	10
3 3/4	170434	6,999	25	170454	11,075	10	170474	16,542	10	170496	21,974	10
4	170435	7,184	25	170455	11,588	10	170475	17,331	10	170497	21,974	10
4 1/4	170436	7,435	25	170456	11,873	10	170476	18,373	10	170498	24,228	10
4 1/2	170437	7,712	25	170457	12,422	10	170477	19,248	10	170499	24,228	5
5	170438	8,681	25	170458	13,214	10	170478	20,711	10	170500	27,034	5
5 1/2	170439	9,987	20	170459	14,839	10	170479	21,819	10	170501	29,219	5
6	170440	10,469	10	170460	15,234	10	170480	23,159	10	170502	30,571	5
6 1/2	170441	12,214	10	170461	16,462	10	170481	24,440	5	170503	33,153	5
7	170442	13,154	10	170462	16,462	10	170482	26,978	5	170504	35,733	5
7 1/2	170443	14,093	10	170463	17,688	10	170483	28,373	5	170505	38,234	5
8	170444	14,350	10	170464	19,382	10	170484	29,624	5	170506	40,004	5
9	551069	16,144	10	170465	20,263	10	170485	33,661	5	170507	44,989	5
10	551070	17,939	10	170466	22,797	8	170486	35,220	5	170508	49,333	4
11				240038	24,230	8				170509	51,801	4
12				551222	26,432	8				170510	56,509	4

Grey highlighted items are full threaded

- Specifications** : Generally conforming to ANSI B 18.2.1
- Threads** : Unified Coarse, 2A as per ANSI B1.1.
- Material & Mechanical Properties** : Grade 8 as per SAE J 429
- Note** : Non-shaded sizes if required in full thread will cost 10% extra.
: Upto 4 Inch Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Hex Bolt/Screws BSW, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Inch(UNC)

DIA	1 1/8			1 1/4			1 3/8		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
1	170511	15,534	5						
1 1/4	170512	16,847	5						
1 1/2	170513	18,384	10						
1 3/4	170514	19,007	10						
2	170515	20,467	10						
2 1/4	170516	21,936	5	551302	29,020	5			
2 1/2	170517	23,189	5	170534	30,710	5	170551	37,186	5
2 3/4	170518	24,440	5	170535	32,169	5	170552	38,854	5
3	170519	25,900	5	551062	33,629	5	170553	40,736	5
3 1/4	170520	27,368	5	170537	35,512	5	170554	43,033	5
3 1/2	170521	28,619	5	170538	37,186	5	170555	45,124	5
3 3/4	170522	30,079	5	170539	39,062	5	170556	47,421	5
4	170523	31,539	5	170540	40,736	4	170557	49,510	5
4 1/4	170524	33,006	5	170541	42,404	5	170558	51,808	4
4 1/2	170525	34,467	5	170542	44,286	4	170559	53,898	4
5	170526	37,186	5	170543	47,836	5	170560	58,286	4
5 1/2	170527	40,107	5	170544	51,178	3	170561	62,672	3
6	170528	42,826	5	170545	54,735	4	170562	67,060	3
7	170529	48,466	3	170546	61,627	3	170563	75,627	3
7 1/2	170530	51,178	5	170547	64,970	3	170564	80,014	3
8	170531	54,105	3	170548	68,519	3	170565	84,401	3
9	170532	75,627	4	170549	75,627	3	170566	93,174	2
10	170533	65,385	3	170550	82,517	3	170567	101,949	2

Grey highlighted items are full threaded

- Specifications :** Generally conforming to ANSI B 18.2.1
- Threads :** Unified Coarse, 2A as per ANSI B1.1.
- Material & Mechanical Properties :** Grade 8 as per SAE J 429
- Note :** Non-shaded sizes if required in full thread will cost 10% extra.
: Upto 4 Inch Dia can be manufactured against request.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Hex Bolt/Screws BSW, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Head Bolts/Screws

Inch(UNC)

DIA	1 1/2			1 3/4			2		
Length	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty	Part No.	₹ Price/ 100 Pcs.	Box Qty
2 1/2	170568	46,791	5	170585	75,568	3	170602	105,794	2
2 3/4	170569	49,089	5	170586	78,768	3	170603	110,140	2
3	170570	51,393	5	170587	81,978	3	170604	114,266	2
3 1/4	170571	53,476	4	170588	85,413	2	170605	118,612	2
3 1/2	170572	56,195	4	170589	88,613	2	170606	122,966	2
3 3/4	170573	58,701	4	170590	92,049	2	170607	127,320	2
4	170574	61,419	3	170591	95,948	2	170608	131,666	2
4 1/4	170575	63,925	3	170592	99,839	2	170609	136,021	2
4 1/2	170576	66,643	3	170593	103,730	2	170610	141,056	2
5	170577	71,861	3	170594	111,520	2	170611	151,365	2
5 1/2	170578	77,086	3	170595	119,303	2	170612	161,437	2
6	170579	82,311	2	170596	127,093	2	170613	171,745	2
7	170580	92,337	2	170597	142,201	2	170614	191,207	2
7 1/2	170581	97,561	3	170598	149,756	2	170615	201,516	2
8	170582	102,785	2	170599	157,772	2	170616	211,815	2
9	170583	113,228	2	170600	173,345	2	170617	231,968	2
10	170584	123,677	2	170601	188,917	2	170618	252,576	2

Grey highlighted items are full threaded

- Specifications** : Generally conforming to ANSI B 18.2.1
- Threads** : Unified Coarse, 2A as per ANSI B1.1.
- Material & Mechanical Properties** : Grade 8 as per SAE J 429
- Note** : Non-shaded sizes if required in full thread will cost 10% extra.
: Upto 4 Inch Dia can be manufactured against request.
- Plating** : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- For Hex Bolt/Screws BSW, above prices will apply.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Nuts

Size (mm)	Grade	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M4 X 0.7	8	793230	80	1000	18000
M5 X 0.8	8	793201	100	700	12600
M6 X 1	8	550303	135	500	9000
M8 X 1.25	8	550304	184	200	2400
M10 X 1.5	8	550305	356	200	2400
M12 X 1.75	8	550306	580	200	1600
M16 X 2	8	550307	1,155	100	800
M6 X 1	10	170619	161	500	9000
M8 X 1.25	10	170620	210	200	2400
M10 X 1.5	10	170621	407	200	2400
(M12) X 1.5	10	170623	917	200	2400
M12 X 1.75	10	170622	917	200	2400
(M14) X 1.5	10	170625	1,064	100	800
M14 X 2	10	170626	1,064	100	800
M16 X 2	10	170627	1,393	100	800
(M18) X1.5	10	170629	2,092	100	600
M18 X 2.5	10	170630	2,092	100	600
(M20)X 1.5	10	170631	2,678	50	300
M20 X 2.5	10	170632	2,678	50	300
M22 X 2.5	10	170633	3,077	50	200
M24 X 3	10	170634	4,603	50	200
M27 X 3	10	170635	7,433	25	150
M30 X 3.5	10	170636	10,703	25	150
M33 X 3.5	10	170637	14,724	10	80
M36 X 4	10	170638	19,007	10	80
M39 X 4	10	170639	25,925	10	40
M42 X 4.5	10	170640	31,844	10	40
M45 X 4.5	10	170641	38,043	10	40
M48 X 5	10	170642	45,833	10	40
M52 X 5	10	170643	54,265	4	16
M56 X 5.5	10	170644	70,141	4	16
M60 X 5.5	10	550301	131,512	3	12
M64 X 6	10	170645	140,280	3	12
M72 X 6	10	550302	251,160	2	8

- Specifications :** Nuts with Metric Threads IS : 1364, ISO 4032
- Threads :** ISO Metric 6H as per is : 4218, ISO 261, ISO 965.
- Material Mechanical Properties :** Property Class as tabulated as per IS : 1367, ISO 898, Part-II.
- Note :** Size in brackets are non-preferred standards.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Nuts as per DIN934 will be manufactured against specific order with minimum order quantity of each size
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hex Nuts

Size (mm)	Grade	Part No	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
1/4	8	170646	148	500	9000
5/16	8	170647	204	500	9000
3/8	8	170648	293	200	2400
7/16	8	170658	670	200	1600
1/2	8	170649	670	200	1600
5/8	8	170650	1,393	200	1600
3/4	8	170651	2,455	50	400
7/8	8	170652	3,309	50	200
1	8	170653	5,200	50	200
1-1/8	8	170654	7,344	25	150
1-1/4	8	170655	10,417	25	100
1-3/8	8	170656	13,305	25	100
1-1/2	8	170657	18,094	10	40

- 1. Specifications :** For Nuts with UNC Threads : (ANSI B 18.2.2).
- 2. Threads :** Unified Coarse, 2B As Per ANSI B1.1.
- 3. Material Mechanical Properties :** Grade as tabulated as per SAE J 995.
- 4. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.

Nylock Nut (ISO 7040 Grade-8) Blue Ring

(Duly White Zinc Plated)

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M6	630448	169	500	9000
M8	630449	303	200	2400
M10	630450	669	200	2400
M12	630451	958	200	2400
M12X1.5	630452	1,016	200	2400
M14	630453	1,558	100	800
M16	630454	2,015	100	800
M16X1.5	630455	2,063	100	800
M20	630456	4,090	50	300
M20X.5	630457	4,376	50	300





Nylock Nut (ISO 7040 Grade-10) Blue Ring

(Duly White Zinc Plated)

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M10	630458	773	200	2400
M12	630459	1,116	200	2400
M16	630460	2,308	100	800
M16 X1.5	630461	2,401	100	800
M20	630462	4,339	50	300
M24	630463	9,656	50	200



Nylock Nut (Din 985, (ISO 10511 Grade-8) Blue Ring

(Duly White Zinc Plated)

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M6	290001	117	500	9000
M8	290002	232	200	2400
M1	290003	505	200	2400
M12	290004	739	200	2400
M12 X1.5	290005	793	200	2400
M14	290006	1,214	100	800
M16	560957	1,634	100	800
M16X1.5	630379	1,673	100	800
M20	630380	3,526	50	300
M20 X1.5	630381	3,773	50	300



Nylock Nut (Din 985, (ISO 10511 Grade-10) Blue Ring

(Duly White Zinc Plated)

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M10	630305	597	200	2400
M12	630306	882	200	2400
M16	290007	1,881	100	800
M16 X 1.5	290008	1,944	100	800
M20	290009	3,745	50	300
M24	290010	7,614	50	200



1. Plating : No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.



Spring Washer - Square Section

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton	Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
3MM	171758	12	2000	160000	18MM	171767	194	100	2400
4MM	171759	15	2000	90000	20MM	171768	359	100	1500
5MM	171760	18	2000	48000	22MM	171769	402	50	1000
6MM	171761	20	1000	30000	24MM	171770	535	50	1200
8MM	171762	34	1000	24000	27MM	171771	613	50	700
10MM	171763	59	500	12000	30MM	171772	948	50	500
12MM	171764	70	500	7000	33MM	171773	1,116	25	400
14MM	171765	117	200	4800	36MM	171774	1,623	25	350
16MM	171766	176	100	3000	39MM	171775	1,756	25	250



1. **Specifications** : Generally conforming to IS : 6735/1972 & DIN 7980

Spring Washer - Flat Section

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton	Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
3MM	171776	12	2000	140000	18MM	171785	312	100	1800
4MM	171777	14	2000	120000	20MM	171786	446	100	1400
5MM	171778	19	2000	60000	22MM	171787	506	50	800
6MM	171779	33	1000	32000	24MM	171788	755	50	700
8MM	171780	53	1000	14000	27MM	171789	841	50	700
10MM	171781	77	500	7000	30MM	171790	1,359	50	500
12MM	171782	115	500	5000	33MM	171791	2,173	25	200
14MM	171783	178	200	3200	36MM	171792	2,276	25	350
16MM	171784	269	100	3000	39MM	171793	2,389	25	250



1. **Specifications** : Generally conforming to DIN 127, IS 3063 & BS 4464

Unbrako Hardened Washer for 10.9 Bolts

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M12	551111	431	500	4000
M16	551112	754	200	1600
M20	551113	1,143	100	800
M22	631368	1,378	100	800
M24	551114	1,612	100	600
M27	630476	2,704	100	400
M30	630477	3,380	100	400



1. **Specifications** : Generally conforming to 300HV - 370HV. For Unbrako Hardened Washer 10.9 Bolts
2. **Plating** : No guarantee can be given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
3. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Hexagon Weld Nut

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M6	136004	123	500	9000
M8	136001	235	200	2400
M10	136002	432	200	2400
M12	136003	615	200	1600

- 1. Specifications :** Generally conforming to DIN 929. Grade 6
- 2. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 3.** Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.
- 4.** No head marking.

Construction Fasteners CE Approved

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Construction Fasteners

Arc Welding Stud

*Prices available on request.



The UNBRAKO ARC Welding Stud also known as Shear Connector is used in the construction of tall buildings, bridges and steel structures. Drawn-arc process is used for stud welding. It improves the strength of the structure.

Product Range :
Metric: M13, M16, M19, M22, M25 – Any Length

Inch: 1/2", 5/8", 3/4", 7/8", 1" – Any Length

Direct Tension Indicator



UNBRAKO Direct Tension Indicators, also known as Auto Torque Indicators, are single-use mechanical load cells designed to indicate the magnitude of preload in the assembly. It shows if the bolt is properly tensioned, very useful while tensioning High Strength Structural Bolts.

Product Range :
Metric: M16 – M36 as per BS EN 14399-9

Unbrako Feeler Gauge is available to check if the required torque is achieved.

High Strength Structural Bolt Assembly



Compared to the conventional methods of riveting or welding, UNBRAKO Pre-load bolts maintain the permanent strength of the joint due to reduced stress concentration. Hence, it does not permit loosening, making it most ideal where vibration is involved.

Product Range :
Metric: M12 to M36
Any Length

As per BS EN 15048-1/2 & 14399-3/4 or as per IS 3757

Auto Torque Check Bolt Assembly



Unbrako
Electric
Shear Wrench

UNBRAKO Auto Torque Check Bolt Is an easy to install Heavy Duty Bolt used in Steel Frame Construction. It has its own built-in torque control device. The outer socket of wrench rotates the nut until the torque control groove in the spline shears off on achieving proper bolt tension.

Product Range :
Metric: M12 – M30 (any length) – As Per BS EN 14399 - 10

Unbrako Electric Shear Wrench is also Available.

Rebar Coupler

The Rebar COUPLER system is a threaded connection of two bars through a threaded sleeve that guarantees an ultimate tensile strength of the splice (joint) greater than that of the parent bar. It is suitable for joining reinforcement bars end to end.



Total Solution Bolt Assembly Tamper Proof



The Innovative 6 wedge shaped design acts to convert radial force into axial force, increasing pressure onto the contact surface of the application. Even under extreme vibration, bolt does not loosen.



High Strength Structural Bolts

Metric

DIA	M16			M20			M22		
	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity
40	300001	4,068	25	300021	7,519	25			
45	300002	4,431	25	300022	8,091	25			
50	300003	4,662	25	300023	8,461	25	300041	11,475	10
55	300004	4,814	25	300024	8,836	25	300042	11,801	10
60	300005	5,134	25	300025	9,443	20	300043	12,284	10
65	300006	5,415	25	300026	9,858	20	300044	13,408	10
70	300007	5,722	25	300027	10,211	10	300045	14,046	10
75	300008	6,125	25	300028	10,600	10	300046	14,484	10
80	300009	6,726	25	300029	10,900	10	300047	14,994	10
90	300010	7,053	25	300030	11,585	10	300048	16,485	10
100	300011	7,651	25	300031	12,253	10	300049	16,859	10
110	300012	8,263	25	300032	12,728	10	300050	18,199	10
120	300013	9,112	15	300033	13,806	10	300051	19,403	10
130	300014	10,462	10	300034	14,847	10	300052	20,486	10
140	300015	10,629	10	300035	15,306	10	300053	21,423	10
150	300016	12,603	10	300036	16,131	10	300054	22,464	10
160	300017	13,640	10	300037	19,214	10	300055	25,490	5
170	300018	14,484	10	300038	20,027	10	300056	26,560	5
180	300019	15,329	10	300039	20,844	10	300057	27,626	5
200	300020	17,290	10	300040	23,376	10	300058	29,697	5

- Specifications :** Bolts IS : 3757.
- Threads :** Bolts ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties :**
Bolts: Property Class 10.9S as per IS : 1367.
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



High Strength Structural Bolts

Metric

DIA	M24			M27			M30			M36		
	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity
55	300059	14,944	10									
60	300060	15,472	10	300076	31,505	5						
65	300061	16,758	10	300077	32,978	5						
70	300062	17,016	10	300078	32,755	5						
75	300063	18,509	10	300079	35,005	5	300092	42,280	5			
80	300064	18,867	10	300080	36,578	5	300093	43,778	5			
90	300065	20,847	5	300081	38,862	5	300094	44,987	5			
100	300066	22,392	5	300082	41,723	5	300095	48,242	5			
110	300067	22,940	5	300083	43,439	5	300096	52,515	5			
120	300068	23,839	5	300084	44,648	5	300097	53,534	5	581151	94,640	5
130	300069	24,874	5	300085	45,926	5	300098	56,106	5	581153	100,048	4
140	300070	25,942	5	300086	48,688	5	300099	59,431	5	581155	105,300	4
150	300071	27,114	5	300087	51,420	5	300100	62,637	5	581157	110,760	4
160	300072	30,810	5	300088	56,635	5	300101	70,731	4	581159	115,960	4
170	300073	33,394	5	300089	62,500	5	300102	77,755	4	581161	121,160	4
180	300074	34,902	5	300090	62,362	5	300103	77,630	4	581163	126,568	4
200	300075	37,498	5	300091	67,677	5	300104	84,453	4	581167	136,760	3
220							581122	91,278	3	581171	147,160	3
240							581126	98,102	3	581175	157,560	3
260							581130	104,927	3	581179	168,480	3
280										581183	178,880	3
300										581186	189,280	3

High Strength Structural Nuts

Metric

Diameter	M16	M20	M22	M24	M27	M30	M36
International Part No.	131001	131002	131003	131004	131005	131006	581348
₹ Price/100 Pcs	1,988	4,026	4,700	6,745	10,912	13,811	23,816
Box Quantity	100	50	50	25	10	10	10

Hardened & Tempered Washer (Type A)

Metric

Diameter	M16	M20	M22	M24	M27	M30	M36
International Part No.	132001	132002	132003	132004	132005	132006	581349
₹ Price/100 Pcs	1,259	1,576	2,243	2,372	3,813	4,744	7,228
Box Quantity	200	100	100	100	100	100	10

- Specifications :** Bolts IS : 3757, Nuts : IS 6623, Washers : IS 6649.
- Threads :** Bolts ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties :** Bolts: Property Class 10.9S as per IS : 1367.
Nuts: Property Class 10S as per IS : 1367. Washer: Hardness: HRC 38-45 as per IS: 6649
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



High Tensile Track Shoe Bolts & Square Nuts

Suitable for BEML (KOMATSU) EARTHMOVERS

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	₹ Price/ 100 pcs
130.32.11212	M16 x 1.5 x 57	T.S. Bolt	D50, D50A 15	330001	6,911
130.32.11220	M16 x 1.5	T.S. Sq. Nut	D50, D50A 15	330002	3,499
130.32.11212/130.32.11220	M16 x 1.5 x 57	T.S. Bolt & Sq. Nut	D50, D50A 15	550287	10,410
205.32.51210	M18 x 1.5 x 58	T.S. Bolt	PC220	330003	8,506
01803.01824	M18 x 1.5	T.S. Sq. Nut	Pc220	330004	3,999
205.32.51210/01803.01824	M18 x 1.5 x 58	T.S. Bolt & Sq. Nut	PC220	550288	12,505
150.32.11210	M19 x 1.5 x 65	T.S. Bolt	D80, D80A 12	330005	10,633
150.32.11210/150.32.21311	M19 x 1.5 x 65	T.S. Bolt & Sq. Nut	D80, D80A 12	550289	14,799
113CT51096	M19 x 1.5 x 62	T.S. Bolt	D80, D80A 12	330006	10,633
113CT51096/150.32.21311	M19 x 1.5 x 62	T.S. Bolt & Sq. Nut	D80, D80A 12	550290	14,799
150.32.21311	M19 x 1.5	T.S. Sq. Nut	D80, D80A 12	330007	4,166
207.32.11350	M20 x 1.5 x 63	T.S. Bolt	PC300	330008	11,873
-----	M20 x 1.5	T.S. Sq. Nut	PC300	550308	4,499
207.32.11350	M20 x 1.5 x 63	T.S. Bolt & Sq. Nut	PC300	550291	16,372
176.32.11210	M24 x 1.5 x 78.5	T.S. Bolt	D155	330009	18,962
178.32.11220	M24 x 1.5	T.S. Sq. Nut	D155	330010	7,165
176.32.11210/178.32.11220	M24 x 1.5 x 78.5	T.S. Bolt & Sq. Nut	D155	550292	26,127
195.32.11210	M27 x 1.5 x 82.5	T.S. Bolt	D355	330011	24,810
195.32.11221	M27 x 1.5	T.S. Sq. Nut	D355	330012	10,331
195.32.11210/195.32.11221	M27 x 1.5 x 82.5	T.S. Bolt & Sq. Nut	D355	550294	35,141

SUITABLE FOR L & T POCLAIN EARTHMOVERS

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	₹ Price/ 100 pcs
W 00 330.71	5/8" UNFx2.1/4"	T.S. Bolt	90 CK	330017	6,911
K 01345.36	5/8" UNF	T.S. Sq. Nut	90 CK	330018	3,499
W 00 330.71/K 01345.36	5/8" UNFx2.1/4"	T.S. Bolt & Sq. Nut	90 CK	550296	10,410
U 02330-77	7/8" UNFx2.66"	T.S. Bolt	300 CK	330014	14,532
Z 02345-07	7/8" UNF	T.S. Sq. Nut	300 CK	330015	6,165
U 02330-77/Z 02345-07	7/8" UNFx2.66"	T.S. Bolt & Sq. Nut	300 CK	550300	20,697

- 1. Specifications :** Forged from High Grade Alloy Steel.
- 2. Mechanical Properties :** Track Shoe Bolt Grade 12.9, Square Nut HRC 32-38
- 3. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 4. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.**



High Tensile Track Shoe Bolts & Square Nuts

Suitable for CATERPILLAR EARTHMOVERS

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	₹ Price/ 100 pcs
7H 3597	5/8" UNFx2.3/32"	T.S. Bolt	D4, D5	330016	6,557
5M 8756	5/8" UNFx2.1/4"	T.S. Bolt	D4, D5	330017	6,911
1M 1408	5/8" UNF	T.S. Sq. Nut	D4, D5	330018	3,499
7H 3597/1M 1408	5/8" UNFx2.3/32"	T.S. Bolt & Sq. Nut	D4, D5	550295	10,056
5M 8756/1M 1408	5/8" UNFx2.1/4"	T.S. Bolt & Sq. Nut	D4, D5	550296	10,410
7 H3598	3/4" UNF x 2.3/8"	T.S. Bolt	D6, D7	330019	10,456
1S1860	3/4" UNF	T.S. Sq. Nut	D6, D7	330020	4,333
7 H3598/1S1860	3/4" UNF x 2.3/8"	T.S. Bolt & Sq. Nut	D6, D7	550297	14,789
7H 3599	7/8" UNF x 2.66" (2 21/32)	T.S. Bolt	D8	330014	14,532
2S2140	7/8" UNF	T.S. Sq. Nut	D8	330015	6,165
7H 3599/2S2140	7/8" UNF x 2.66" (2 21/32)	T.S. Bolt & Sq. Nut	D8	550298	20,697
9M 7445	1" UNS x 2.94" (2 15/16)	T.S. Bolt	D8	330021	20,734
1S6421	1" UNS	T.S. Sq. Nut	DS9	330022	8,498
9M 7445/1S6421	1" UNS x 2.94" (2 15/16)	T.S. Bolt & Sq. Nut	DS9	550299	29,232

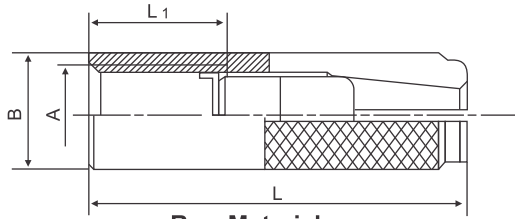
SUITABLE FOR HM-TEREX & HM DEMAG EARTHMOVERS

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	₹ Price/ 100 pcs
01801340	3/4"xUNFx2.3/4"	T.S. Bolt	H31, H36, H41	630419	11,650
06400140	3/4" UNF	T.S. Sq. Nut	H36	330020	4,333
01801340/06400140	3/4"xUNFx2.3/4"	T.S. Bolt & Sq. Nut	H31, H36, H41	550297	15,983
06327940	7/8" UNFx3.11/32" (84.9 mm)	T.S. Bolt	H51, H55	330023	17,190
06400240	7/8" UNF	T.S. Sq. Nut	H51	330015	6,165
06327940/06400240	7/8" UNFx3.11/32" (84.9 mm)	T.S. Bolt & Sq. Nut	H51, H55	550300	23,355

- Specifications :** Forged from High Grade Alloy Steel.
- Mechanical Properties :** Track Shoe Bolt Grade 12.9, Square Nut HRC 32-38
- Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



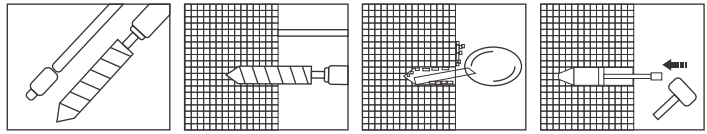
Drop In Anchors



Raw Material:

Special steel developed by UNBRAKO USA

DROP IN ANCHORS HAMMER SET ANCHORS



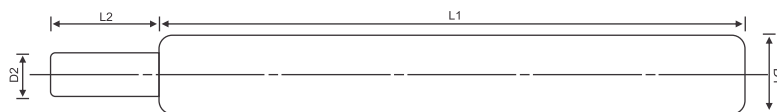
Value Are In KN

Main Technical Index	M6 x 25	M8 x 30	M10 x 40	M12 x 50	M16 x 60
Design tensile breaking strength	3.3	5.3	7.0	11.9	16.1
Design breaking shearing force	4.1	6.7	7.8	14.3	18.1
Safety Tensile breaking strength	2.4	3.8	5.0	8.5	11.5
Safety breaking shearing force	2.9	3.9	5.6	10.2	12.9

Drop In Anchors

Code	International Part No.	Size (A)	External Diameter (B)	Thread Length (L1)	Body Length (L)	Box Quantity	Carton Quantity	₹ Price/ 100 Nos
DANCH0625ZP	551654	M6	8.0	10	25	100	3600	555
DANCH0830ZP	551655	M8	10.0	13	30	100	1800	725
DANCH1040ZP	551656	M10	12.0	15	40	50	1000	1,129
DANCH1250ZP	530269	M12	16.0	20	50	50	600	2,673
DANCH1660ZP	551657	M16	20.0	25	60	25	300	4,505

★ ★ ★ ONE ANCHOR SETTING TOOL FREE WITH PACK OF 100 ANCHOR SETS ★ ★ ★



Drop In Anchors Setting Tools

Code	SIZE	D1	D2	L1	L2
ANCHT06	6	9.900	4.700	97.790	17.000
ANCHT08	10	12.700	7.950	114.300	25.400
ANCHT10	12	15.875	9.525	127.000	31.750
ANCHT12	16	19.050	12.700	139.700	38.100



Direct Tension Indicator Washers (Auto Torque Indicator) For 8.8 S Bolt Assembly

(Duly Mechanical Zinc Plated)

Size	International Part No.	₹ Price/ 100 pcs	Pcs/Box	Pcs/Carton
M16	630330	2,501	100	1200
M20	370002	4,470	100	800
M22	370003	5,411	50	400
M24	370004	7,247	50	400
M27	370005	9,176	50	300



Direct Tension Indicator Washers (Auto Torque Indicator) For 10.9 S Bolt Assembly

(Duly Mechanical Zinc Plated)

Size	International Part No.	₹ Price/ 100 pcs	Pcs/Box	Pcs/Carton
M24	370006	7,247	50	400
M27	370007	9,176	50	300
M30	370008	13,385	25	200
M36	370009	19,226	25	150



1. **Specification** : Generally conforming to BS-EN-14399-09

Note : Separate catalogue can be provided on request.

2. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Separate Construction Catalogue available on request

Stainless Steel Fasteners

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Austenitic Stainless Steel Fasteners

Unbrako stainless socket screws are made from austenitic stainless steel. Unbrako stainless screws offer excellent resistance to rust and corrosion from acids, organic substances, salt solutions and atmospheres. Superior properties attained with stainless steel include retention of a high percentage of tensile strength and good creep resistance up to +800°F, Without scaling or oxidation.



304/316 Range in A2-70, A4-70 & A4-80

- Socket Head Cap Screws
- Socket Countersunk Head Screws
- Socket Button Head Screws
- Hex Head Screws
- Hex Nuts
- Plain Washer
- Spring Washer
- Socket Set Screws
- Threaded Rod
- Specials



Advantages

- It is virtually immune to foodstuffs, sterilizing solutions, most organic chemicals and dyestuffs, and a wide variety of inorganic chemicals. It is used in the food and beverage, pharmaceutical and electronic chip industries, as it maintains product purity, with minimum contamination.
- Freedom from scaling or oxidation
- Non-magnetic : A valuable property in certain electrical and electronic applications. (Maximum permeability is 1.2 and can be reduced to 1.025 by bright annealing.)

Contour flow & root radius



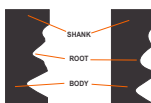
Contour-following flow lines provide extra shear strength in threads, resist stripping and provide high fatigue resistance. The large root radius, an UNBRAKO socket screw development, doubles fatigue life compared to flat root thread forms.

Accurate socket depth



Accurate control of socket depth gives more wrench engagement than other screws, permits full tightening without cracking or reaming the socket, yet provides ample metal in the crucial fillet area for maximum head strength.

Controlled runout root radius



In comparison to the sharp angle at root, Unbrako's controlled radius of runout root provides a smooth form that distributes stress and increases fatigue life of the thread run-out as much as 300% in certain sizes.

Conventional Thread Unbrako 3R Thread

Forged heads



Controlled head forging, uniform grain flow, unbroken flow lines; makes head stronger; minimizes failure in vital fillet area and adds to the fatigue strength.



Socket Head Cap Screws

Metric S.S. 304

DIA	M3 Wrench Key Size 2.5mm			M4 Wrench Key Size 3mm			M5 Wrench Key Size 4mm			M6 Wrench Key Size 5mm			M8 Wrench Key Size 6mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
6	5000730	297	500	5000738	366	500										
8	5000731	339	500	5000739	360	500										
10	5000732	286	500	5000740	305	500	5000749	387	500	5000762	374	200				
12	5000733	318	500	5000741	339	500	5000750	429	500	5000763	403	200	5000780	924	200	
16	5000734	382	500	5000742	390	500	5000751	482	500	5000764	457	200	5000781	1,026	200	
20	5000735	430	500	5000743	401	500	5000752	492	200	5000765	512	200	5000782	981	200	
25	5000736	492	200	5000744	475	500	5000753	590	200	5000766	596	200	5000783	1,097	200	
30	5000737	584	200	5000745	549	500	5000754	689	200	5000767	651	200	5000784	1,236	200	
35				5000746	623	200	5000755	775	200	5000768	777	200	5000785	1,382	200	
40				5000747	773	200	5000756	873	200	5000769	863	200	5000786	1,529	200	
45				5002525	876	200	5000757	971	200	5000770	949	200	5000787	1,675	200	
50				5000748	966	200	5000758	1,058	200	5000771	1,036	200	5000788	1,821	200	
55							5000759	1,304	200	5000772	1,121	200	5000789	1,967	100	
60							5000760	1,423	200	5000773	1,208	200	5000790	2,114	100	
65							5000761	1,540	200	5000774	1,415	200	5000791	2,267	100	
70										5000775	1,523	200	5000792	2,414	100	
75										5000776	1,837	200	5000793	2,586	100	
80										5000777	1,959	200	5000794	2,706	100	
90										5000778	2,204	200	5000795	3,044	100	
100										5000779	2,449	200	5000796	3,382	100	
110													5000797	5,717	100	
120													5000798	6,236	50	
125													5000799	6,864	50	
130													5000800	7,138	50	
140													5001471	7,687	50	
150													5001472	8,290	50	

1. **Specification** : Din 912, ISO 4762.
2. **Property Class** : A2 - 70.
3. **Material** : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. **Marking** : UNBRAKO A2 - 70.



Socket Head Cap Screws

Metric S.S. 304

DIA	M10 Wrench Key Size 8mm			M12 Wrench Key Size 10mm			M16 Wrench Key Size 14mm			M20 Wrench Key Size 17mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
16	5000801	1,747	200										
20	5000802	1,675	200	5000821	2,348	100							
25	5000803	1,858	100	5000822	2,611	100							
30	5000804	2,041	100	5000823	2,875	100	5000842	5,690	50				
35	5000805	2,224	100	5000824	3,138	100	5000843	6,173	50				
40	5000806	2,406	100	5000825	3,402	100	5000844	6,656	50	5000859	12,561	10	
45	5000807	2,640	100	5000826	3,672	50	5000845	7,138	50	5000860	13,482	10	
50	5000808	2,875	100	5000827	3,987	50	5000846	7,753	25	5000861	14,403	10	
55	5000809	3,109	100	5000828	4,308	50	5000847	8,338	25	5000862	15,324	10	
60	5000810	3,342	100	5000829	4,638	50	5000848	8,923	25	5000863	16,246	10	
65	5000811	3,576	100	5000830	4,959	50	5000849	9,508	20	5000864	17,167	10	
70	5000812	3,811	50	5000831	5,215	50	5000850	10,093	20	5000865	18,088	10	
75	5000813	4,083	50	5000832	5,587	50	5000851	10,814	20	5000866	19,380	10	
80	5000814	4,279	50	5000833	5,866	50	5000852	11,264	20	5000867	20,181	10	
90	5000815	4,747	50	5000834	6,517	50	5000853	12,434	10	5000868	22,275	10	
100	5000816	5,208	50	5000835	7,168	50	5000854	13,604	10	5000869	24,368	10	
110	5000817	6,558	50	5000836	8,960	25	5000855	16,915	20	5000870	26,462	10	
120	5000818	7,155	50	5000837	9,714	25	5000856	18,255	20	5001486	28,555	10	
125	5000819	7,453	50	5000838	10,119	25	5000857	19,016	20	5001487	29,603	10	
130	5000820	7,751	50	5000839	10,524	25	5001480	19,595	20	5001488	30,649	10	
140	5001473	8,348	50	5000840	11,332	25	5001481	20,935	20	5001489	32,742	10	
150	5001474	8,960	50	5000841	12,142	25	5000858	22,275	20	5001490	34,836	10	
160	5001475	10,755	50	5001476	14,623	25	5001482	26,903	10	5001491	42,071	10	
170	5001718	11,415	25	5001477	15,566	20	5001483	28,582	10	5001492	44,456	10	
180	5001719	12,076	25	5001478	16,415	20	5001484	30,242	10	5001493	46,841	10	
200	5001720	13,396	25	5001479	18,302	20	5001485	33,581	10	5001730	51,611	10	
220	5001721	16,642	20	5001724	22,472	20	5001727	41,128	10	5001731	63,070	10	
230	5001722	17,384	20	5001725	23,532	20	5001728	42,930	10	5001732	65,932	5	
250	5001723	18,868	20	5001726	25,652	20	5001729	46,640	10	5001733	71,656	5	

1. Specification : Din 912, ISO 4762.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A2 - 70.



Socket Head Cap Screws

Metric S.S. 304

DIA	M22 Wrench Key Size 17mm			M24 Wrench Key Size 19mm			M27 Wrench Key Size 19mm			M30 Wrench Key Size 22mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
50	5000871	20,935	10	5000891	25,122	10	5000910	33,581	5				
55	5000872	22,024	10	5000892	26,462	10	5000911	35,680	5				
60	5000873	23,112	10	5000893	27,634	10	5000912	37,778	5	5000929	55,427	5	
65	5000874	24,368	10	5000894	28,890	10	5000913	39,877	5	5000930	58,003	5	
70	5000875	25,624	10	5000895	30,398	10	5000914	41,976	5	5000931	60,579	5	
75	5000876	27,450	10	5000896	32,566	10	5000915	44,972	5	5000932	64,901	5	
80	5000877	28,137	10	5000897	33,412	10	5000916	46,174	5	5000933	65,826	5	
90	5000879	30,649	10	5000898	36,427	10	5000917	50,467	5	5000934	71,073	5	
100	5000880	33,161	10	5000899	39,442	10	5000918	54,760	5	5000935	76,320	5	
110	5000881	35,673	10	5000900	42,456	10	5000919	59,053	5	5000936	81,567	5	
120	5000882	38,185	5	5000901	45,471	10	5000920	63,346	5	5000937	86,814	5	
125	5000883	39,777	5	5000902	47,363	5	5000921	65,979	5	5000938	90,429	5	
130	5000884	40,698	5	5000903	48,485	5	5000922	67,639	5	5000939	92,061	5	
140	5000885	43,210	5	5000904	51,500	5	5000923	71,932	5	5000940	97,308	5	
150	5000886	45,722	5	5000905	54,515	5	5000924	76,225	5	5000941	103,032	5	
160	5000887	54,950	5	5000906	65,540	5	5000925	93,937	5	5000942	125,769	4	
170	5000888	58,385	5	5000907	69,632	5	5000926	99,803	5	5000943	133,572	4	
180	5000889	60,674	5	5000908	72,409	5	5000927	103,954	5	5000944	138,012	4	
200	5000890	66,398	5	5000909	79,277	5	5000928	113,526	5	5000945	150,255	5	
220	5001734	80,136	5	5001737	95,718	5	5001743	123,543	4	5001749	162,498	3	
230	5001735	83,740	5	5001738	100,064	5	5001744	129,108	4	5001750	169,844	3	
250	5001736	91,054	5	5001739	107,590	5	5001745	142,575	4	5001751	181,976	3	
270				5001740	116,176	5	5001746	154,818	3	5001752	194,107	2	
280				5001741	120,522	5	5001747	160,606	3	5001753	199,227	2	
300				5001742	129,214	5	5001748	172,070	3	5001754	211,470	2	

1. Specification : Din 912, ISO 4762.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A2 - 70.



Socket Head Cap Screws

Metric S.S. 316

DIA	M3 Wrench Key Size 2.5mm			M4 Wrench Key Size 3mm			M5 Wrench Key Size 4mm			M6 Wrench Key Size 5mm			M8 Wrench Key Size 6mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
6	5000946	412	500	5000953	507	500										
8	5000947	470	500	5000954	500	500										
10	5000948	397	500	5000955	423	500	5000963	537	500	5000974	519	200				
12	5000949	441	500	5000956	470	500	5000964	595	500	5000975	559	200	5000992	1,282	200	
16	5000950	529	500	5000957	541	500	5000965	669	500	5000976	634	200	5000993	1,423	200	
20	5000951	597	500	5000958	556	500	5000966	682	200	5000977	710	200	5000994	1,360	200	
25	5000952	682	200	5000959	659	500	5000967	819	200	5000978	826	200	5000995	1,521	200	
30	5001494	810	200	5000960	761	500	5000968	956	200	5000979	903	200	5000996	1,714	200	
35				5000961	864	200	5000969	1,075	200	5000980	1,078	200	5000997	1,917	200	
40				5000962	1,072	200	5000970	1,211	200	5000981	1,197	200	5000998	2,120	200	
45				5002526	1,212	200	5000971	1,347	200	5000982	1,316	200	5000999	2,323	200	
50				5001495	1,339	200	5000972	1,467	200	5000983	1,436	200	5001000	2,525	200	
55							5000973	1,808	200	5000984	1,555	200	5001001	2,728	100	
60							5001496	1,973	200	5000985	1,676	200	5001002	2,931	100	
65							5001497	2,136	200	5000986	1,962	200	5001003	3,144	100	
70										5000987	2,112	200	5001004	3,347	100	
75										5000988	2,548	200	5001005	3,587	100	
80										5000989	2,717	200	5001006	3,753	100	
90										5000990	3,056	200	5001007	4,222	100	
100										5000991	3,396	200	5001008	4,691	100	
110													5001498	7,928	100	
120													5001499	8,648	50	
125													5001500	9,518	50	
130													5001501	9,899	50	
140													5001502	10,660	50	
150													5001503	11,497	50	

1. Specification : Din 912, ISO 4762.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.



Socket Head Cap Screws

Metric S.S. 316

DIA	M10 Wrench Key Size 8mm			M12 Wrench Key Size 10mm			M16 Wrench Key Size 14mm			M20 Wrench Key Size 17mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
16	5001504	2,423	200										
20	5001009	2,323	200	5001512	3,256	100							
25	5001010	2,577	100	5001024	3,621	100							
30	5001011	2,830	100	5001025	3,987	100	5001523	7,891	50				
35	5001012	3,084	100	5001026	4,351	100	5001038	8,561	50				
40	5001013	3,337	100	5001027	4,717	100	5001039	9,230	50	5001050	17,420	10	
45	5001014	3,662	100	5001028	5,092	50	5001040	9,899	50	5001051	18,697	10	
50	5001015	3,987	100	5001029	5,529	50	5001041	10,752	25	5001052	19,974	10	
55	5001016	4,312	100	5001030	5,974	50	5001042	11,563	25	5001053	21,252	10	
60	5001017	4,635	100	5001031	6,431	50	5001043	12,374	25	5001054	22,529	10	
65	5001018	4,960	100	5001032	6,877	50	5001044	13,186	20	5001055	23,807	10	
70	5001019	5,285	50	5001033	7,232	50	5001045	13,997	20	5001056	25,084	10	
75	5001020	5,662	50	5001034	7,748	50	5001046	14,997	20	5001057	26,876	10	
80	5001021	5,934	50	5001035	8,135	50	5001047	15,620	20	5001058	27,987	10	
90	5001022	6,583	50	5001036	9,038	50	5001048	17,243	10	5001059	30,891	10	
100	5001023	7,222	50	5001037	9,940	50	5001049	18,866	10	5001060	33,794	10	
110	5001505	9,095	50	5001513	12,426	25	5001524	23,458	20	5001534	36,697	10	
120	5001506	9,923	50	5001514	13,471	25	5001525	25,316	20	5001535	39,600	10	
125	5001507	10,336	50	5001515	14,033	25	5001526	26,372	20	5001536	41,053	10	
130	5001508	10,749	50	5001516	14,594	25	5001527	27,174	20	5001537	42,504	10	
140	5001509	11,576	50	5001517	15,716	25	5001528	29,033	20	5001538	45,407	10	
150	5001510	12,426	50	5001518	16,839	25	5001529	30,891	20	5001539	48,310	10	
160	5001511	14,915	50	5001519	20,279	25	5001530	37,309	10	5001540	58,344	10	
170	5001755	15,830	25	5001520	21,587	20	5001531	39,637	10	5001541	61,652	10	
180	5001756	16,746	25	5001521	22,764	20	5001532	41,939	10	5001542	64,959	10	
200	5001757	18,578	25	5001522	25,381	20	5001533	46,570	10	5001767	71,574	10	
220	5001758	23,079	20	5001761	31,164	20	5001764	57,036	10	5001768	87,465	10	
230	5001759	24,108	20	5001762	32,634	20	5001765	59,535	10	5001769	91,434	5	
250	5001760	26,166	20	5001763	35,574	20	5001766	64,680	10	5001770	99,372	5	

1. Specification : Din 912, ISO 4762.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.



Socket Head Cap Screws

Metric S.S. 316

DIA	M22 Wrench Key Size 17mm			M24 Wrench Key Size 19mm			M27 Wrench Key Size 19mm			M30 Wrench Key Size 22mm			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
50	5001061	29,033	10	5001080	34,839	10	5001099	46,570	5				
55	5001062	30,542	10	5001081	36,697	10	5001100	49,480	5				
60	5001063	32,052	10	5001082	38,323	10	5001101	52,391	5	5001118	76,866	5	
65	5001064	33,794	10	5001083	40,065	10	5001102	55,301	5	5001119	80,438	5	
70	5001065	35,536	10	5001084	42,155	10	5001103	58,212	5	5001120	84,011	5	
75	5001066	38,067	10	5001085	45,163	10	5001104	62,366	5	5001121	90,004	5	
80	5001067	39,020	10	5001086	46,336	10	5001105	64,033	5	5001122	91,287	5	
90	5001068	42,504	10	5001087	50,517	10	5001106	69,987	5	5001123	98,564	5	
100	5001069	45,987	10	5001088	54,697	10	5001107	75,940	5	5001124	105,840	5	
110	5001070	49,471	10	5001089	58,878	10	5001108	81,894	5	5001125	113,117	5	
120	5001071	52,955	5	5001090	63,059	10	5001109	87,847	5	5001126	120,393	5	
125	5001072	55,162	5	5001091	65,683	5	5001110	91,499	5	5001127	125,406	5	
130	5001073	56,439	5	5001092	67,239	5	5001111	93,801	5	5001128	127,670	5	
140	5001074	59,923	5	5001093	71,420	5	5001112	99,754	5	5001129	134,946	5	
150	5001075	63,407	5	5001094	75,601	5	5001113	105,708	5	5001130	142,884	5	
160	5001076	76,205	5	5001095	90,890	5	5001114	130,271	5	5001131	174,416	4	
170	5001077	80,968	5	5001096	96,566	5	5001115	138,406	5	5001132	185,236	4	
180	5001078	84,143	5	5001097	100,416	5	5001116	144,163	5	5001133	191,394	4	
200	5001079	92,081	5	5001098	109,941	5	5001117	157,437	5	5001134	208,373	5	
220	5001771	111,132	5	5001774	132,741	5	5001780	171,329	5	5001786	225,351	3	
230	5001772	116,130	5	5001775	138,768	5	5001781	179,046	4	5001787	235,538	3	
250	5001773	126,273	5	5001776	149,205	5	5001782	197,722	4	5001788	252,362	3	
270				5001777	161,112	5	5001783	214,701	3	5001789	269,186	2	
280				5001778	167,139	5	5001784	222,727	3	5001790	276,287	2	
300				5001779	179,193	5	5001785	238,625	3	5001791	293,265	2	

1. **Specification** : Din 912, ISO 4762.
2. **Property Class** : A4 - 70.
3. **Material** : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. **Marking** : UNBRAKO A4 - 70.



Hex Head Screws

Metric S.S. 304

DIA	M3			M4			M5			M6		
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs
10	5000001	120	500	5000011	169	500	5000021	218	500	5000037	340	500
12	5000002	130	500	5000012	174	500	5000022	232	500	5000038	346	500
16	5000003	140	500	5000013	190	500	5000023	279	500	5000039	386	500
20	5000004	157	500	5000014	211	500	5000024	330	500	5000040	432	500
25	5000005	181	200	5000015	237	500	5000025	373	500	5000041	507	500
30	5000006	310	200	5000016	294	500	5000026	431	500	5000042	568	500
35	5000007	374	200	5000017	343	500	5000027	488	500	5000043	625	200
40	5000008	464	200	5000018	474	500	5000028	520	500	5000044	679	200
45	5000009	501	200	5000019	509	500	5000029	571	500	5000045	745	200
50	5000010	539	200	5000020	529	500	5000030	609	500	5000046	805	200
55							5000031	778	500	5000047	895	200
60							5000032	802	200	5000048	937	200
65							5000033	861	200	5000049	1,022	100
70							5000034	917	200	5000050	1,071	100
75							5000035	989	200	5000051	1,187	100
80							5000036	1,045	200	5000052	1,232	100
85										5000053	1,366	100
90										5000054	1,396	100
100										5000055	1,540	100

1. **Specification** : Din 933.
2. **Property Class** : A2 - 70.
3. **Material** : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. **Marking** : UNBRAKO A2 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 304

DIA	M8			M10				M12				
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty
16	5000056	818	200	5000073	5000280	1,431	200					
20	5000057	819	200	5000074	5000281	1,413	200	5000090	5000297	2,153	100	
25	5000058	926	200	5000075	5000282	1,582	200	5000091	5000298	2,370	100	
30	5000059	1,032	200	5000076	5000283	1,746	100	5000092	5000299	2,540	100	
35	5000060	1,140	200	5000077	5000284	1,912	100	5000093	5000300	2,788	100	
40	5000061	1,246	200	5000078	5000285	2,079	100	5000094	5000301	3,003	100	
45	5000062	1,353	200	5000079	5000286	2,245	100	5000095	5000302	3,232	50	
50	5000063	1,452	200	5000080	5000287	2,412	100	5000096	5000303	3,465	50	
55	5000064	1,559	100	5000081	5000288	2,579	100	5000097	5000304	3,705	50	
60	5000065	1,665	100	5000082	5000289	2,752	100	5000098	5000305	3,877	50	
65	5000066	1,772	100	5000083	5000290	3,251	50	5000099	5000306	4,184	50	
70	5000067	1,879	100	5000084	5000291	3,085	50	5000100	5000307	4,424	50	
75	5000068	1,985	100	5000085	5000292	3,251	50	5000101	5000308	4,664	50	
80	5000069	2,092	100	5000086	5000293	3,419	50	5000102	5000309	4,904	50	
85	5000070	2,198	100	5000087	5000294	3,585	50	5000103	5000310	5,144	25	
90	5000071	2,306	100	5000088	5000295	3,751	50	5000104	5000311	5,384	25	
100	5000072	2,512	50	5000089	5000296	4,084	50	5000105	5000312	5,863	25	
110	5000198	2,870	50	5000204	5000338	4,597	50	5000211	5000345	6,366	25	
120	5000199	3,082	50	5000205	5000339	4,853	25	5000212	5000346	6,992	25	
125	5000200	3,271	50	5000206	5000340	4,976	50	5000213	5000347	7,242	25	
130	5000201	3,404	50	5000207	5000341	5,157	50	5000214	5000348	7,603	25	
140	5000202	3,638	50	5000208	5000342	5,533	50	5000215	5000349	8,078	25	
150	5000203	4,086	50	5000209	5000343	5,858	30	5000216	5000350	8,557	25	
160				5000210	5000344	7,302	25	5000217	5000351	9,587	20	
170				5001543	5001606	7,761	25	5000218	5000352	14,135	20	
180				5001544	5001607	8,185	25	5000219	5000353	14,517	20	
200				5001545	5001608	8,985	25	5000220	5000354	17,484	25	
220				5001546	5001609	9,777	20	5001549	5001612	19,106	25	
230				5001547	5001610	10,184	20	5001550	5001613	19,836	20	
250				5001548	5001611	10,995	20	5001551	5001614	21,346	20	

1. Specification : Din 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A2 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 304

DIA	M14				M16			M18		
	Length	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs
25	5000106	5000313	3,887	50	5000121	5,001	25			
30	5000107	5000314	4,183	50	5000122	5,370	25			
35	5000108	5000315	4,495	25	5000123	5,714	25			
40	5000109	5000316	4,744	25	5000124	6,059	25	5000136	10,025	25
45	5000110	5000317	5,086	25	5000125	6,487	25	5000137	10,790	25
50	5000111	5000318	5,374	25	5000126	6,862	25	5000138	11,211	25
55	5000112	5000319	5,762	25	5000127	7,329	25	5000139	12,139	25
60	5000113	5000320	5,952	25	5000128	7,795	25	5000140	12,612	25
65	5000114	5000321	6,398	25	5000129	8,195	25	5000141	13,395	25
70	5000115	5000322	6,636	25	5000130	8,661	25	5000142	13,873	25
75	5000116	5000323	6,954	25	5000131	9,128	25	5000143	14,659	10
80	5000117	5000324	7,289	25	5000132	9,594	25	5000144	15,233	10
85	5000118	5000325	7,932	25	5000133	9,995	25	5000145	15,855	10
90	5000119	5000326	8,332	25	5000134	10,461	25	5000146	16,356	10
100	5000120	5000327	8,578	25	5000135	11,327	15	5000147	17,265	10
110	5001552	5001615	9,874	25	5000221	13,065	15	5001568	20,048	10
120	5001553	5001616	10,595	25	5000222	13,871	15	5001569	21,413	10
125	5001554	5001617	10,956	25	5000223	14,298	15	5001570	22,181	10
130	5001555	5001618	11,316	25	5000224	14,763	15	5001571	22,863	10
140	5001556	5001619	12,037	25	5000225	15,450	15	5001572	24,228	10
150	5001557	5001620	12,758	25	5000226	16,596	15	5001573	25,593	10
160	5001558	5001621	13,478	25	5000227	17,789	15	5001574	26,958	10
170	5001559	5001622	14,199	25	5000228	19,443	15	5001575	28,323	10
180	5001560	5001623	14,920	25	5000229	20,716	15	5001576	29,688	10
200	5001561	5001624	16,361	25	5000230	23,182	10	5001577	32,418	10
220	5001562	5001625	17,803	20	5001565	25,772	10	5001578	35,745	10
230	5001563	5001626	18,524	20	5001566	27,053	10	5001579	37,195	10
250	5001564	5001627	19,965	20	5001567	29,304	10	5001580	40,011	10

1. Specification : Din 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A2 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 304

DIA	M20			M22				M24			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
40	5000148	11,061	25								
45	5000149	11,890	25								
50	5000150	12,493	25	5000160	5000328	16,881	10	5000170	19,893	10	
55	5000151	12,980	25	5000161	5000329	18,027	10	5000171	21,191	10	
60	5000152	13,673	25	5000162	5000330	19,364	10	5000172	22,720	10	
65	5000153	14,475	10	5000163	5000331	19,889	10	5000173	24,975	10	
70	5000154	15,307	10	5000164	5000332	20,983	10	5000174	25,992	10	
75	5000155	15,891	10	5000165	5000333	22,179	10	5000175	27,596	10	
80	5000156	16,646	10	5000166	5000334	22,961	10	5000176	28,200	10	
85	5000157	17,295	10	5000167	5000335	24,395	10	5000177	29,321	10	
90	5000158	17,996	10	5000168	5000336	24,935	10	5000178	29,895	10	
100	5000159	19,300	10	5000169	5000337	25,744	10	5000179	32,597	10	
110	5000231	21,490	10	5000240	5000355	28,111	10	5000250	35,995	5	
120	5000232	22,838	10	5000241	5000356	30,601	10	5000251	37,924	10	
125	5000233	23,536	10	5000242	5000357	31,004	10	5000252	39,413	5	
130	5000234	24,366	10	5000243	5000358	31,954	10	5000253	39,626	5	
140	5000235	25,820	10	5000244	5000359	33,886	10	5000254	42,459	5	
150	5000236	27,351	10	5000245	5000360	36,474	10	5000255	47,932	5	
160	5000237	28,594	10	5000246	5000361	39,178	5	5000256	48,982	5	
170	5000238	30,086	10	5000247	5000362	41,956	5	5000257	51,105	5	
180	5000239	31,453	10	5000248	5000363	43,577	5	5000258	53,940	5	
200	5001581	36,143	10	5000249	5000364	48,045	5	5000259	58,671	5	
220	5001582	40,107	5	5001585	5001628	50,460	5	5001588	63,688	5	
230	5001583	41,918	5	5001586	5001629	52,367	5	5001589	66,178	5	
250	5001584	44,907	5	5001587	5001630	56,325	5	5001590	72,029	5	
270								5001591	76,535	4	
280								5001592	84,717	4	
300								5001593	88,500	4	

1. Specification : Din 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A2 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 316

DIA	M6			M8			M10			
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty
10	5000401	469	500							
12	5000402	478	500							
16	5000403	537	500	5000420	1,156	200	5000443	5000645	2,001	200
20	5000404	604	500	5000421	1,151	200	5000444	5000646	2,082	200
25	5000405	709	500	5000422	1,293	200	5000445	5000647	2,275	200
30	5000406	786	500	5000423	1,442	200	5000446	5000648	2,480	100
35	5000407	867	200	5000424	1,591	200	5000447	5000649	2,686	100
40	5000408	944	200	5000425	1,739	200	5000448	5000650	2,901	100
45	5000409	1,070	200	5000426	1,888	200	5000449	5000651	3,134	100
50	5000410	1,159	200	5000427	2,028	200	5000450	5000652	3,366	100
55	5000411	1,253	200	5000428	2,177	100	5000451	5000653	3,599	100
60	5000412	1,274	200	5000429	2,325	100	5000452	5000654	3,841	100
65	5000413	1,420	100	5000430	2,474	100	5000453	5000655	4,551	50
70	5000414	1,492	100	5000431	2,623	100	5000454	5000656	4,410	50
75	5000415	1,617	100	5000432	2,771	100	5000455	5000657	4,538	50
80	5000416	1,682	100	5000433	2,920	100	5000456	5000658	4,778	50
85	5000417	1,912	100	5000434	3,069	100	5000457	5000659	5,003	50
90	5000418	1,954	100	5000435	3,218	100	5000458	5000660	5,236	50
100	5000419	2,144	100	5000436	3,506	50	5000459	5000661	5,700	50
110				5000437	4,084	50	5000460	5000662	6,632	50
120				5000438	4,379	50	5000461	5000663	7,004	25
125				5000439	4,598	50	5000462	5000664	7,180	50
130				5000440	4,778	50	5000463	5000665	7,441	50
140				5000441	5,099	50	5000464	5000666	7,964	50
150				5000442	5,720	50	5000465	5000667	8,427	30
160							5000466	5000668	10,416	25
170							5001631	5001693	10,938	25
180							5001632	5001694	11,507	25
200							5001633	5001695	12,647	25
220							5001634	5001696	13,786	20
230							5001635	5001697	14,356	20
250							5001636	5001698	15,495	20

1. Specification : Din 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 316

DIA	M12				M14				M16		
	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
20	5000467	5000669	3,085	100							
25	5000468	5000670	3,388	100	5000493	5000695	5,662	50	5000508	6,835	25
30	5000469	5000671	3,686	100	5000494	5000696	6,091	50	5000509	7,359	25
35	5000470	5000672	3,999	100	5000495	5000697	6,544	25	5000510	7,857	25
40	5000471	5000673	4,297	100	5000496	5000698	6,905	25	5000511	8,388	25
45	5000472	5000674	4,511	50	5000497	5000699	7,399	25	5000512	9,030	25
50	5000473	5000675	4,907	50	5000498	5000700	7,825	25	5000513	9,579	25
55	5000474	5000676	5,171	50	5000499	5000701	8,388	25	5000514	10,230	25
60	5000475	5000677	5,517	50	5000500	5000702	8,683	25	5000515	10,881	25
65	5000476	5000678	5,840	50	5000501	5000703	9,312	25	5000516	11,439	25
70	5000477	5000679	6,175	50	5000502	5000704	9,670	25	5000517	12,090	25
75	5000478	5000680	6,510	50	5000503	5000705	10,152	25	5000518	12,741	25
80	5000479	5000681	6,845	50	5000504	5000706	10,635	25	5000519	13,392	25
85	5000480	5000682	7,180	25	5000505	5000707	11,571	25	5000520	13,950	25
90	5000481	5000683	7,515	25	5000506	5000708	12,162	25	5000521	14,601	25
100	5000482	5000684	8,184	25	5000507	5000709	12,513	25	5000522	15,810	15
110	5000483	5000685	9,314	25	5001640	5001702	14,795	25	5000523	19,104	15
120	5000484	5000686	10,159	25	5001641	5001703	15,875	25	5000524	20,280	15
125	5000485	5000687	10,521	25	5001642	5001704	16,415	25	5000525	20,909	15
130	5000486	5000688	10,983	25	5001643	5001705	16,955	25	5000526	21,590	15
140	5000487	5000689	11,665	25	5001644	5001706	18,035	25	5000527	22,587	15
150	5000488	5000690	12,356	25	5001645	5001707	19,115	25	5000528	24,254	15
160	5000489	5000691	13,819	20	5001646	5001708	20,195	25	5000529	25,837	15
170	5000490	5000692	19,163	20	5001647	5001709	21,275	25	5000530	27,920	15
180	5000491	5000693	21,314	20	5001648	5001710	22,355	25	5000531	29,676	15
200	5000492	5000694	24,290	25	5001649	5001711	24,515	25	5000532	32,823	10
220	5001637	5001699	26,506	25	5001650	5001712	26,675	20	5001653	35,854	10
230	5001638	5001700	27,549	20	5001651	5001713	27,755	20	5001654	37,258	10
250	5001639	5001701	29,634	20	5001652	5001714	29,915	20	5001655	40,174	10

1. Specification : Din 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 316

DIA	M18			M20			M22			
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty
40	5000533	14,035	25	5000546	15,529	25				
45	5000534	15,106	25	5000547	16,693	25				
50	5000535	15,695	25	5000548	17,539	25	5000567	5000710	23,322	10
55	5000536	16,995	25	5000549	18,222	25	5000568	5000711	24,904	10
60	5000537	17,657	25	5000550	19,196	25	5000569	5000712	26,510	10
65	5000538	18,753	25	5000551	20,234	25	5000570	5000713	27,612	10
70	5000539	19,422	25	5000552	21,392	25	5000571	5000714	29,001	10
75	5000540	20,523	10	5000553	22,311	25	5000572	5000715	30,360	10
80	5000541	21,326	10	5000554	23,371	10	5000573	5000716	31,730	10
85	5000542	22,197	10	5000555	24,281	10	5000574	5000717	33,392	10
90	5000543	22,898	10	5000556	25,266	10	5000575	5000718	34,133	10
100	5000544	24,171	10	5000557	27,096	10	5000576	5000719	36,835	10
110	5000545	28,067	10	5000558	31,678	10	5000577	5000720	38,220	10
120	5001656	29,978	10	5000559	33,664	10	5000578	5000721	41,606	10
125	5001657	31,053	10	5000560	34,695	10	5000579	5000722	42,153	10
130	5001658	32,008	10	5000561	35,916	10	5000580	5000723	43,445	10
140	5001659	33,919	10	5000562	38,061	10	5000581	5000724	46,071	10
150	5001660	35,830	10	5000563	40,317	10	5000582	5000725	49,590	10
160	5001661	37,741	10	5000564	42,150	10	5000583	5000726	53,267	5
170	5001662	39,652	10	5000565	44,349	10	5000584	5000727	57,043	5
180	5001663	41,563	10	5000566	46,365	10	5000585	5000728	59,247	5
200	5001664	45,385	10	5001668	51,108	10	5000586	5000729	65,322	5
220	5001665	50,043	10	5001669	55,860	5	5001672	5001715	72,590	5
230	5001666	52,073	10	5001670	58,077	5	5001673	5001716	75,365	5
250	5001667	56,015	10	5001671	62,723	5	5001674	5001717	81,026	5

1. Specification : Din 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Head Screws

Metric S.S. 316

DIA	M24			M27			M30			
	Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
	50	5000587	29,546	10	5000607	42,897	5			
	55	5000588	31,635	10	5000608	45,126	5			
	60	5000589	32,568	10	5000609	46,953	5	5000627	62,149	5
	65	5000590	34,075	10	5000610	49,800	5	5000628	65,595	5
	70	5000591	35,868	10	5000611	52,040	5	5000629	68,123	5
	75	5000592	39,415	10	5000612	54,280	5	5000630	70,650	5
	80	5000593	40,104	10	5000613	56,755	5	5000631	73,178	5
	85	5000594	42,000	10	5000614	59,260	5	5000632	75,705	5
	90	5000595	44,601	10	5000615	61,261	5	5000633	78,690	5
	100	5000596	48,528	10	5000616	65,644	5	5000634	84,808	5
	110	5000597	49,397	5	5000617	71,769	5	5000635	91,141	5
	120	5000598	52,044	10	5000618	76,373	5	5000636	96,758	5
	125	5000599	54,088	5	5000619	79,844	5	5000637	99,800	5
	130	5000600	54,381	5	5000620	80,976	5	5000638	102,374	5
	140	5000601	58,268	5	5000621	84,153	5	5000639	107,989	5
	150	5000602	67,105	5	5000622	86,001	5	5000640	113,606	3
	160	5000603	67,220	5	5000623	90,386	5	5000641	119,221	3
	170	5000604	70,133	5	5000624	94,770	5	5000642	124,838	3
	180	5000605	74,024	5	5000625	99,154	5	5000643	130,453	3
	200	5000606	80,517	5	5000626	107,923	5	5000644	141,686	5
	220	5001675	89,144	5	5001681	117,756	4	5001687	149,333	3
	230	5001676	92,563	5	5001682	122,088	4	5001688	155,032	3
	250	5001677	99,403	5	5001683	130,865	4	5001689	166,432	3
	270	5001678	106,243	4	5001684	139,529	3	5001690	177,831	3
	280	5001679	118,604	4	5001685	143,975	3	5001691	183,531	2
	300	5001680	123,900	4	5001686	152,638	3	5001692	194,930	2

1. Specification : Din 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. Marking : UNBRAKO A4 - 70.
7. Screws as per IS 1364 / ISO 4017 will be manufactured against specific order with minimum order quantity each size.



Hex Nuts

Metric S.S. 304/316

S.S. 304 A2 Hex Nut					
Size	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton
M3	5001319		56	500	9000
M4	5001320		79	500	9000
M5	5001321		101	500	9000
M6	5001322		171	500	9000
M8	5001323		342	200	2400
M10	5001324	5001334	712	200	2400
M12	5001325	5001335	1,101	200	1600
M14	5001326	5001336	2,160	200	800
M16	5001327		2,293	100	800
M18	5001328		5,140	100	600
M20	5001329		5,078	50	300
M22	5001330	5001337	8,667	50	200
M24	5001331		9,336	50	200
M27	5001332		14,979	25	150
M30	5001333		24,058	25	150

S.S. 316 A4 Hex Nut					
Size	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton
M3	5001338		112	500	9000
M4	5001339		143	500	9000
M5	5001340		177	500	9000
M6	5001341		251	500	9000
M8	5001342		507	200	2400
M10	5001343	5001352	1,042	200	2400
M12	5001344	5001353	1,653	200	1600
M14	5001345	5001354	3,265	200	800
M16	5001346		3,335	100	800
M18	5001347		7,230	100	600
M20	5001348		7,125	50	300
M24	5001349		13,207	50	200
M27	5001350		21,120	25	150
M30	5001351		33,921	25	150

1. Specification : Din 934. 2. Property Class : A2-70 / A4-80. 3. Material : AISI 304 / 316. 4. Excise duty and central sale tax extra as applicable. 5. All Cold Forged. 6. Marking : UNBRAKO A2-70 / UNBRAKO A4-80.
7. Nuts as per IS 1364 / ISO 4032 will be manufactured against specific order with minimum order quantity each size.



Plain Washer

Metric S.S. 304/316

S.S. 304 A2 Plain Washer				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M6	5001355	104	1000	32000
M8	5001356	163	1000	14000
M10	5001357	310	500	7000
M12	5001358	475	500	5000
M14	5001359	783	200	3200
M16	5001360	960	100	3000
M18	5001361	1,290	100	1800
M20	5001362	1,459	100	1400
M22	5001363	1,717	50	800
M24	5001364	2,980	50	700
M27	5001365	3,888	50	700
M30	5001366	4,870	50	500
M33	5001367	6,841	25	200
M36	5001368	8,368	25	350

S.S. 316 A4 Plain Washer				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M6	5001372	141	1000	32000
M8	5001373	245	1000	14000
M10	5001374	465	500	7000
M12	5001375	715	500	5000
M14	5001376	1065	200	3200
M16	5001377	1306	100	3000
M18	5001378	1754	100	1800
M20	5001379	1984	100	1400
M22	5001380	2335	50	800
M24	5001381	4053	50	700
M27	5001382	5288	50	700
M30	5001383	6623	50	500
M33	5001384	9304	25	200
M36	5001385	11380	25	350

1. Specification : DIN 125, IS 2016, ISO 7089. 2. Property Class : A2 / A4. 3. Material : AISI 304 / 316.
4. Excise duty and central sale tax extra as applicable. 5. All Cold Forged. 6. Marking : UNBRAKO A2 / UNBRAKO A4.



Spring Washer

Metric S.S. 304/316

FLAT SECTION A2 S.S. 304				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001386	99	2000	140000
M4	5001387	111	2000	120000
M5	5001388	125	2000	60000
M6	5001389	135	1000	32000
M8	5001390	170	1000	14000
M10	5001391	268	500	7000
M12	5001392	405	500	5000
M14	5001393	637	200	3200
M16	5001394	942	100	3000
M18	5001395	1,029	100	1800
M20	5001396	1,713	100	1400
M22	5001397	1,755	50	800
M24	5001398	2,770	50	700
M27	5001399	3,034	50	700
M30	5001400	4,683	50	500
M33	5001401	6,660	25	200
M36	5001402	7,167	25	350

SQUARE SECTION A2 S.S. 304				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001403	48	2000	160000
M4	5001404	56	2000	90000
M5	5001405	62	2000	48000
M6	5001406	68	1000	30000
M8	5001407	116	1000	24000
M10	5001408	210	500	12000
M12	5001409	244	500	7000
M14	5001410	407	200	4800
M16	5001411	636	100	3000
M18	5001412	707	100	2400
M20	5001413	1,318	100	1500
M22	5001414	1,554	50	1000
M24	5001415	2,069	50	1200
M27	5001416	2,354	50	700
M30	5001417	3,657	50	500
M33	5001418	4,000	25	400
M36	5001419	6,000	25	350

FLAT SECTION A4 S.S. 316				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001420	161	2000	140000
M4	5001421	173	2000	120000
M5	5001422	229	2000	60000
M6	5001423	189	1000	32000
M8	5001424	238	1000	14000
M10	5001425	375	500	7000
M12	5001426	567	500	5000
M14	5001427	892	200	3200
M16	5001428	1,319	100	3000
M18	5001429	1,443	100	1800
M20	5001430	2,398	100	1400
M22	5001431	2,464	50	800
M24	5001432	3,878	50	700
M27	5001433	4,248	50	700
M30	5001434	6,556	50	500
M33	5001435	9,324	25	200
M36	5001436	10,034	25	350

SQUARE SECTION A4 S.S. 316				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001437	104	2000	160000
M4	5001438	117	2000	90000
M5	5001439	155	2000	48000
M6	5001440	95	1000	30000
M8	5001441	162	1000	24000
M10	5001442	294	500	12000
M12	5001443	339	500	7000
M14	5001444	559	200	4800
M16	5001445	890	100	3000
M18	5001446	970	100	2400
M20	5001447	1,845	100	1500
M22	5001448	2,175	50	1000
M24	5001449	2,896	50	1200
M27	5001450	3,295	50	700
M30	5001451	5,119	50	500
M33	5001452	5,600	25	400
M36	5001453	8,400	25	350

1. Specification : Din 127 / 7980, IS 3063 / 6735.
2. Property Class : A2/A4.
3. Material : AISI 304 / 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged.



Threaded Rod

Metric S.S. 304/316

Threaded Rod A2 S.S. 304		
Size	Part No.	₹ Price/Meter
6X1METER	5001454	147
8X1METER	5001455	228
10X1METER	5001456	348
12X1METER	5001457	538
16X1METER	5001458	936
20X1METER	5001459	1,404
24X1METER	5001460	1,958
27X1METER	5001461	2,554
30X1METER	5001462	2,724

Threaded Rod A4 S.S. 316		
Size	Part No.	₹ Price/Meter
6X1METER	5001463	245
8X1METER	5001464	379
10X1METER	5001465	571
12X1METER	5001466	809
16X1METER	5001467	1,310
20X1METER	5001468	2,081
24X1METER	5001469	2,951
27X1METER	5001470	3,921

1. **Specification** : Din 975.
2. **Property Class** : A2 / A4.
3. **Material** : AISI 304 / 316.
4. Excise duty and central sale tax extra as applicable.
5. All Cold Forged Fully Threaded.
6. Price per meter.
7. **Marking** : UNBRAKO A2 / UNBRAKO A4.

Petrochemical Fasteners

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Petrochemical Fasteners

Wide Range of Unbrako Studbolts and Nuts for Gas, Petroleum & Chemical Industries.

ISO 9001:2008 and ISO/TS 16949:2002 Quality Assured.

Product Capability Coatings

- Plain (Self Colour)
- Hot Dipped Galvanized
- Mechanically Plated
- Zinc Plated
- PTFE
- Xylan™
- Molybond™
- Cadmium
- Phosphate and Oil



Size Range

Diameter Range
Inch : 3/8" to 4"
Metric : M10 to M100

Length Range
Inch : upto 10 feet
Metric : upto 3 meters



STUDBOLTS (ASTM Spec)	Screw Fastening Material (generic)	Material	COMPATIBLE NUTS (ASTM Spec)
A193 Grade B7	Cr - Mo	4140 / 4142 / 4145	A194 Grade 2H
A193 Grade B7M	Cr - Mo	4140 / 4142 / 4145	A194 Grade 2HM
A193 Grade B8	18 Cr - 8 Ni	304	A194 Grade 8
A320 Grade B8M	18 Cr - 10 Ni - 2 Mo	316	A194 Grade 8M
A193 Grade B16	Cr MoV	EN 40CrMoV4	A194 Grade 4 or 7
A320 Grade L7	Cr - Mo	4140 / 4142 / 4145	A194 Grade 4 or 7
A320 Grade L7M	Cr - Mo	4140 / 4142 / 4145	A194 Grade 4M or 7M
A193 Grade B5	5 Cr	501	A194 Grade 3
A193 Grade B6	12 Cr	410	A194 Grade 6
A193 Grade B8T	18 Cr - 10 Ni - Ti	321	A194 Grade 8T

* Grey Highlighted items can be made-to-order. Not all material is stocked, however is available on request



Stud Bolt With 2 Heavy Hex Nuts

Metric

DIA	M12		M16		M18		M20		M22	
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
60	350001	3,116	350013	5,997						
70	350002	3,418	350014	6,496	350033	9,111				
80	350003	3,689	350015	6,994	350034	9,770	350055	12,507		
90	350004	3,954	350016	7,502	350035	10,427	350056	13,270	350078	17,513
100	350005	4,227	350017	8,075	350036	11,077	350057	14,117	350079	18,163
110	350006	4,492	350018	8,536	350037	11,690	350058	14,880	350080	18,586
120	350007	4,764	350019	9,074	350038	12,348	350059	15,660	350081	19,584
130	350008	5,074	350020	9,572	350039	12,969	350060	16,461	350082	20,545
140	350009	5,459	350021	10,081	350040	13,619	350061	17,270	350083	21,505
150	350010	5,732	350022	10,578	350041	14,194	350062	18,048	350084	22,504
160	350011	5,997	350023	11,190	350042	14,843	350063	18,851	350085	23,471
170	350012	6,307	350024	11,690	350043	15,470	350064	19,660	350086	24,432
180			350025	12,226	350044	16,121	350065	20,129	350087	25,436
190			350026	12,734	350045	16,734	350066	20,930	350088	26,321
200			350027	13,270	350046	17,384	350067	21,739	350089	27,312
210			350028	13,770	350047	18,004	350068	22,511	350090	28,280
220			350029	14,269	350048	18,623	350069	23,319	350091	29,279
230			350030	14,805	350049	19,273	350070	24,083	350092	30,245
240			350031	15,312	350050	19,887	350071	24,893	350093	31,245
250			350032	15,811	350051	20,545	350072	25,700	350094	32,205
260					350052	21,164	350073	26,472	350095	33,210
270					350053	21,777	350074	27,273	350096	34,170
280					350054	22,427	350075	28,091	350097	35,177
290							350076	28,855	350098	36,136
300							350077	29,663	350099	37,128
320									350100	39,094

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Stud Bolt with 2 Heavy Hex Nuts

Metric

DIA	M24		M27		M30		M33		M36	
Lenght	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
90	350101	19,402								
100	350102	20,855								
110	350103	22,389	350126	30,783						
120	350104	23,161	350127	32,590	350151	41,172				
130	350105	24,318	350128	34,094	350152	42,707	350180	54,140		
140	350106	25,474	350129	35,554	350153	44,635	350181	56,408	350208	71,078
150	350107	26,623	350130	37,051	350154	46,564	350182	58,828	350209	73,799
160	350108	27,782	350131	38,508	350155	48,484	350183	61,096	350210	76,522
170	350109	28,937	350132	40,016	350156	50,019	350184	63,365	350211	79,243
180	350110	30,049	350133	41,557	350157	51,947	350185	65,785	350212	81,966
190	350111	31,206	350134	43,101	350158	53,875	350186	67,599	350213	84,235
200	350112	32,318	350135	44,635	350159	55,417	350187	70,018	350214	86,956
210	350113	34,011	350136	46,177	350160	57,338	350188	72,287	350215	89,678
220	350114	35,177	350137	47,713	350161	59,258	350189	74,706	350216	92,415
230	350115	36,324	350138	48,870	350162	61,187	350190	77,277	350217	95,198
240	350116	37,474	350139	50,374	350163	63,114	350191	80,151	350218	97,391
250	350117	38,631	350140	51,871	350164	66,193	350192	82,268	350219	100,112
260	350118	39,788	350141	53,338	350165	68,113	350193	84,688	350220	102,835
270	350119	40,945	350142	54,836	350166	70,035	350194	86,200	350221	105,406
280	350120	42,094	350143	56,302	350167	71,933	350195	88,469	350222	108,129
290	350121	43,252	350144	57,754	350168	73,891	350196	90,737	350223	112,060
300	350122	44,288	350145	59,258	350169	75,426	350197	92,702	350224	114,631
320	350123	46,677	350146	62,223	350170	79,274	350198	97,239	350225	120,074
340	350124	48,983	350147	65,187	350171	82,737	350199	101,927	350226	125,520
360	350125	51,296	350148	68,160	350172	86,200	350200	106,162	350227	130,964
380			350149	71,115	350173	90,048	350201	110,849	350228	136,106
400			350150	74,079	350174	93,520	350202	115,084	350229	141,247
420					350175	96,975	350203	119,773	350230	146,691
440					350176	100,824	350204	124,008	350231	151,682
460					350177	104,287	350205	128,544	350232	157,277
480					350178	108,136	350206	132,779	350233	162,571
500					350179	111,607	350207	137,618	350234	167,863

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates,
who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Stud Bolt with 2 Heavy Hex Nuts

Metric

DIA	M39		M42		M45		M48		M52		M56	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
150	350235	91,190										
160	350236	94,215	350261	116,295								
170	350237	97,543	350262	120,074	350286	145,618						
180	350238	100,415	350263	124,008	350287	149,724	350310	179,811				
190	350239	103,439	350264	127,788	350288	154,086	350311	184,801	350333	218,222		
200	350240	106,918	350265	131,720	350289	158,336	350312	189,792	350334	223,817		
210	350241	109,944	350266	135,501	350290	162,873	350313	194,933	350335	229,414	350355	266,464
220	350242	113,119	350267	139,447	350291	166,880	350314	199,773	350336	235,916	350356	272,968
230	350243	116,295	350268	143,153	350292	171,840	350315	204,914	350337	241,361	350357	279,772
240	350244	119,319	350269	147,008	350293	176,029	350316	209,905	350338	247,561	350358	286,124
250	350245	122,797	350270	150,480	350294	180,264	350317	214,895	350339	253,459	350359	292,779
260	350246	125,821	350271	154,253	350295	184,801	350318	220,038	350340	259,508	350360	299,432
270	350247	128,997	350272	158,185	350296	189,337	350319	225,028	350341	265,254	350361	305,632
280	350248	132,022	350273	162,131	350297	194,329	350320	230,018	350342	271,456	350362	312,287
290	350249	138,677	350274	165,905	350298	198,866	350321	235,086	350343	277,352	350363	319,092
300	350250	141,701	350275	169,693	350299	204,158	350322	240,000	350344	283,401	350364	325,443
320	350251	146,238	350276	177,406	350300	213,080	350323	249,829	350345	295,499	350365	338,147
340	350252	152,287	350277	184,801	350301	219,432	350324	260,415	350346	306,237	350366	351,453
360	350253	158,185	350278	190,548	350302	228,052	350325	270,396	350347	318,488	350367	364,460
380	350254	164,839	350279	196,295	350303	236,824	350326	280,377	350348	330,282	350368	377,617
400	350255	170,888	350280	203,554	350304	242,721	350327	290,359	350349	342,229	350369	390,774
420	350256	176,937	350281	210,964	350305	250,434	350328	300,490	350350	346,766	350370	403,477
440	350257	183,289	350282	217,920	350306	258,147	350329	310,471	350351	358,411	350371	416,483
460	350258	189,337	350283	225,331	350307	265,859	350330	320,604	350352	369,905	350372	429,790
480	350259	195,538	350284	232,619	350308	273,723	350331	330,586	350353	381,397	350373	442,797
500	350260	202,646	350285	240,099	350309	281,285	350332	340,566	350354	393,194	350374	455,802

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Stud Bolt with 2 Heavy Hex Nuts

Inch

DIA	1/2		5/8		3/4		7/8		1	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
2 1/4	550309	4,160								
2 3/4	550310	4,462	550322	7,621						
3	550311	4,773	550323	8,091	550338	12,484				
3 1/2	550312	5,074	550324	8,552	550339	13,209	550353	19,250		
4	550313	5,384	550325	9,014	550340	13,951	550354	20,264	550368	27,660
4 1/2	550314	5,695	550326	9,474	550341	14,684	550355	21,263	550369	28,961
4 3/4	550315	6,004	550327	9,936	550342	15,395	550356	22,268	550370	30,275
5	550316	6,314	550328	10,397	550343	16,137	550357	23,281	550371	31,607
5 1/2	550317	6,616	550329	10,866	550344	16,863	550358	24,273	550372	32,922
6	550318	6,926	550330	11,320	550345	17,602	550359	25,255	550373	34,208
6 1/2	550319	7,546	550331	12,446	550346	19,070	550360	27,221	550374	36,824
7	550320	7,857	550332	12,907	550347	19,569	550361	28,280	550375	38,140
7 1/2	550321	8,159	550333	13,408	550348	20,295	550362	29,036	550376	39,652
8			550334	14,368	550349	21,685	550363	31,002	550377	41,618
8 1/2			550335	14,873	550350	22,382	550364	32,015	550378	43,145
9			550336	15,334	550351	23,116	550365	32,968	550379	44,689
9 1/2			550337	15,842	550352	23,804	550366	33,952	550380	45,445
10							550367	35,917	550381	48,167
10 1/2									550382	49,330
11									550383	50,873
11 1/2									550384	52,022

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Stud Bolt with 2 Heavy Hex Nuts

Inch

DIA	1 1/8		1 1/4		1 1/2		1 5/8	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
4 1/2	550385	39,305						
4 3/4	550386	40,831	550406	52,779				
5	550387	42,768	550407	54,730				
5 1/2	550388	44,340	550408	56,651	550429	90,062		
6	550389	45,821	550409	58,979	550430	93,006	550458	111,153
6 1/2	550390	49,301	550410	63,213	550431	99,190	550459	118,336
7	550391	50,873	550411	65,135	550432	102,275	550460	121,890
7 1/2	550392	52,385	550412	67,070	550433	105,860	550461	125,520
8	550393	55,879	550413	71,304	550434	111,909	550462	132,627
8 1/2	550394	57,422	550414	73,634	550435	114,934	550463	136,106
9	550395	58,979	550415	75,161	550436	117,958	550464	140,038
9 1/2	550396	60,900	550416	77,474	550437	121,361	550465	143,667
10	550397	64,000	550417	81,723	550438	127,561	550466	150,472
10 1/2	550398	65,890	550418	83,645	550439	130,586	550467	154,253
11	550399	67,433	550419	85,912	550440	132,764	550468	157,580
11 1/2	550400	68,960	550420	87,878	550441	134,593	550469	161,209
12	550401	72,454	550421	91,947	550442	140,642	550470	168,922
12 1/2	550402	73,973	550422	94,064	550443	143,667	550471	172,552
13	550403	75,759	550423	96,166	550444	146,691	550472	176,635
13 1/2	550404	79,228	550424	100,415	550445	152,891	550473	183,439
14	550405	80,922	550425	102,533	550446	156,144	550474	187,523
14 1/2			550426	104,650	550447	159,168	550475	191,152
15			550427	106,767	550448	162,192	550476	194,933
15 1/2			550428	111,001	550449	168,242	550477	201,738
16					550450	171,190	550478	205,520
16 1/2					550451	174,215	550479	208,997
17					550452	177,088	550480	212,627
17 1/2					550453	183,289	550481	220,038
18					550454	186,616	550482	223,817
18 1/2					550455	189,792	550483	227,144
19					550456	195,841	550484	234,706
19 1/2					550457	198,866	550485	238,336
20							550486	241,965
20 1/2							550487	245,594
21							550488	252,552
22							550489	260,112

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Stud Bolt with 2 Heavy Hex Nuts

Inch

DIA	1 3/4		1 7/8		2		2 1/4	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
6 1/2	550490	143,667	550521	168,317				
7	550491	148,204	550522	172,930				
7 1/2	550492	152,287	550523	178,132				
8	550493	160,755	550524	187,976				
8 1/2	550494	164,839	550525	192,741	550554	228,355		
9	550495	169,375	550526	197,732	550555	233,648	550585	312,438
9 1/2	550496	173,610	550527	202,646	550556	239,393	550586	319,696
10	550497	182,382	550528	212,249	550557	250,737	550587	334,214
10 1/2	550498	186,616	550529	217,164	550558	256,484	550588	341,776
11	550499	190,926	550530	221,701	550559	261,776	550589	349,035
11 1/2	550500	195,093	550531	226,843	550560	267,674	550590	356,295
12	550501	203,848	550532	236,521	550561	278,942	550591	370,963
12 1/2	550502	207,940	550533	241,361	550562	284,688	550592	378,222
13	550503	212,324	550534	248,847	550563	290,359	550593	385,632
13 1/2	550504	220,491	550535	256,332	550564	301,246	550594	400,301
14	550505	224,658	550536	261,428	550565	306,993	550595	407,939
14 1/2	550506	228,838	550537	266,162	550566	312,438	550596	414,969
15	550507	233,119	550538	270,698	550567	318,184	550597	422,229
15 1/2	550508	241,549	550539	281,586	550568	329,678	550598	434,025
16	550509	245,776	550540	286,275	550569	335,122	550599	441,133
16 1/2	550510	250,025	550541	291,115	550570	340,566	550600	448,544
17	550511	254,517	550542	295,954	550571	346,313	550601	455,499
17 1/2	550512	262,419	550543	305,783	550572	357,277	550602	470,320
18	550513	265,904	550544	310,775	550573	362,948	550603	477,428
18 1/2	550514	270,926	550545	315,765	550574	368,544	550604	484,535
19	550515	280,332	550546	325,443	550575	379,582	550605	499,053
19 1/2	550516	284,460	550547	330,434	550576	385,329	550606	506,101
20	550517	288,816	550548	335,727	550577	390,320	550607	513,117
20 1/2	550518	292,855	550549	340,566	550578	396,218	550608	520,376
21	550519	301,397	550550	350,094	550579	407,560	550609	535,046
22	550520	309,896	550551	360,226	550580	419,204	550610	549,260
23			550552	375,046	550581	435,688	550611	565,140
24			550553	384,724	550582	447,182	550612	585,480
25					550583	464,271	550613	606,576
26					550584	474,857	550614	621,094
27							550615	642,720

- 1. Studbolt Specification :** Generally conforming to ASTM A193 / Grade : B7
- 2. Nut Specification :** Generally conforming to ASTM A194 / Grade : 2H
- 3. Note :** Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- 4. Plating :** No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- 5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating.** Prices available on request.



Heavy Hex Nuts (ASTM A194 GR2H)

Metric			
Size	Part No.	₹ Price/100 Pcs	Box Quantity
M12	551700	1,382	200
M16	270001	1,673	150
M18	270002	2,495	100
M20	270003	3,236	75
M22	270004	3,962	50
M24	270005	5,549	50
M27	270006	8,313	25
M30	270007	11,712	25
M33	270008	15,074	20
M36	270009	20,642	10
M39	270010	26,333	10
M42	270011	34,233	8
M45	270012	41,999	5
M48	270013	51,242	5
M52	270014	63,844	4
M56	270015	74,329	4

Inch			
Size	Part No.	₹ Price/100 Pcs	Box Quantity
1/2"	270016	1,200	200
9/16"	270017	1,484	175
5/8"	270018	2,171	125
3/4"	270019	3,537	75
7/8"	270020	5,431	50
1"	270021	7,767	30
1 1/8"	270022	10,823	25
1 1/4"	270023	14,991	15
1 3/8"	270024	19,448	15
1 1/2"	270025	24,990	10
1 5/8"	270026	30,913	8
1 3/4"	270027	38,928	6
1 7/8"	270028	45,994	6
2"	270029	94,090	5

- Nut Specification** : Generally conforming to ASTM A194 / Grade : 2H
- Note** : Prices for ASTM Grade B7M, L7, L7M, B16, B8, Yellow Zinc Cr6+, Xylan® PTFE coating available on request.
: Check availability in stock at the time of order.
- Plating** : No guarantee can given for unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.
- Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Prestigious Petrochemical Clientele



Separate Petrochemical Catalogue available on request

Terms & Conditions

Delivery:

All offers for delivery from stocks are subject to goods remaining unsold at the time of receipt of order. For forward delivery, dates are given without any guarantee and no responsibility can be accepted by the company for delay in delivery or failure to deliver due to circumstances beyond the company's control.

Infringement of patent and trade mark:

When products are forged to customer's drawings and / or specifications, the responsibility to ensure that these do not result in infringement of any patent or trademark will lie entirely with customer concerned and the customer will be solely responsible for the consequence in case of any such infringement.

Order confirmation:

The company accepts no responsibility for orders booked by the company's salesman or representatives, till it is confirmed in writing by the company.

Acceptance and return:

Wrong dispatches should be notified to the company within 15days from the date of receipt of goods and the Company's consent should be obtained in writing before return of such goods.

Force Majeure:

The company shall not be responsible for failure or delay in delivering the goods or any part thereof (or any consequential damages) due to acts of God, enemies of the Government of India, wars, revolution, embargo, riots, civil or political disturbances, strikes, lock-outs, or work stoppages.

Disclaimer

All information contained in this Pricelist has been prepared to assist users in their requirements for fasteners. The information is based on International Fastener Standards. All such source material and information beyond the control of Deepak Fasteners Ltd (DFL) is subject to change.








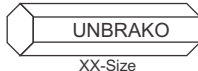









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Comparison of Different Strength Grades

SAE	B.S.	IS 1.S.D. DIN	ULTIMATE TENSILE STRENGTH			HARDNESS		
			Tonnes/In ² (Kgf/mm ²)	Newtons/mm ² Min. (Kgf/mm ²)	Pounds/In ² Min. (Kgf/mm ²)	BHN	HRb	HRc
		4.6		400 (40.8)		114 209	67 95	
GRADE 1					60,000 (42.3)	(121) (241)	70 100	
		4.8		420 (42.8)		124 209	71 95	
		5.6		500 (51.0)		147 209	79 95	
GRADE 2					74,000 (52.1)	(154) (241)	80 100	
		5.8		520 (53.0)		152 209	82 95	
	P		35/45 (55.2/71.0)			152 207		
		6.8		600 (61.2)		181 238	89 99	
	R		45/55 (71.0/86.8)			201 285		
	S		50/60 (78.9/94.7)			223 310		(20/33)
		8.8		800 ≤ M16 830 > M16 (81.6) (84.6)		219/285 242/319		20/30 23/34
GRADE 5					1,20,000 (84.6)	(266) (318)		25/34
	T		55/65 (86.8/102.6)			248 335		(24/36)
	U		60/70 (94.7/110.5)			269 331		(28/36)
	V		65/75 (102.6/118.4)			293 370		(31/40)
GRADE 8					1,50,00 (105.7)	(311) (362)		33/39
		10.9		1,040 (106.0)		295 362		31/39
	W		70/80 (110.5/126.3)			311 375		(33/41)
	X		75/85 (118.4/134.2)			341 410		(37/44)
		12.9		1,220 (124.4)		353 412		38/44
	Y		80/90 (126.3/142.0)			363 429		(39/46)
	Z		100 Min (157.8)			444		(47)

Note : 1. : 1Kgf=9.81 Newtons 1Kgf/mm²=1421.7 Psi 2. : Values in brackets are approximate conversions

How Identify Unbrako Products

PRODUCT	Marking
Socket Head Cap Screw Metric : M4 to M42 Inch : 1/4" to 1" BSW	
	
Socket Countersunk Cap Screw M5 & M24	
Socket Low Head Cap Screw M5 to M20	
Socket Head Shoulder Screw M6 to M24	
Button Head Socket Screw M5 to M12	
Flange Button Head Socket Screw M5 to M10	
Hexagon Wrench Set Metric : 4 A/F to 32 A/F Inch : 5/32" A/F to 3/4" A/F	
Durlok Bolt & Nut M6 to M20	 
Hex Head Bolt/Screw Metric : M5 to M48 Inch : All Sizes	 
	 
Hex Nut Metric : M6 to M72, Inch : 1/4" to 1 1/2" Grade 8 - UNC	 
	

PRODUCT	Marking
Nylock Nut M6 to M24 Grade : 8 and 10	 
Hardened Washer (Type A) M16 to M36	
High Strength Structural Bolt M16 to M36	 
High Strength Structural Nut M16 to M36	 
High Strength Structural Washer	
Track Shoe Bolt and Square Nut Metric : M16 to M27 Inch : 5/8" to 1"	 
	
Direct Tension Indicator Washer M16 to M27	
Stainless Steel Socket Head Cap Screw M5 to M30	 
Stainless Steel Hex Head Bolt/Screws M5 to M30 SS-304/316	 
Stainless Steel Hex Nut M5 to M30 SS-304/316	 
Stainless Steel Plain Washer	 
Studbolt and Nuts Metric : M12 to M56 Inch : 1/2" to 2 1/4"	 

According to stamping area on the Product either Unbrako or U130 marking will be used
 Note : "X" marking on SHCS is the internal coding for product traceability, it can be changed with any alphabet.
 All Products of sizes smaller than M5 or 1/4" have no head marking due to space constraint



Specialized Coating

A Product's lifespan and performance is not only measured by its quality, grade and specification, but also by its surface finish. Choosing the correct coating for the application will prevent corrosion, enhance aesthetic value and add strength to the fastener, extending its life and performance.

Unbrako excels in a variety of coatings done in-house, designed specifically to provide the required protection in such harsh environment. Technical information of a few of these coatings is set out below:

MAIN COATINGS		ELECTROLYTIC COATINGS ZINC CADMIUM	HOT-DIP GALVANISATION	SHERARDIZATION	METALLIC COATING "GEOMET" ®	PTFE
Type of material		All metals	Steels	Steels	All metals	All metals
Process temperature		Bath t° < 90°C Baking temp. < 250°C	460°C - 550°C	350°C - 400 °C	20°C Process 300°C Baking	300°C Baking
Maximum service temperature without damage of coating		Zinc : 250°C Max Cadmium : 235°C Max chromating Zinc & Cadmium : 70°C max	300°C max	500°C max	280°C max	280°C max
Usual thickness		Cadmium : 3 µm to 20 µm	Individual - 43µm Average - 54µm	20 µm - 60 µm	5 µm - 15 µm	10 µm - 20 µm
Average Friction Coefficient	without lubrication	0.16 - 0.22	Seizure risks when bolt stress is >40% YS	≈ 0.29	0.15 - 0.25	0.15 - 0.25
	with lubrication	0.08 - 0.12	0.13 - 0.18	0.08 - 0.12	0.08 - 0.12	0.08 - 0.12
Salt spray test (red corrosion)		Zinc 5 to 7 µm : 48 h min Zinc chromating 5 to 7 µm : 96 h min Reinforced chromating : 200 h min	70µm : 400 h min	Test not praticable without chromating With chromating 20µm : 400 h min With chromating 35µm : 700 h min	5-7 µm : 400h min 8-10 µm: 1000h min	1000h min
Hydrogen embrittlement		Descaling with inhibitor imperative baking for 100 Mpa steels	Descaling with inhibitor No risk process	No risk process	No risk process	No risk process
Aspect		Bright	Matt or glossy	Matt gray	Matt aluminum	Matt Blue

NOTE:- Specialist assistance is recommended when selecting these coatings.

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Products are manufactured to meet these standards.

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CENTRAL MARKETING OFFICE:-

Deepak Fasteners Limited
G.T. Road, Miller Ganj,
Opp. Ramgariya Gurudwara, Ludhiana 141003
Tel.: 0161-3911111 (100 Lines) Fax: 0161-2538333
E-mail: Sanjeev.b@deepakfasteners.com

GUJARAT OFFICE:-

Deepak Fasteners Limited
303-3rd Floor, Basant Complex
Opposite H.D.F.C. BANK, Chaar Rasta,
Navrangpura, Ahmedabad - Gujarat
Mob.: 09331792601, 09375931898
kaushal.sanghvi@deepakfasteners.com
Gujarat.sales2@deepakfasteners.com

CHENNAI OFFICE:-

Deepak Fasteners Limited
Ega Trade Centre, 1st Floor,
Office No. 5, 809, Poonamallee High Road,
Kilpauk, Chennai - 600010 Mob.: 09380002600
Tel. No. 044-26612389, 42858843
E-mail: chennai@deepakfasteners.com,
chennai.sales@deepakfasteners.com

KOLKATA OFFICE:-

Deepak Fasteners Limited
H.M.P. House, Mezannine Floor, Room No. 34,
No.4, Fairlie Place, Kolkata - 1,
Tel.: 033 22314426, Fax.: 033 22314420,
Mob.: 09378207773
E - Mail: kolkata@deepakfasteners.com

MUMBAI OFFICE:-

Deepak Fasteners Limited
Off. No. 06, 1st Floor, Shreeji Arcade,
Opp. Nitin Company Almeda Road,
Panchpakhadi, Thane (west)
Mumbai - 400602. Tel:- 022-40111455,
40111062, 063, Fax:- 022-25408099
E-mail: Vilas@deepakfasteners.com,
Mumbai@deepakfasteners.com

HYDERABAD OFFICE:-

Deepak Fasteners Ltd
H.no. 8-3-166/2/A/A/2 DH.Heights,
second floor, Plot No. 202,
Erragadda - 500018, Ph:040-23801234,
Mob.: 09399991286, 09391351177
hyderabad@deepakfasteners.com

WORLD
IDE Access

UNBRAKO (EUROPE)

Deepak Fasteners (Shannon) Ltd.
Bays 25-30 Shannon Ind. Estate,
County Clare, Ireland
Ph.: +353-61-716-500
Fax: +353-61-716-584

UNBRAKO (UK)

Deepak Fasteners (UK) Ltd.
12-14 Tower Street, New town
Birmingham - B19 3RR, UK
Ph.: +44-121-333-4610
Fax: +44-121-333-4525

UNBRAKO (AUS)

Deepak Fasteners (Australia) Ltd.
67-69 Licola Crescent Dandenong
South Victoria 3175, Australia
Ph.: +61-3-98940026
Fax: +61-3-98940038

UNBRAKO (INDIA)

Deepak Fasteners (India) Ltd.
4th Floor, First Mall, The Mall
Ludhiana- 141001 (pb.) India
Ph.: +91-161-3911111
Fax: +91-161-2774400

UNBRAKO LLC (USA)

12833 South Spring Street
Los Angeles, California,
USA - 90061,
Tel: +1-310-817-2400,
Fax: +1-310-817-2399

