

Unbrako

Unbrako[®]
THE WORLD LEADER



INR PRICE LIST
No. DFL/07
Effective 15th May, 2012.



Limited Warranty And Exclusive Remedy

Deepak Fasteners through its Unbrako Division 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 our part of DFL 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.

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 authorised by Deepak Fasteners to give any other warranty, written or oral, pertaining to the products.

Disclaimer

All information contained in this catalogue 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 fastener Ltd (DFL) is subject to change.

Whilst every care has been taken to ensure that all information and technical data is accurate, DFL will not be liable to any customer that relies on any matter, fact or representation nor will it be liable for any subsequent damage or loss resulting from the use of any information contained in this catalogue. Customers are advised to make their own enquiries or seek independent advice regarding the fitness and suitability of the products listed.

Deepak Fasteners Ltd. has the right to change the price, specifications and other particulars contained in this pricelist, without any prior notice. The products listed in this catalogue might not be stocked at DFL at all times and customers are advised to enquire the availability of the same. E. & O.E.

Note

- Surface Finish : All the products, unless otherwise order, are supplied in black thermal finish with a coat of rust preventive oil.
- 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.
- 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.

The Price, specifications and other particulars contained in this pricelist are subject to change with notice.

Contents



Pages

Product Range - Quick Selector Guide	01
Thread Size Comparison	02
Socket Head Cap Screws (Metric)	03 - 07
Socket Head Cap Screws (Inch-BSW)	08 - 10
Socket Countersunk Head Screw (CSK)	11 - 12
Shoulder Bolt	13
Socket Set Screws (Metric)	14 - 15
Socket Set Screws (Inch)	16
Button Head Screws ISO (Metric)	17
Flange Button Head Screws ISO (Metric)	18
Durlok® Bolt	19
Durlok® Nut	20
Durlok® Washer	20
Hex Head Bolts / Screws (Metric)	21 - 25
Hex Head Bolts / Screws (Inch-UNC)	26 - 29
High Strength Structural Bolt	30 - 31
Stud Bolt with 2 Heavy Hex Nut (Metric) ASTM A193-B7 & A194-2H	32 - 34
Stud Bolt with 2 Heavy Hex Nut (Inch) ASTM A193-B7 & A194-2H	35 - 37
Heavy Hex Nut (Metric & Inches) ASTM A194	38
Hex Nut (Metric)	39
Hex Nut (Inch)	40
Nylock Nut (Metric)	40 - 41
Spring Washer (Metric) Square & Flat Section	42
Hardened Washer	42
Auto Torque Indicator (ATI Washers)	43
Weld Nut	43
Hexagon Wrenches Sets	44
Dowel Pins (Metric)	45 - 46
High Tensile Track Shoe Bolt & Square Nuts	47 - 48
Drop in Anchor	49
Comparison of different strength grades	50
How to identify UNBRAKO products	51

About Us



Unbrako

Unbrako is a single source, full service provider of engineered, high strength precision fasteners for industrial, infrastructure, petrochemical, automotive and other custom designed applications where Quality, Performance and Reliability make the difference. Unbrako products are primarily used in performance critical applications and incorporate unique design and workmanship features that enable them to withstand high fatigue loads and cycles over prolonged periods. Unbrako's manufacturing and engineering facilities operate around the clock to cater for the needs of its customers.



DFL Global Strength

Since 1911, Unbrako has been a 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. Today, Deepak Fasteners (DFL) along with its Unbrako division operates in over 35 countries across 4 continents and supplies the automotive, aerospace, engineering and construction industries with advanced products and sophisticated fastening solutions.



Commitment To Excellence

Unbrako is committed to total customer satisfaction. This is achieved through continuous improvement in every operational aspect, via Unbrako Quality Assurance system that aims at Zero defect manufacture and supply. Unbrako's True goal is to provide the best solution at optimal cost, every time and on time.

Capabilities

With advanced manufacturing, engineering and logistics facilities such as modern cold heading and thread rolling, state-of-the-art heat treatment plant and a sophisticated sourcing and logistics network, Unbrako provides a full-service package, designed to suit customer needs. Unbrako is equipped and prepared to provide technical support through the entire design, development and manufacturing/supply cycle. Unbrako's focus is on building long term relationships with its customers and raw material or part supply partners, ensuring better understanding of customer needs and resulting in superior customer satisfaction.



Supply Chain

Utilizing the international network of DFL and allied companies and focusing on the long term relationships, Unbrako, with ISO/TS accreditation, provides a full range of offerings including sourcing and procurement of complete range of industrial fastening hardware (bolts, screws, SEM's, nuts, studbolts, self locking fasteners, thread forming fasteners etc.) and full-service supply of complete hardware packages to a plant or production line. Full-service supply includes engineering and design support, procurement and purchasing services, localized warehousing and transport, a variety of packaging options and choice of delivery frequencies - they are all available to provide the right answer to any customer need.

Our Commitment To Quality



ISO 9001:2008



CE CERTIFIED: 14399 & 15048



ISO / TS 16949:2002



SELLIHCA ID. 108198



DELTA DORKEN APPROVAL



WRC PT/285/0609

Quick Production 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	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		
											7/16	14	18	0.438		
M12	1.75	14.5	1.25	20	12.00	0.472	1/2	13	20	0.500	1/2	12	16	0.500		
(M14)	2.00	12.5	1.50	17	14.00	0.551										
M16	2.00	12.5	1.50	17	16.00	0.630	5/8	11	18	0.625	5/8	11	14	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	1-1/2	6	12	1.500	1-1/2	6	8	1.500		
M36	4.00	6.40	3.00	8.5	36.00	1.417										
(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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Socket Head Cap Screw

Metric

Length	M2 WRENCH 1.5mm		
	International Part No.	Price/ 100 Pcs	Box Quantity
3	104151	1,250	500
4	104152	560	500
5	104154	570	500
6	104155	580	500
8	104157	590	500
10	104159	600	500
12	106216	620	500
16			
20			
25			
30			
35			
40			
45			

M2.5 WRENCH 2mm		
International Part No.	Price/ 100 Pcs	Box Quantity
104161	540	500
104162	560	500
104163	575	500
104164	590	500
104166	650	500

M3 WRENCH 2.5mm		
International Part No.	Price/ 100 Pcs	Box Quantity
106218	881	500
103002	759	500
122097	555	500
113583	464	500
120870	464	500
103003	486	500
113623	486	500
103010	508	200
103013	594	200
106219	742	200
406027	850	200
700034	940	200

Length	M4 WRENCH 3mm		
	International Part No.	Price/ 100 Pcs	Box Quantity
6	106223	755	500
8	113810	564	500
10	113839	447	500
12	121077	403	500
16	103014	421	500
20	105753	452	500
25	125381	468	500
30	103018	555	500
35	103019	608	200
40	103021	673	200
45	103022	769	200
50	103023	881	200
55	400835	1,415	200
60	180011	2,839	200
65			
70			
75			
80			
90			
100			
110			

M5 WRENCH 4mm		
International Part No.	Price/ 100 Pcs	Box Quantity
122122	551	500
122243	321	500
121094	321	500
103024	352	500
113970	378	200
121096	403	200
103029	464	200
115292	508	200
103030	555	200
103031	604	200
103035	608	200
103038	1,042	200
103040	1,337	200
106225	1,448	200
106228	1,559	200
700072	1,804	200
404774	1,906	200
181525	2,104	200

M6 WRENCH 5mm		
International Part No.	Price/ 100 Pcs	Box Quantity
103042	717	200
122111	475	200
120872	475	200
103044	452	200
119790	475	200
119937	532	200
122121	602	200
121090	659	200
121075	717	200
122087	776	200
112624	822	200
113128	920	200
122088	1,702	200
103047	1,765	200
103048	1,841	200
103049	2,014	200
103051	2,182	200
103052	2,344	200
103053	2,645	200
103054	3,474	100

Socket Head Cap Screw

Metric

Length	M8 WRENCH 6mm			M10 WRENCH 8mm			M12 WRENCH 10mm			M14 WRENCH 12mm		
	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
10	103056	921	200									
12	114972	695	200	106237	1,106	200						
16	103058	610	200	103080	1,029	200						
20	122086	605	200	113163	1,072	200	112607	2,606	100			
25	119351	673	200	115060	1,024	100	122250	2,283	100	400528	5,934	50
30	119383	742	200	122114	1,129	100	122251	2,168	100	400529	5,934	50
35	122113	806	200	113257	1,219	100	125530	2,207	100	400530	4,989	50
40	113143	875	200	100845	1,488	100	114996	2,227	100	400531	5,106	50
45	121076	1,021	200	121088	1,608	100	115075	2,499	50	400532	5,199	50
50	121068	1,076	200	125660	1,712	100	112360	2,318	50	120863	5,316	50
55	103063	1,187	100	103087	1,848	100	122255	2,702	50	400533	5,382	50
60	121070	1,277	100	122217	1,999	100	122260	2,860	50	112000	5,703	50
65	103064	1,389	100	103088	2,160	100	122261	3,003	50	400534	5,789	50
70	103066	1,485	100	125786	2,328	50	103098	3,163	50	400535	6,241	50
75	103069	1,575	100	103090	2,480	50	103099	3,307	50	400536	6,609	50
80	103070	2,272	100	103091	3,430	50	103100	3,969	50	400537	6,917	20
90	103073	2,637	100	103094	3,921	50	103103	4,487	50	400538	7,075	20
100	103075	3,128	100	103095	4,593	50	122142	4,958	50	400539	8,782	25
110	103076	3,909	100	103096	5,440	50	125791	6,106	25	400540	9,542	25
120	103077	4,565	50	103097	5,502	50	103104	7,020	25	400508	10,310	25
130	106230	5,540	50	106240	7,491	50	103107	8,306	25	180223	11,650	25
140	106231	5,950	50	106241	8,359	50	103108	9,261	25	180103	12,437	25
150	106232	6,426	50	106242	9,297	50	103110	10,238	25	180225	13,291	25
160	106233	6,855	100	106243	11,621	50	107456	16,880	25	180226	14,176	10
170				210001	12,814	25	181063	18,558	20	210002	15,062	10
180				106244	13,074	25	107458	18,558	20	180227	15,948	10
200							107459	20,091	20			
220							400570	21,625	20			
230							183555	27,840	20			
240							400571	32,466	20			
260							400572	37,101	20			
280							400573	39,956	20			

Grey highlighted items are full threaded

- 1. Specifications :** Generally conforming to IS : 2269, DIN : 912, ISO : 4762.
- 2. Threads :** ISO Metric (Coarse Series) 4g6g as per IS : 4218, ISO : 261, ISO : 965.
- 3. Material :** Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties :** Property Class 12.9 as per IS : 1367, ISO : 898 Part I.
- 5. Note :** Upto 80MM Dia can be manufactured against request.
- 6.** For sizes beyond those listed, prices on application.



Socket Head Cap Screw

Metric

Length	M16 WRENCH 14mm			M18 WRENCH 14mm			M20 WRENCH 17mm			M22 WRENCH 17mm		
	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
20	210003	5,679	50									
25	106248	5,679	50				210006	13,518	25			
30	103112	5,679	50	183894	15,937	20	107465	13,518	10			
35	103113	4,772	50	400541	16,136	20	107466	13,696	10			
40	125751	4,644	50	400542	14,130	20	103130	11,991	10			
45	103115	4,978	50	400606	14,233	25	103131	12,074	10			
50	112474	4,827	25	100844	14,343	10	103132	11,562	10	180181	16,667	10
55	103117	5,409	25	400543	14,432	10	103136	12,246	10	180182	18,750	10
60	112594	5,186	25	400544	14,549	10	103137	11,718	10	180183	19,273	10
65	103118	5,806	20	400545	14,666	25	103138	12,451	10	180184	21,465	10
70	103119	6,267	20	400546	15,663	10	103141	13,297	10	180185	21,864	10
75	103120	6,626	20	400547	16,687	10	103142	14,163	10	210007	23,178	10
80	125658	6,937	20	400549	17,010	10	103143	13,717	10	180186	24,361	10
90	103122	7,732	10	400550	17,354	10	103144	14,727	10	180187	25,557	10
100	103123	8,809	10	400551	18,206	10	103145	15,442	10	180188	26,946	10
110	103124	9,566	20	400548	20,145	25	103146	17,093	10	180189	29,311	10
120	103126	10,344	20	400552	22,065	15	103148	18,743	10	180190	31,676	5
130	103127	11,791	20	180311	24,567	10	103150	20,372	10	180191	41,660	5
140	103128	12,627	20	180229	26,534	10	103151	22,009	10	180192	48,673	5
150	103129	13,456	20	180407	28,506	10	103152	24,774	10	180193	64,892	5
160	103364	26,794	10	180230	30,407	10	107462	31,752	10	180194	76,485	5
170	180418	29,840	10	210005	36,009	10	180495	36,262	10			
180	107460	29,840	10	100231	41,612	10	107463	36,262	10	180196	81,841	5
200	107448	32,975	10				107464	37,823	10	180198	87,596	5
220	400574	38,063	10				400553	39,397	10	210008	96,246	5
230	182815	43,152	10				181001	50,571	5			
240	400575	44,720	10				400554	61,744	5	210009	103,891	5
260	400576	56,456	10				400555	75,742	5	210010	111,530	5
280	400577	68,186	10				400556	89,728	5	210011	119,169	5
300	400578	73,057	10				400557	96,137	5	210012	127,682	5

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.

Socket Head Cap Screw

Metric

Length	M24 WRENCH 19mm			M27 WRENCH 19mm			M30 WRENCH 22mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
45	103153	15,536	10						
50	103155	14,882	10						
55	103157	16,748	10						
60	103158	17,215	10				180207	31,321	5
65	103159	18,303	10				210014	31,105	5
70	103160	19,527	10	180326	34,118	5	116464	33,496	5
75	103161	20,688	10	210013	35,850	5	182283	35,893	5
80	103162	21,760	10	406161	37,211	5	140610	37,247	5
90	103163	22,826	10	406162	40,944	5	140611	39,129	5
100	103165	24,072	10	406163	43,674	5	140612	43,723	5
110	103166	26,169	10	406164	46,405	5	140613	46,453	5
120	103167	28,293	10	400607	49,134	5	140614	49,183	5
130	103168	30,412	5	406165	52,544	5	140615	52,597	5
140	103170	32,522	5	406166	54,593	5	140616	54,649	5
150	103171	34,646	5	400608	58,009	5	140617	58,072	5
160	104143	56,086	5	400609	91,447	5	140618	87,389	4
180	104146	60,183	5	406168	101,003	5	140620	96,514	4
200	104147	64,425	5	400579	109,880	5	140621	104,992	5
220	400560	68,949	5	180003	136,970	4	140622	130,376	3
240	400561	73,480	5	406171	151,773	4	140623	140,209	3
260	400562	75,777	5	406172	165,319	3	140624	149,994	2
280	400563	79,613	5	406173	176,444	3	140625	159,825	2
300	400564	85,301	5	406174	186,151	3	400626	169,657	2

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.



Socket Head Cap Screw

Length	M33 WRENCH 24mm			M36 WRENCH 27mm			M42 WRENCH 32mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
75	210015	53,912	5						
80	180254	55,961	5	140629	65,394	5			
90	400649	60,739	5	140630	71,397	5	182336	103,678	5
100	400628	63,469	5	140631	73,412	5	400645	110,493	12
110	180255	66,887	5	400632	77,399	4	700380	116,666	12
120	180256	73,013	5	140633	80,741	4	183113	123,425	10
130	405492	76,437	5	400634	83,416	4	182331	129,599	10
140	180257	81,216	4	140635	92,093	3	700383	136,420	9
150	180258	85,314	4	140636	95,414	3	180960	143,172	9
160	180259	112,953	4	140637	128,402	3	181289	194,795	9
180	180261	125,571	3	140639	143,468	3	182059	212,513	8
200	180263	136,490	3	140640	155,480	2	181290	230,231	7
220	210016	169,149	3	180294	192,237	2	400647	280,988	7
240	210017	182,219	3	140641	197,525	2	182510	301,072	6
260	210018	190,621	2	140642	211,544	9	700390	321,129	6
280	210019	201,114	2	180411	225,605	8	181291	341,205	6
300	210020	216,818	2	140643	239,672	8	180863	361,276	6

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.

Socket Head Cap Screw

Inch

Length	3/16 WRENCH 5/32" mm			1/4 WRENCH 3/16" mm			5/16 WRENCH 7/32" mm			3/8 WRENCH 5/16" mm		
	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
3/8	400056	405	200	400068	475	200						
1/2	400057	405	200	400069	475	200	400085	656	200	400101	993	200
5/8	400058	377	200	400070	452	200	400086	575	200	400102	933	200
3/4	400059	405	200	400071	475	200	400087	600	200	400103	851	200
7/8				400072	504	200	400088	625	200	400104	944	200
1	400061	454	200	400073	532	200	400089	669	200	400105	944	200
1-1/4	400062	501	200	400074	602	200	400090	767	200	400106	1,035	100
1-1/2	400063	573	200	400075	671	200	400091	858	200	400107	1,153	100
1-3/4	400064	686	200	400076	822	200	400092	1,014	200	400114	1,376	50
2	400065	686	200	400077	822	200	400093	1,014	200	400109	1,431	100
2-1/4	210021	772	200	400078	1,666	200	400094	1,218	200	400110	1,650	100
2-1/2	400066	858	200	400079	1,714	200	400095	1,218	100	400111	1,725	100
2-3/4				400080	1,951	200	404433	1,486	100	400112	1,984	100
3				400081	1,951	200	400096	1,486	100	400113	1,984	100
3-1/4				400082	2,338	200	701026	2,481	100	400114	2,906	50
3-1/2				400083	2,338	200	400098	2,481	100	400115	2,976	50
4				400084	2,576	100	400099	2,944	100	400116	3,493	50
4-1/2							400100	4,619	100	400117	5,150	50
5							701030	5,350	100	400118	6,282	50
5-1/2										400181	7,551	50
6										400119	7,776	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.



Socket Head Cap Screw

Inch

Length	7/16 WRENCH 5/16" mm			1/2 WRENCH 3/8" mm			5/8 WRENCH 1/2" mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
3/4				400130	2,606	100			
7/8				402942	2,606	100	210033	4,919	50
1	400121	2,225	100	400131	2,276	100	400150	4,919	50
1-1/4	400122	2,225	100	400132	2,385	100	400151	4,276	50
1-1/2	400123	2,269	100	400133	2,427	50	400152	4,425	50
1-3/4	400124	2,426	100	400134	2,594	50	400153	4,707	50
2	400125	2,426	100	400135	2,712	50	400154	4,931	20
2-1/4	210025	2,788	50	400136	3,125	50	400155	5,357	20
2-1/2	701059	2,921	50	400137	3,260	50	400156	5,357	20
2-3/4	210026	3,145	50	400138	3,540	50	400157	5,881	20
3	400127	3,295	20	400139	3,848	50	400158	5,881	20
3-1/4	210027	4,263	50	400140	4,602	50	701096	6,572	10
3-1/2	400128	4,263	50	400141	4,602	20	400159	6,858	10
4	400129	4,937	20	400142	5,323	25	400160	8,147	10
4-1/2	210028	7,089	50	400143	6,538	25	400161	8,644	15
5	210029	7,089	25	400144	7,831	25	400162	9,534	15
5-1/2	210030	8,082	50	400145	8,622	20	400163	11,839	20
6	210031	8,089	25	400146	8,925	20	400164	12,901	20
6-1/2				400147	17,705	20	400165	27,403	10
7				400148	18,565	15	400166	27,403	10
7-1/2				210032	19,293	15	210035	28,453	10
8				400149	20,104	25	400167	30,222	10
8-1/2							210036	39,547	10
9							210037	39,629	10
10							210038	51,855	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.

Socket Head Cap Screw

Inch

Length	3/4 WRENCH 9/16" mm			7/8 WRENCH 9/16" mm			1 WRENCH 5/8" mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
1	210039	12,277	50						
1-1/4	400168	12,277	10						
1-1/2	400169	10,827	10	400187	17,438	10	210054	15,902	15
1-3/4	400170	11,075	10	210043	18,127	10	210055	16,527	15
2	400171	11,075	10	400188	18,127	10	400194	17,314	10
2-1/4	400172	11,314	10	404637	19,527	10	404571	18,663	10
2-1/2	400173	11,314	10	400189	19,527	10	400195	18,663	10
2-3/4	400174	12,876	10	210044	21,959	10	210056	21,021	10
3	400175	12,876	10	400190	22,002	10	400196	21,021	10
3-1/4	400176	13,377	10	701133	24,266	10	210057	23,180	10
3-1/2	400177	13,377	10	400191	24,266	10	400197	23,180	10
4	400178	14,027	10	400192	25,602	10	400198	25,604	5
4-1/2	400179	17,052	10	701136	30,104	10	400199	28,681	5
5	400180	18,527	10	701137	32,341	10	400200	30,908	5
5-1/2	700121	20,501	10	210047	34,615	10	183785	33,069	5
6	400182	22,502	10	400193	36,867	10	400201	36,906	5
6-1/2	400183	29,566	10	210048	64,006	5	210059	59,068	5
7	400184	30,253	10	701139	64,006	5	400202	61,193	5
7-1/2	210040	30,940	10	210050	66,319	5	210060	63,381	5
8	400185	31,566	10	210051	67,757	5	400203	65,506	5
8-1/2	210041	36,628	10	210052	71,507	5	210061	71,632	5
9	400186	36,628	10	210053	71,507	5	210062	73,695	5
10	701127	40,698	5				210063	81,884	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.



Socket Countersunk Head Cap Screws (CSK)

Metric

Length	M3 WRENCH 2mm		M4 WRENCH 2.5mm		M5 WRENCH 3mm		M6 WRENCH 4mm		M8 WRENCH 5mm	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
6	106283	778								
8	103303	919	103309	499	103318	738				
10	103304	987	103311	499	103319	510	103328	564		
12	103305	1,059	103312	529	103320	529	103329	564	103337	736
16	103306	1,200	103313	569	103321	569	103330	617	103338	736
20	103308	1,341	103315	617	103322	612	103331	660	103340	788
25	106284	1,483	103316	719	103323	719	103332	773	103341	904
30			103317	869	103324	869	103333	889	103342	1,035
35			220001	1,803	106289	1,157	103334	1,011	103343	1,176
40			220002	1,929	220005	1,803	103335	1,157	103344	1,341
45			220003	2,170	220006	2,029	220008	2,060	106297	1,507
50			220004	2,411	220007	2,253	220009	2,576	220011	2,361
55							220010	2,833	220012	2,818
60									220013	3,074
Qty. Per Box	200									

1. **Note** : All sizes are fully threaded.
2. **Specification** : Generally conforming to IS : 6761, DIN 7991.
3. **Threads** : ISO Metric, 4g6g as per IS : 4218.
4. **Material** : UNBRAKO High Grade Alloy Steel.
5. **Mechanical Properties** : Property Class 12.9 as per IS : 1367, ISO : 898 Part - 1

Socket Countersunk Head Cap Screws (CSK)

Metric

Length	M10 WRENCH 6mm		M12 WRENCH 8mm		M16 WRENCH 10mm		M20 WRENCH 12mm		M24 WRENCH 14mm	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
16	103347	1,196								
20	103348	1,116								
25	103349	1,294	103354	2,179						
30	103350	1,483	103355	2,495	103359	4,689				
35	103351	1,705	103356	2,683	103360	5,054				
40	103352	1,955	103357	2,974	103361	5,414	106332	10,675		
45	106302	2,200	106311	3,275	106318	6,598	106334	11,452		
50	106303	2,483	103358	3,572	103362	6,138	106335	12,209	220032	19,735
55	106304	2,818	106312	4,421	106320	7,426	106336	12,958	220033	21,389
60	220014	3,074	106313	4,765	103363	7,836	106337	13,703	401689	23,042
65	220015	3,331	220020	5,420	183908	8,246	183912	14,480	220034	24,696
70	220016	3,587	220021	5,837	106321	8,657	106338	15,257	401690	26,350
75	220017	4,612	220022	6,254	220025	9,831	183913	16,585	220035	28,004
80	220018	4,918	220023	6,672	220026	10,275	106339	20,615	401691	29,657
90	220019	5,534			106325	11,231	106341	21,428	401692	32,965
100					629621	12,477	106342	24,514	401693	37,485
110							220029	27,105	701356	42,005
120							220030	29,692	183179	46,526
130							220031	31,980	701358	51,046
Qty. Per Box	100		50		25		10		5	

■ Quantity per box 200
 ≡ Quantity per box 25

- Note** : All sizes are fully threaded.
- Specification** : Generally conforming to IS : 6761, DIN 7991.
- 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.



Socket Head Shoulder Screws

Length	M6 (M5) WRENCH 3 mm			M8 (M6) WRENCH 4 mm			M10 (M8) WRENCH 5 mm			M12 (M10) WRENCH 4 mm		
	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
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

Length	M16 (M12) WRENCH 8 mm			M20 (M16) WRENCH 10 mm			M24 (M20) WRENCH 12 mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
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

- Specification :** 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.

Separate catalogue is available on request







Socket Set Screws (Grub Screws) Metric

Knurled cup point

Length	M3 Wrench 1.5 mm		M4 Wrench 2 mm		M5 Wrench 2.5 mm		M6 Wrench 3 mm		M8 Wrench 4 mm	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
3	104076	310								
4	103172	314	103182	270						
5	103175	318	103185	270	103194	187				
6	103176	322	103186	274	103195	191	103207	191	180002	366
8	103177	327	103187	278	103196	191	103208	207	103224	230
10	103178	344	103188	298	103197	207	103209	234	103227	234
12	103179	366	103189	314	103198	238	103211	261	103228	291
16	103180	458	103191	449	103199	291	103212	343	103229	344
20	551093	506	103193	520	103202	339	103214	371	103230	446
25			701961	563	103203	392	103217	465	103231	552
30			406498	1,079	103204	546	103218	632	103235	645
35			551679	1,365	181179	848	103219	942	103236	887
40			551680	1,755	551094	1,008	103220	1,065	103237	1,050
45							103221	1,165	701998	1,148
50							103222	1,371	103240	1,279
55									551095	2,210
60									551096	2,412
65									551097	2,791
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 POINT SHOWN BELOW WILL BE 25% EXTRA.

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

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



Knurled Cup Point

Socket Set Screws (Grub Screws)





Metric

Length	M10 Wrench 5 mm		M12 Wrench 6 mm		M16 Wrench 8 mm		M20 Wrench 10 mm	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
8	180099	420						
10	103241	326	551687	625				
12	103244	369	103256	539				
16	103245	493	103258	644	106352	1,429		
20	103246	608	103259	795	103274	1,438	104149	4,704
25	103247	736	103260	1,091	103276	1,949	103286	5,249
30	103249	1,060	103261	1,261	103277	2,308	103287	6,068
35	103251	1,224	103262	1,712	103278	2,886	103288	6,918
40	103252	1,358	103263	1,899	103279	3,346	103289	7,736
45	103253	1,555	103269	2,109	103281	3,706	103290	8,588
50	103254	1,854	103270	2,302	103282	4,447	103292	9,395
55	551098	2,982	103271	3,975	103283	5,644	103293	11,110
60	183091	3,325	103272	4,464	103284	6,208	103294	11,805
65	551099	3,470	551100	5,568	551102	7,154	551105	13,304
70			551101	5,998	182790	9,106	551106	14,043
75					551103	10,209	551107	15,268
80					551104	10,890		
Qty. Per Box	100				50			

■ Quantity 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 POINT SHOWN BELOW WILL BE 25% EXTRA.
- 6.** Bold black lines are used to indicate quantity per box.

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

				
	FLAT	CONE	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)

Inch

Length	3/16 Wrench 3/32" mm		1/4 Wrench 1/8" mm		5/16 Wrench 5/32" mm		3/8 Wrench 3/16" mm	
	International Part No.	Price/100 Pcs	International Part No.	Price/100 Pcs	International Part No.	Price/100 Pcs	International Part No.	Price/100 Pcs
3/16	400949	187						
1/4	400951	191	400961	212				
5/16	400952	191	400963	230	400986	230		
3/8	400953	207	400965	234	400977	234	400988	274
1/2	400954	227	400967	238	400978	243	400989	369
5/8	551209	256	400969	310	400979	301	400990	448
3/4	400956	331	400970	471	400980	394	400991	538
1	400957	467	400972	472	400982	552	400993	658
1 1/4			400973	534	400984	671	400994	946
1 1/2			400974	903	400983	1,323	400995	1,678
1 3/4			551108	1,143	551109	1,413	400996	2,026
2			180730	1,242	400985	1,673	400997	2,392
Qty. Per Box	200						100	

Length	1/2 Wrench 1/4" mm		5/8 Wrench 5/16" mm		3/4 Wrench 3/8" mm	
	International Part No.	Price/100 Pcs	International Part No.	Price/100 Pcs	International Part No.	Price/100 Pcs
1/2	401003	641				
5/8	401005	700	401015	1,653		
3/4	401006	884	401016	1,750	401024	3,774
1	401008	1,091	401017	2,021	401025	4,544
1 1/4	401009	1,523	401018	2,554	551110	5,598
1 1/2	401003	3,635	401019	4,924	401026	7,786
1 3/4	401012	4,605	401020	6,461	401027	9,166
2	401013	5,037	401021	5,874	401028	10,784
2 1/2	401014	6,342	401022	8,560	401029	13,201
3	702408	7,776	401023	10,390	401030	15,903
Qty. Per Box	100		50			

1. **Specification** : As per standard ASME/ANSI:B18.3.

2. **Threads** : BS Whitworth, Medium as per BS : 84

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

4. **Mechanical Properties** : As per BS : 2470.

5. **NOTE** : **PRICES FOR SPECIAL POINTS 25% EXTRA.**

6. Socket set screws with BSF/UNC/UNF threads can also be manufactured subject to MOQ. Price on request.

7. Bold black lines are used to indicate quantity per box.

ISO Metric Button Head Socket Screws



Length	M3 Wrench 2mm			M4 Wrench 2.5mm			M5 Wrench 3mm			M6 Wrench 4mm		
	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
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	106331	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	106375	844	200
30							106370	1,008	200	106378	880	200

Length	M8 Wrench 5mm			M10 Wrench 6mm			M12 Wrench 8mm		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
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

- 1. Specification :** Generally conforming to BS: 4168.
- 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 BS: 6104, ISO: 898 Part-I.

New



Metric Flange Button Socket Screws

Length	M3 Wrench 2mm		
	International Part No.	Price/ 100 Pcs	Box Quantity
6	404977	1,158	200
8			
10			
12			
16			
20			
25			

M4 Wrench 2.5mm		
International Part No.	Price/ 100 Pcs	Box Quantity
404982	1,020	200
404983	1,185	200
404984	1,313	200
404986	1,571	200

M5 Wrench 3mm		
International Part No.	Price/ 100 Pcs	Box Quantity
404988	1,055	200
404989	1,149	200
404991	1,384	200
404992	1,454	200
404994	1,548	200

Length	M6 Wrench 4mm		
	International Part No.	Price/ 100 Pcs	Box Quantity
10	180079	1,513	200
12	404997	1,489	200
16	404999	1,747	200
20	405001	1,996	200
25	405003	2,310	200
30	405004	2,626	200
40			

M8 Wrench 5mm		
International Part No.	Price/ 100 Pcs	Box Quantity
405005	3,213	200
405007	1,454	200
405009	1,688	200
405011	1,899	200
405012	2,193	200
405013	2,486	200
405015	3,049	200

M10 Wrench 6mm		
International Part No.	Price/ 100 Pcs	Box Quantity
405016	2,931	200
405017	3,283	200
405018	3,729	200
405019	4,186	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.

New

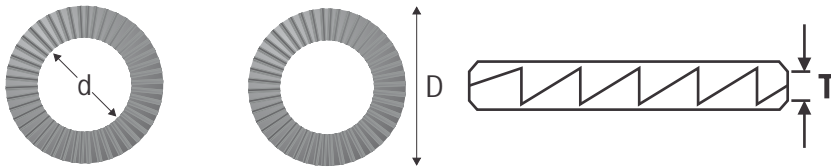


Durlok® Nuts

Length	International Part No	Price/100 Pcs	Box Quantity
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



Length	International Part No	Price/100 Pcs	Box Quantity	Length	International Part No	Price/100 Pcs	Box Quantity
M3	183790	1,899	200	M16L	184798	8,611	100
M3.5	183791	1,899	200	M18	183800	8,611	100
M3.5L	184790	1,899	200	M18L	184799	15,196	100
M4	183792	1,899	200	M20	183801	8,611	100
M4L	184791	1,899	200	M20L	184800	15,196	100
M5	183793	1,899	200	M22	183802	11,903	100
M5L	184792	2,026	200	M22L	184801	22,540	100
M6	183794	2,026	200	M24	183803	15,196	100
M6L	184793	2,153	200	M24L	184802	27,352	50
M8	183795	2,153	200	M27	183804	21,907	50
M8L	184794	2,533	200	M27L	184803	27,352	25
M10	183796	2,533	200	M30	183805	23,553	50
M10L	184795	3,799	200	M30L	184804	34,697	25
M12	183797	4,052	200	M33	183806	26,592	25
M12L	184796	5,952	100	M33L	184805	34,697	25
M14	183798	5,952	100	M36	183807	33,304	25
M14L	184797	8,611	100	M39	183808	34,697	25
M16	183799	5,572	100	M42	183809	36,976	25

d = Inner Dia, T = Taper, D = Outer Dia, L = Larger Outer Dia

* Inch series on request. * Stainless Steel prices available on request.



Hex Head Bolts/Screws

Metric

Length	M18			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
35				170190	6,649	25			
40	170171	5,940	25	170191	6,649	25			
45	170172	6,191	25	170192	6,965	25			
50	170173	6,383	25	170193	6,867	25	170215	9,860	10
55	170174	6,819	25	170194	7,854	25	170216	10,618	10
60	170175	7,033	25	170195	7,909	25	170217	10,966	10
65	170176	7,270	25	170196	8,219	10	170218	11,743	10
70	170177	7,941	25	170197	8,102	10	170219	12,151	10
75	170178	8,405	10	170198	9,051	10	170220	12,569	10
80	170179	8,421	10	170199	9,318	10	170221	13,080	10
90	170180	8,946	10	170200	9,902	10	170222	13,932	10
100	170181	9,912	10	170201	10,472	10	170223	14,860	10
110	170182	10,449	10	170202	11,869	10	170224	16,176	10
120	170183	11,531	10	170203	12,635	10	170225	17,290	10
130	170184	12,057	10	170204	13,748	10	170226	18,219	10
140	170185	12,584	10	170205	14,671	10	170227	19,131	10
150	170186	13,475	10	170206	14,419	10	170228	20,030	10
160	170187	14,512	10	170207	17,167	10	170229	22,848	5
180	170188	16,099	10	170208	20,100	10	170230	24,813	5
200	170189	17,394	10	170209	21,662	10	170231	26,809	5
220	240020	19,133	10	170210	30,053	5	170232	41,179	5
240	240021	20,874	10	170211	31,560	5	170233	44,607	5
260	240022	22,614	10	170212	33,068	6	170234	46,321	5
280	240023	24,354	8	170213	36,075	6	170235	51,485	5
300	240024	26,093	8	170214	39,066	6	170236	55,163	5

Grey highlighted items are full threaded

- Specifications :** Generally conforming to IS : 1364, ISO : 4014/4017, DIN 931/933.
- Threads :** ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties :** Property Class 10.9 as per IS : 1367.
- Note :** Shaded size are fully threaded. 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.

Hex Head Bolts/Screws

Metric

Length	M24			M27			M30		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
50	170237	12,430	10	170259	24,917	5	170281	33,029	5
55	170238	11,894	10	170260	24,917	5	170282	33,029	5
60	170239	12,940	10	170261	24,917	5	170283	33,029	5
65	170240	13,390	10	170262	24,917	5	170284	33,029	5
70	170241	14,194	10	170263	24,917	5	170285	33,029	5
75	170242	14,705	10	170264	26,796	5	170286	33,029	5
80	170243	16,079	10	170265	28,040	5	170287	34,372	5
90	170244	17,170	10	170266	30,528	5	170288	37,311	5
100	170245	18,571	10	170267	33,029	5	170289	40,152	5
110	170246	19,411	5	170268	35,616	5	170290	44,166	5
120	170247	20,371	10	170269	36,519	5	170291	45,142	5
130	170248	21,485	5	170270	37,721	5	170292	47,175	5
140	170249	22,507	5	170271	40,110	5	170293	50,101	5
150	170250	23,606	5	170272	42,498	5	170294	52,914	3
160	170251	28,188	5	170273	46,936	5	170295	59,867	3
170	240025	29,417	5						
180	170252	30,648	5	170274	51,925	5	170296	65,931	3
190	240026	31,856	5						
200	170253	33,063	5	170275	56,560	5	170297	71,923	5
220	170254	47,400	5	170276	77,944	4	170298	86,777	3
240	170255	49,099	5	170277	84,048	4	170299	92,883	3
260	170256	50,798	4	170278	89,561	3	170300	99,001	3
280	170257	55,866	4	170279	95,059	3	170301	105,107	2
300	170258	68,296	4	170280	99,518	3	170302	111,199	2

Grey highlighted items are full threaded

- Specifications** : Generally conforming to IS : 1364, ISO : 4014/4017, DIN 931/933.
- Threads** : ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties** : Property Class 10.9 as per IS : 1367.
- Note** : Shaded size are fully threaded. 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.



Hex Head Bolts/Screws

Metric

Length	M33			M36			M42		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
75	170303	45,338	5						
80	170304	47,939	5	170320	57,352	5			
90	170305	50,850	5	170321	61,719	3	170336	90,508	3
100	170306	54,455	5	170322	64,206	3	170337	95,709	2
110	170307	58,553	4	170323	68,573	4	170338	100,939	2
120	170308	59,952	4	170324	69,902	3	170339	101,716	2
130	170309	63,175	4	170325	73,563	3	170340	106,012	10
140	170310	67,090	4	170326	77,760	3	170341	111,912	10
150	170311	70,934	4	170327	81,929	3	170342	117,798	9
160	170312	74,240	4	170328	90,027	3	170343	123,692	9
180	170313	81,293	3	170329	104,400	2	170344	134,928	8
200	170314	88,430	3	170330	113,163	2	170345	141,033	7
220	170315	106,946	3	170331	135,678	2	170346	180,902	7
240	170316	114,831	2	170332	145,450	9	170347	194,329	6
260	170317	123,438	2	170333	155,210	8	170348	207,797	6
280	170318	132,002	2	170334	164,989	8	170349	221,239	6
300	170319	140,554	2	170335	198,059	7	170350	234,672	6

Grey highlighted items are full threaded

- Specifications** : Generally conforming to IS : 1364, ISO : 4014/4017, DIN 931/933.
- Threads** : ISO Metric 6g as per IS:4218.
- Material and Mechanical Properties** : Property Class 10.9 as per IS : 1367.
- Note** : Shaded size are fully threaded. 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.

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

Length	1/4			5/16			3/8			1/2		
	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
1/2	170351	399	500	170364	532	500	170381	857	200			
5/8	170352	495	500	170365	510	500	170382	857	200			
3/4	170353	450	500	170366	487	200	170383	747	200	170400	1,609	100
7/8	170354	406	500	170367	532	200	170384	902	200	170401	1,596	100
1	170355	443	200	170368	530	200	170385	737	200	170402	1,695	100
1-1/4	170356	450	200	170369	583	200	170386	823	200	170403	1,878	100
1-1/2	170357	502	200	170370	715	200	170387	930	100	170404	2,003	50
1-3/4	170358	550	200	170371	802	200	170388	1,086	100	170405	2,169	25
2	170359	604	200	170372	848	200	170389	1,191	100	170406	2,361	25
2-1/4	170360	663	200	170373	939	100	170390	1,306	100	170407	2,607	25
2-1/2	170361	738	200	170374	1,031	100	170391	1,433	100	170408	2,776	25
2-3/4	170362	812	200	170375	1,114	100	170392	1,596	100	170409	3,005	25
3	170363	887	200	170376	1,173	100	170393	1,691	100	170410	3,371	25
3-1/4	240027	1,022	200	170377	1,251	100	170394	1,870	50	170411	3,615	25
3-1/2	240028	1,034	200	170378	1,348	100	170395	1,922	50	170412	3,739	25
3-3/4	240029	1,103	100	170379	1,664	100	170396	2,356	25	170413	3,935	25
4	240030	1,183	100	170380	1,838	100	170397	2,533	25	170414	4,099	25
4 1/4							170398	2,816	25	170415	4,353	25
4 1/2							170399	2,981	25	170416	4,742	25
5							240034	3,312	50	170417	5,180	25
5 1/2							240035	3,643	50	170418	6,324	25
6							240036	3,974	50	170419	7,678	25
6-1/2										240037	9,432	25
7										170420	11,536	20
7 1/2										170421	12,363	25
8										170422	13,187	25

Grey highlighted items are full threaded

- Specifications** : Generally conforming to ANSI B 18.2.1 for BSF BS : 1083
- Threads** : Unified Coarse, 2A as per ANSI B1.1. For BSF BS : 84.
- Material & Mechanical Properties** : Grade 8 as per SAE J 429 for BSF BS : 1083.
- Note** : Non-shaded sizes if required in full thread will cost 10% extra. BSF threading will cost 15% extra
: Upto 4 Inch Dia can be manufactured against request.



Hex Head Bolts/Screws

Inch

Length	5/8			3/4			7/8			1		
	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
1	170423	2,962	25									
1.1/4	170424	3,306	25									
1.1/2	170425	3,468	25	170445	6,087	25				170487	13,298	10
1.3/4	170426	3,700	25	170446	6,317	25				170488	13,298	10
2	170427	3,887	25	170447	6,731	25	170467	15,914	10	170489	13,978	10
2.1/4	170428	4,232	25	170448	7,392	25	170468	15,914	10	170490	14,520	10
2.1/2	170429	4,631	25	170449	7,755	25	170469	12,832	10	170491	15,186	10
2.3/4	170430	5,005	25	170450	8,460	10	170470	12,832	10	630407	16,191	10
3	170431	5,394	25	170451	8,792	10	170471	13,443	10	170493	17,734	10
3.1/4	170432	5,744	25	170452	9,178	10	170472	14,826	10	170494	18,420	10
3.1/2	170433	6,085	25	170453	9,921	10	170473	14,826	10	170495	19,195	10
3 3/4	170434	6,730	25	170454	10,649	10	170474	15,906	10	170496	21,129	10
4	170435	6,908	25	170455	11,142	10	170475	16,664	10	170497	21,129	10
4 1/4	170436	7,149	25	170456	11,416	10	170476	17,666	10	170498	23,296	10
4 1/2	170437	7,415	25	170457	11,944	10	170477	18,508	10	170499	23,296	5
5	170438	8,347	25	170458	12,706	10	170478	19,914	10	170500	25,994	5
5 1/2	170439	9,603	20	170459	14,268	10	170479	20,980	10	170501	28,095	5
6	170440	10,066	10	170460	14,648	10	170480	22,268	10	170502	29,395	5
6.1/2	170441	11,744	10	170461	15,829	10	170481	23,500	5	170503	31,878	5
7	170442	12,648	10	170462	15,829	10	170482	25,940	5	170504	34,359	5
7.1/2	170443	13,551	10	170463	17,008	10	170483	27,282	5	170505	36,763	5
8	170444	13,798	10	170464	18,637	10	170484	28,485	5	170506	38,465	5
9				170465	19,484	10	170485	32,366	5	170507	43,259	5
10				170466	21,920	8	170486	33,865	5	170508	47,436	4
11				240038	23,298	8				170509	49,809	4
12										170510	54,336	4

Grey highlighted items are full threaded

1. **Specifications** : Generally conforming to ANSI B 18.2.1 for BSF BS : 1083
2. **Threads** : Unified Coarse, 2A as per ANSI B1.1. For BSF BS : 84.
3. **Material & Mechanical Properties** : Grade 8 as per SAE J 429 for BSF BS : 1083.
4. **Note** : Non-shaded sizes if required in full thread will cost 10% extra. BSF threading will cost 15% extra
: Upto 4 Inch Dia can be manufactured against request.

Hex Head Bolts/Screws

Inch

Length	1-1/8			1-1/4			1-3/8		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
1	170511	14,937	5						
1.1/4	170512	16,199	5						
1.1/2	170513	17,677	10						
1.3/4	170514	18,276	10						
2	170515	19,680	10						
2.1/4	170516	21,092	5						
2.1/2	170517	22,297	5	170534	29,529	5	170551	35,756	5
2.3/4	170518	23,500	5	170535	30,932	5	170552	37,360	5
3	170519	24,904	5	170536	32,336	5	170553	39,169	5
3.1/4	170520	26,315	5	170537	34,146	5	170554	41,378	5
3.1/2	170521	27,518	5	170538	35,756	5	170555	43,388	5
3.3/4	170522	28,922	5	170539	37,560	5	170556	45,597	5
4	170523	30,326	5	170540	39,169	4	170557	47,606	5
4.1/4	170524	31,737	5	170541	40,773	5	170558	49,815	4
4.1/2	170525	33,141	5	170542	42,583	4	170559	51,825	4
5	170526	35,756	5	170543	45,996	5	170560	56,044	4
5.1/2	170527	38,564	5	170544	49,210	3	170561	60,262	3
6	170528	41,179	5	170545	52,630	4	170562	64,481	3
7	170529	46,602	3	170546	59,257	3	170563	72,718	3
7.1/2	170530	49,210	5	170547	62,471	3	170564	76,937	3
8	170531	52,024	3	170548	65,884	3	170565	81,155	3
9	170532	72,718	4	170549	72,718	3	170566	89,590	2
10	170533	62,870	3	170550	79,343	3	170567	98,028	2

Grey highlighted items are full threaded

1. **Specifications** : Generally conforming to ANSI B 18.2.1 for BSF BS : 1083
2. **Threads** : Unified Coarse, 2A as per ANSI B1.1. For BSF BS : 84.
3. **Material & Mechanical Properties** : Grade 8 as per SAE J 429 for BSF BS : 1083.
4. **Note** : Non-shaded sizes if required in full thread will cost 10% extra. BSF threading will cost 15% extra
: Upto 4 Inch Dia can be manufactured against request.



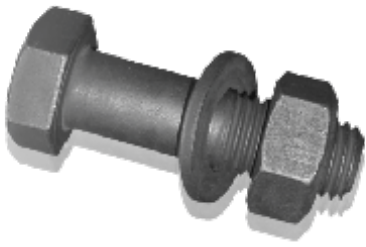
Hex Head Bolts/Screws

Inch

Length	1-1/2			1-3/4			2		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
2.1/2	170568	44,991	5	170585	72,662	3	170602	101,725	2
2.3/4	170569	47,201	5	170586	75,738	3	170603	105,904	2
3	170570	49,416	5	170587	78,825	3	170604	109,871	2
3.1/4	170571	51,419	4	170588	82,128	2	170605	114,050	2
3.1/2	170572	54,034	4	170589	85,205	2	170606	118,237	2
3.3/4	170573	56,443	4	170590	88,509	2	170607	122,423	2
4	170574	59,057	3	170591	92,258	2	170608	126,602	2
4.1/4	170575	61,466	3	170592	95,999	2	170609	130,789	2
4.1/2	170576	64,080	3	170593	99,740	2	170610	135,631	2
5	170577	69,097	3	170594	107,231	2	170611	145,543	2
5.1/2	170578	74,121	3	170595	114,714	2	170612	155,228	2
6	170579	79,145	2	170596	122,205	2	170613	165,139	2
7	170580	88,786	2	170597	136,732	2	170614	183,853	2
7.1/2	170581	93,809	3	170598	143,996	2	170615	193,765	2
8	170582	98,832	2	170599	151,704	2	170616	203,668	2
9	170583	108,873	2	170600	166,678	2	170617	223,046	2
10	170584	118,920	2	170601	181,651	2	170618	242,862	2

Grey highlighted items are full threaded

- Specifications :** Generally conforming to ANSI B 18.2.1 for BSF BS : 1083
- Threads :** Unified Coarse, 2A as per ANSI B1.1. For BSF BS : 84.
- Material & Mechanical Properties :** Grade 8 as per SAE J 429 for BSF BS : 1083.
- Note :** Non-shaded sizes if required in full thread will cost 10% extra. BSF threading will cost 15% extra
: Upto 4 Inch Dia can be manufactured against request.



High Strength Structural Bolts

Metric

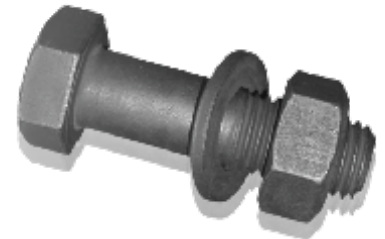
Length	M16			M20			M22		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
40	300001	4,118	25	300021	7,611	25			
45	300002	4,485	25	300022	8,190	25			
50	300003	4,718	25	300023	8,565	25	300041	11,615	10
55	300004	4,873	25	300024	8,943	25	300042	11,944	10
60	300005	5,197	25	300025	9,558	20	300043	12,434	10
65	300006	5,481	25	300026	9,977	20	300044	13,570	10
70	300007	5,791	25	300027	10,335	10	300045	14,216	10
75	300008	6,199	25	300028	10,728	10	300046	14,660	10
80	300009	6,807	25	300029	11,033	10	300047	15,176	10
90	300010	7,139	25	300030	11,725	10	300048	16,685	10
100	300011	7,744	25	300031	12,402	10	300049	17,064	10
110	300012	8,363	25	300032	12,882	10	300050	18,420	10
120	300013	8,822	15	300033	13,974	10	300051	19,639	10
130	300014	10,590	10	300034	15,027	10	300052	20,735	10
140	300015	10,758	10	300035	15,492	10	300053	21,683	10
150	300016	12,755	10	300036	16,328	10	300054	22,737	10
160	300017	13,805	10	300037	19,447	10	300055	25,801	5
170	300018	14,660	10	300038	20,271	10	300056	26,882	5
180	300019	15,515	10	300039	21,097	10	300057	27,961	5
200	300020	17,500	10	300040	23,660	10	300058	30,058	5

1. Specifications : Bolts IS : 3757, Nuts : IS 6623, Washers : IS 6649.

2. Threads : Bolts ISO Metric 6g as per IS:4218.

3. Material and Mechanical Properties :

Bolts: Property Class 10.9S as per IS : 1367. Nuts: Property Class 10S as per IS : 1367.



High Strength Structural Bolts

Metric

Length	M24			M27			M30		
	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	15,125	10						
60	300060	15,660	10	300076	31,887	5			
65	300061	16,961	10	300077	33,378	5			
70	300062	17,223	10	300078	33,153	5			
75	300063	18,734	10	300079	35,430	5	300092	42,794	5
80	300064	19,095	10	300080	37,022	5	300093	44,309	5
90	300065	21,100	5	300081	39,334	5	300094	45,533	5
100	300066	22,664	5	300082	42,230	5	300095	48,828	5
110	300067	23,219	5	300083	43,967	5	300096	53,153	5
120	300068	24,129	5	300084	45,191	5	300097	54,184	5
130	300069	25,176	5	300085	46,485	5	300098	56,787	5
140	300070	26,257	5	300086	49,279	5	300099	60,152	5
150	300071	27,443	5	300087	52,044	5	300100	63,398	5
160	300072	31,184	5	300088	57,323	5	300101	71,590	4
170	300073	33,800	5	300089	63,259	5	300102	78,699	4
180	300074	35,327	5	300090	63,119	5	300103	78,573	4
200	300075	37,953	5	300091	68,499	5	300104	85,479	4

High Strength Structural Nuts (Metric)

Diameter	M16	M20	M22	M24	M27	M30
International Part No.	131001	131002	131003	131004	131005	131006
Price	2013	4074	4756	6828	11044	13979
Box	100	50	50	25	10	10

Hardened & Tempered Washers (Type A) Metric

Diameter	M16	M20	M22	M24	M27	M30
International Part No.	132001	132002	132003	132004	132005	132006
Price	1275	1595	2270	2401	3859	4803
Box	200	100	100	100	100	100

1. **Specifications :** Bolts IS : 3757, Nuts : IS 6623, Washers : IS 6649.
2. **Threads :** Bolts ISO Metric 6g as per IS:4218.
3. **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



Stud Bolt With 2 Heavy Hex Nuts

Metric

Length	M12		M16		M18		M20		M22	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
60	350001	3,153	350013	6,070						
70	350002	3,460	350014	6,575	350033	9,222				
80	350003	3,734	350015	7,079	350034	9,889	350055	12,659		
90	350004	4,002	350016	7,592	350035	10,554	350056	13,432	350078	17,725
100	350005	4,278	350017	8,173	350036	11,211	350057	14,289	350079	18,383
110	350006	4,546	350018	8,640	350037	11,831	350058	15,062	350080	18,812
120	350007	4,822	350019	9,184	350038	12,498	350059	15,850	350081	19,823
130	350008	5,136	350020	9,689	350039	13,126	350060	16,661	350082	20,794
140	350009	5,526	350021	10,203	350040	13,784	350061	17,480	350083	21,766
150	350010	5,802	350022	10,707	350041	14,366	350062	18,268	350084	22,777
160	350011	6,070	350023	11,326	350042	15,024	350063	19,080	350085	23,756
170	350012	6,384	350024	11,831	350043	15,658	350064	19,898	350086	24,728
180			350025	12,375	350044	16,317	350065	20,373	350087	25,745
190			350026	12,888	350045	16,937	350066	21,184	350088	26,641
200			350027	13,432	350046	17,595	350067	22,003	350089	27,644
210			350028	13,937	350047	18,223	350068	22,784	350090	28,624
220			350029	14,442	350048	18,850	350069	23,603	350091	29,634
230			350030	14,986	350049	19,507	350070	24,375	350092	30,613
240			350031	15,497	350050	20,128	350071	25,195	350093	31,624
250			350032	16,003	350051	20,794	350072	26,013	350094	32,596
260					350052	21,421	350073	26,794	350095	33,613
270					350053	22,041	350074	27,605	350096	34,585
280					350054	22,699	350075	28,433	350097	35,604
290							350076	29,205	350098	36,575
300							350077	30,023	350099	37,579
320									350100	39,568

Material Specifications : Stud Bolts to ASTM A193 Gr. B7
Heavy Hex Nuts conforming to ASTM A194 Gr. 2H



Stud Bolt With 2 Heavy Hex Nuts

Metric

Length	M24		M27		M30		M33		M36	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
90	350101	19,637								
100	350102	21,108								
110	350103	22,661	350126	31,157						
120	350104	23,442	350127	32,987	350151	41,671				
130	350105	24,613	350128	34,508	350152	43,225	350180	54,798		
140	350106	25,783	350129	35,986	350153	45,177	350181	57,093	350208	71,941
150	350107	26,947	350130	37,502	350154	47,129	350182	59,542	350209	74,696
160	350108	28,119	350131	38,976	350155	49,073	350183	61,838	350210	77,451
170	350109	29,288	350132	40,502	350156	50,626	350184	64,134	350211	80,206
180	350110	30,414	350133	42,062	350157	52,578	350185	66,584	350212	82,961
190	350111	31,585	350134	43,624	350158	54,530	350186	68,420	350213	85,258
200	350112	32,711	350135	45,177	350159	56,090	350187	70,869	350214	88,013
210	350113	34,424	350136	46,738	350160	58,035	350188	73,165	350215	90,767
220	350114	35,604	350137	48,293	350161	59,978	350189	75,614	350216	93,538
230	350115	36,766	350138	49,463	350162	61,931	350190	78,216	350217	96,355
240	350116	37,929	350139	50,986	350163	63,881	350191	81,124	350218	98,573
250	350117	39,100	350140	52,501	350164	66,997	350192	83,267	350219	101,329
260	350118	40,272	350141	53,987	350165	68,940	350193	85,716	350220	104,084
270	350119	41,443	350142	55,502	350166	70,885	350194	87,247	350221	106,687
280	350120	42,605	350143	56,986	350167	72,807	350195	89,544	350222	109,442
290	350121	43,777	350144	58,456	350168	74,788	350196	91,839	350223	113,421
300	350122	44,826	350145	59,978	350169	76,342	350197	93,829	350224	116,024
320	350123	47,244	350146	62,979	350170	80,237	350198	98,420	350225	121,533
340	350124	49,578	350147	65,979	350171	83,742	350199	103,165	350226	127,044
360	350125	51,919	350148	68,987	350172	87,247	350200	107,451	350227	132,555
380			350149	71,979	350173	91,142	350201	112,196	350228	137,759
400			350150	74,979	350174	94,655	350202	116,482	350229	142,962
420					350175	98,153	350203	121,227	350230	148,473
440					350176	102,049	350204	125,513	350231	153,524
460					350177	105,554	350205	130,105	350232	159,188
480					350178	109,449	350206	134,391	350233	164,545
500					350179	112,962	350207	139,289	350234	169,902

Material Specifications : Stud Bolts to ASTM A193 Gr. B7

Heavy Hex Nuts conforming to ASTM A194 Gr. 2H

Stud Bolt With 2 Heavy Hex Nuts

Metric

Length	M39		M42		M45		M48		M52		M56	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
150	350235	92,298										
160	350236	95,359	350261	117,707								
170	350237	98,728	350262	121,533	350286	147,386						
180	350238	101,635	350263	125,513	350287	151,542	350310	181,994				
190	350239	104,696	350264	129,341	350288	155,958	350311	187,045	350333	220,872		
200	350240	108,217	350265	133,320	350289	160,259	350312	192,097	350334	226,536		
210	350241	111,279	350266	137,147	350290	164,851	350313	197,301	350335	232,200	350355	269,700
220	350242	114,493	350267	141,141	350291	168,907	350314	202,199	350336	238,781	350356	276,283
230	350243	117,707	350268	144,892	350292	173,927	350315	207,404	350337	244,292	350357	283,170
240	350244	120,768	350269	148,794	350293	178,167	350316	212,454	350338	250,568	350358	289,599
250	350245	124,289	350270	152,307	350294	182,453	350317	217,505	350339	256,537	350359	296,334
260	350246	127,350	350271	156,126	350295	187,045	350318	222,710	350340	262,660	350360	303,069
270	350247	130,564	350272	160,106	350296	191,637	350319	227,761	350341	268,476	350361	309,344
280	350248	133,625	350273	164,100	350297	196,689	350320	232,812	350342	274,752	350362	316,080
290	350249	140,361	350274	167,920	350298	201,281	350321	237,941	350343	280,721	350363	322,967
300	350250	143,422	350275	171,754	350299	206,638	350322	242,915	350344	286,843	350364	329,396
320	350251	148,014	350276	179,561	350300	215,669	350323	252,863	350345	299,089	350365	342,254
340	350252	154,137	350277	187,045	350301	222,097	350324	263,578	350346	309,957	350366	355,723
360	350253	160,106	350278	192,862	350302	230,822	350325	273,680	350347	322,355	350367	368,887
380	350254	166,841	350279	198,679	350303	239,700	350326	283,782	350348	334,294	350368	382,204
400	350255	172,963	350280	206,026	350304	245,670	350327	293,885	350349	346,386	350369	395,520
420	350256	179,086	350281	213,526	350305	253,476	350328	304,141	350350	350,978	350370	408,378
440	350257	185,515	350282	220,567	350306	261,282	350329	314,242	350351	362,764	350371	421,541
460	350258	191,637	350283	228,067	350307	269,089	350330	324,498	350352	374,397	350372	435,011
480	350259	197,913	350284	235,444	350308	277,048	350331	334,601	350353	386,030	350373	448,175
500	350260	205,107	350285	243,015	350309	284,701	350332	344,702	350354	397,969	350374	461,337

Material Specifications : Stud Bolts to ASTM A193 Gr. B7
Heavy Hex Nuts conforming to ASTM A194 Gr. 2H



Stud Bolt With 2 Heavy Hex Nuts

Inch

Length	1/2		5/8		3/4		7/8		1	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
2.1/4	550309	4,210								
2.3/4	550310	4,516	550322	7,714						
3	550311	4,830	550323	8,189	550338	12,636				
3.1/2	550312	5,136	550324	8,656	550339	13,370	550353	19,484		
4	550313	5,450	550325	9,123	550340	14,120	550354	20,510	550368	27,996
4.1/2	550314	5,764	550326	9,590	550341	14,863	550355	21,521	550369	29,312
4.3/4	550315	6,077	550327	10,057	550342	15,583	550356	22,539	550370	30,643
5	550316	6,391	550328	10,524	550343	16,332	550357	23,565	550371	31,991
5.1/2	550317	6,696	550329	10,997	550344	17,067	550358	24,567	550372	33,322
6	550318	7,010	550330	11,457	550345	17,816	550359	25,562	550373	34,623
6.1/2	550319	7,638	550331	12,597	550346	19,302	550360	27,552	550374	37,272
7	550320	7,952	550332	13,064	550347	19,806	550361	28,624	550375	38,603
7.1/2	550321	8,258	550333	13,570	550348	20,541	550362	29,388	550376	40,134
8			550334	14,542	550349	21,949	550363	31,379	550377	42,123
8.1/2			550335	15,054	550350	22,654	550364	32,405	550378	43,669
9			550336	15,520	550351	23,397	550365	33,368	550379	45,232
9.1/2			550337	16,034	550352	24,093	550366	34,364	550380	45,997
10							550367	36,354	550381	48,752
10.1/2									550382	49,930
11									550383	51,490
11.1/2									550384	52,654

Material Specifications : Stud Bolts to ASTM A193 Gr. B7
Heavy Hex Nuts conforming to ASTM A194 Gr. 2H

Stud Bolt With 2 Heavy Hex Nuts

Inch

Length	1-1/8		1-1/4		1-1/2		1-5/8	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
4-1/2	550385	39,782						
4-3/4	550386	41,328	550406	53,420				
5	550387	43,287	550407	55,394				
5-1/2	550388	44,879	550408	57,339	550429	91,156		
6	550389	46,378	550409	59,695	550430	94,136	550458	112,503
6-1/2	550390	49,900	550410	63,981	550431	100,395	550459	119,774
7	550391	51,490	550411	65,926	550432	103,517	550460	123,371
7-1/2	550392	53,021	550412	67,885	550433	107,146	550461	127,044
8	550393	56,558	550413	72,171	550434	113,268	550462	134,238
8-1/2	550394	58,119	550414	74,528	550435	116,329	550463	137,759
9	550395	59,695	550415	76,074	550436	119,391	550464	141,739
9-1/2	550396	61,640	550416	78,415	550437	122,835	550465	145,412
10	550397	64,777	550417	82,716	550438	129,111	550466	152,300
10-1/2	550398	66,691	550418	84,661	550439	132,172	550467	156,126
11	550399	68,251	550419	86,956	550440	134,376	550468	159,494
11-1/2	550400	69,798	550420	88,946	550441	136,228	550469	163,168
12	550401	73,333	550421	93,064	550442	142,350	550470	170,974
12-1/2	550402	74,872	550422	95,206	550443	145,412	550471	174,647
13	550403	76,679	550423	97,334	550444	148,473	550472	178,780
13-1/2	550404	80,191	550424	101,635	550445	154,749	550473	185,668
14	550405	81,905	550425	103,778	550446	158,040	550474	189,801
14-1/2			550426	105,921	550447	161,101	550475	193,474
15			550427	108,064	550448	164,163	550476	197,301
15-1/2			550428	112,349	550449	170,285	550477	204,188
16					550450	173,269	550478	208,015
16-1/2					550451	176,331	550479	211,536
17					550452	179,239	550480	215,210
17-1/2					550453	185,515	550481	222,710
18					550454	188,882	550482	226,536
18-1/2					550455	192,097	550483	229,903
19					550456	198,220	550484	237,557
19-1/2					550457	201,281	550485	241,231
20							550486	244,904
20-1/2							550487	248,577
21							550488	255,619
22							550489	263,272

Material Specifications : Stud Bolts to ASTM A193 Gr. B7

Heavy Hex Nuts conforming to ASTM A194 Gr. 2H



Stud Bolt with 2 Heavy Hex Nuts

Inch

Length	1-3/4		1-7/8		2		2-1/4	
	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs	International Part No.	Price/ 100 Pcs
6-1/2	550490	145,412	550521	170,361				
7	550491	150,004	550522	175,030				
7-1/2	550492	154,137	550523	180,296				
8	550493	162,708	550524	190,259				
8-1/2	550494	166,841	550525	195,083	550554	231,128		
9	550495	171,433	550526	200,133	550555	236,486	550585	316,233
9-1/2	550496	175,719	550527	205,107	550556	242,302	550586	323,579
10	550497	184,597	550528	214,827	550557	253,782	550587	338,274
10-1/2	550498	188,882	550529	219,802	550558	259,599	550588	345,927
11	550499	193,245	550530	224,394	550559	264,955	550589	353,274
11-1/2	550500	197,462	550531	229,598	550560	270,925	550590	360,622
12	550501	206,324	550532	239,393	550561	282,330	550591	375,468
12-1/2	550502	210,465	550533	244,292	550562	288,145	550592	382,815
13	550503	214,903	550534	251,870	550563	293,885	550593	390,316
13-1/2	550504	223,169	550535	259,446	550564	304,905	550594	405,163
14	550505	227,386	550536	264,604	550565	310,722	550595	412,894
14-1/2	550506	231,618	550537	269,394	550566	316,233	550596	420,010
15	550507	235,950	550538	273,986	550567	322,048	550597	427,357
15-1/2	550508	244,483	550539	285,007	550568	333,682	550598	439,297
16	550509	248,761	550540	289,752	550569	339,193	550599	446,491
16-1/2	550510	253,062	550541	294,651	550570	344,702	550600	453,991
17	550511	257,608	550542	299,549	550571	350,519	550601	461,032
17-1/2	550512	265,606	550543	309,497	550572	361,616	550602	476,032
18	550513	269,133	550544	314,549	550573	367,356	550603	483,227
18-1/2	550514	274,216	550545	319,600	550574	373,020	550604	490,420
19	550515	283,737	550546	329,396	550575	384,193	550605	505,115
19-1/2	550516	287,915	550547	334,448	550576	390,010	550606	512,248
20	550517	292,324	550548	339,804	550577	395,061	550607	519,349
20-1/2	550518	296,411	550549	344,702	550578	401,030	550608	526,697
21	550519	305,058	550550	354,346	550579	412,511	550609	541,544
22	550520	313,660	550551	364,601	550580	424,296	550610	555,932
23			550552	379,601	550581	440,980	550611	572,004
24			550553	389,397	550582	452,614	550612	592,592
25					550583	469,910	550613	613,944
26					550584	480,624	550614	628,638
27							550615	650,526

Heavy Hex Nut (ASTM A194 GR2H)

Metric

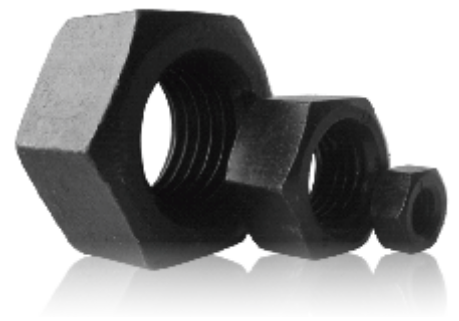
Size	International Part No.	Price/100 Pcs.	Box Quantity
M16	270001	1,609	150
M18	270002	2,399	100
M20	270003	3,112	75
M22	270004	3,810	50
M24	270005	5,336	50
M27	270006	7,993	25
M30	270007	11,262	25
M33	270008	14,494	20
M36	270009	19,848	10
M39	270010	25,320	10
M42	270011	32,916	8
M45	270012	40,384	5
M48	270013	49,271	5
M52	270014	61,388	4
M56	270015	71,470	4

Heavy Hex Nuts (ASTM A194 GR2H)

Inch

Size	International Part No.	Price/100 Pcs.	Box Quantity
1/2"	270016	1,153	200
9/16"	270017	1,427	175
5/8"	270018	2,087	125
3/4"	270019	3,401	75
7/8"	270020	5,222	50
1"	270021	7,468	30
1-1/8"	270022	10,406	25
1-1/4"	270023	14,414	15
1-3/8"	270024	18,700	15
1-1/2"	270025	24,029	10
1-5/8"	270026	29,724	8
1-3/4"	270027	37,430	6
1-7/8"	270028	44,225	6
2"	270029	90,471	5





Hex Nuts

Size (mm)	Grade	International Part No	PRICE	Pcs. Per Box	Pcs. Per Cartoon
M6 X 1	8	550303	129	500	9000
M8 X 1.25	8	550304	177	200	2400
M10 X 1.5	8	550305	359	200	2400
M12 X 1.75	8	550306	552	200	1600
(M12) X 1.5	10	170623	928	200	2400
M12 X 1.75	10	170622	928	200	2400
(M14) X 1.5	10	170625	1,077	100	800
(M14) X 2	10	170626	1,077	100	800
M16 X 2	8	550307	1,100	100	800
M16 X 2	10	170627	1,409	100	800
(M18) X1.5	10	170629	2,012	100	600
(M18) X 2.5	10	170630	2,012	100	600
M20X 1.5M	10	170631	2,697	50	300
M20 X 2.5	10	170632	2,710	50	300
(M22) X 2.5	10	170633	3,115	50	200
M24 X 3	10	170634	4,659	50	200
(M27) X 3	10	170635	7,523	25	150
M30 X 3.5	10	170636	10,291	25	150
(M33) X 3.5	10	170637	14,158	10	80
M36 X 4	10	170638	19,238	10	80
M39 X 4	10	170639	24,928	10	40
M42 X 4.5	10	170640	30,619	10	40
M45 x 4.5	10	170641	36,580	10	40
M48 x 5	10	170642	44,070	10	40
M52 x 5	10	170643	54,924	4	16
M56 x 6	10	170644	70,993	4	16
M60 X 6	10	550301	133,110	3	12
M64 x 6	10	170645	141,984	3	12
M72 X 6	10	550302	241,500	2	8

- 1. Specifications :** For Nuts with Metric Threads IS : 1364, ISO 4032
- 2. Threads :** ISO Metric 6H as per is : 4218, iso 261, iso 965.
- 3. Material Mechanical Properties :** Property Class as tabulated as per IS : 1367, ISO 898, Part-II.
- 4. Note :** Size in brackets are non-preferred standards.

Hex Nuts

Size (mm)	Grade	International Part No	Price/ 100 Pcs	Pcs. Per Box	Pcs. Per Cartoon
1/4	8	170646	142	500	9000
5/16	8	170647	196	500	9000
3/8	8	170648	297	200	2400
7/16	8	170658	678	200	1600
1/2	8	170649	678	200	1600
5/8	8	170650	1409	200	1600
3/4	8	170651	2485	50	400
7/8	8	170652	3350	50	200
1	8	170653	5000	50	200
1-1/8	8	170654	7434	25	150
1-1/4	8	170655	10016	25	100
1-3/8	8	170656	13466	25	100
1-1/2	8	170657	17398	10	40

- Specifications :** For Nuts with UNC Threads : (ANSI B 18.2.2).
- Threads :** Unified Coarse, 2B As Per ANSI B1.1.
- Material Mechanical Properties :** Grade as tabulated as per SAE J 995.

Nylock Nut (Din 982, ISO 7040 Grade-8) Blue Ring

(Duly Mechanical White Zinc Plated)

Size (mm)	International Part No	Price/ 100 Pcs	Pcs. Per Box	Pcs. Per Cartoon
M6	630448	146	500	9000
M8	630449	263	200	2400
M10	630450	579	200	2400
M12	630451	829	200	2400
M12X1.5	630452	880	200	2400
M14	630453	1,349	100	800
M16	630454	1,669	100	800
M16x1.5	630455	1,786	100	800
M20M	630456	3,541	50	300
20x1.5	630457	3,789	50	300





Nylock Nut (Din 982, ISO 7040 Grade-10) Blue Ring

(Duly Mechanical White Zinc Plated)

Size (mm)	International Part No	Price/ 100 Pcs	Pcs. Per Box	Pcs. Per Cartoon
M10	630458	669	200	2400
M12	630459	966	200	2400
M16	630460	1,998	100	800
M16X1.5	630461	2,079	100	800
M20	630462	3,756	50	300
M24	630463	8,360	50	200



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

(Duly Mechanical White Zinc Plated)

Size (mm)	International Part No	Price/ 100 Pcs	Pcs. Per Box	Pcs. Per Cartoon
M6	290001	101	500	9000
M8	290002	201	200	2400
M10	290003	437	200	2400
M12	290004	640	200	2400
M12X1.5	290005	686	200	2400
M14	290006	1,051	100	800
M16	560957	1,353	100	800
M16x1.5	630379	1,448	100	800
M20M	630380	3,053	50	300
20x1.5	630381	3,266	50	300



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

(Duly Mechanical White Zinc Plated)

Size (mm)	International Part No	Price/ 100 Pcs	Pcs. Per Box	Pcs. Per Cartoon
M10	630305	517	200	2400
M12	630306	764	200	2400
M16	290007	1,628	100	800
M16X1.5	290008	1,683	100	800
M20	290009	3,243	50	300
M24	290010	6,592	50	200





Spring Washer - Square Section

Size (mm)	International Part No.	Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton	Size (mm)	International Part No.	Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton
3MM	171758	12	2000	160000	18MM	171767	187	100	2400
4MM	171759	14	2000	90000	20MM	171768	345	100	1500
5MM	171760	17	2000	48000	22MM	171769	386	50	1000
6MM	171761	19	1000	30000	24MM	171770	514	50	1200
8MM	171762	32	1000	24000	27MM	171771	589	50	700
10MM	171763	57	500	12000	30MM	171772	911	50	500
12MM	171764	67	500	7000	33MM	171773	1,073	25	400
14MM	171765	112	200	4800	36MM	171774	1,561	25	350
16MM	171766	169	100	3000	39MM	171775	1,688	25	250

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



Spring Washer - Flat Section

Size (mm)	International Part No.	Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton	Size (mm)	International Part No.	Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton
3MM	171776	12	2000	140000	18MM	171785	300	100	1800
4MM	171777	14	2000	120000	20MM	171786	429	100	1400
5MM	171778	18	2000	60000	22MM	171787	486	50	800
6MM	171779	32	1000	32000	24MM	171788	726	50	700
8MM	171780	51	1000	14000	27MM	171789	809	50	700
10MM	171781	74	500	7000	30MM	171790	1,307	50	500
12MM	171782	111	500	5000	33MM	171791	2,089	25	200
14MM	171783	171	200	3200	36MM	171792	2,188	25	350
16MM	171784	259	100	3000	39MM	171793	2,297	25	250

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



Unbrako Hardened Washer For 10.9 Bolts

Size (mm)	International Part No.	Price 100 Pcs	Pcs/Box	Pcs/Carton
M12	551111	414	500	4000
M16	551112	725	200	1600
M20	551113	1,099	100	800
M24	551114	1,550	100	600

1. **Specifications :** Generally conforming to 300HV - 370HV. For Unbrako Hardened Washer 10.9 Bolts





Auto Torque Indicator Washer (ATI) For 8.8S 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



Auto Torque Indicator Washer (ATI) For 10.9S 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

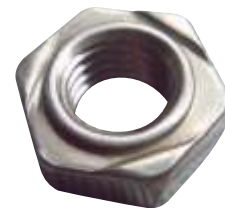


1. **Specification** : Generally conforming to BS-EN-14399-09

Note : Separate catalogue can be provided on request.

Hexagon Weld Nut

Size	International Part No.	Price 100 Pcs	Pcs/Box	Pcs/Carton
M6	136004	123	500	9000
M8	136001	214	200	2400
M10	136002	392	200	2400
M12	136003	558	200	1600



1. **Specification** : Generally conforming to DIN 929



Hexagon Wrenches Sets


Length	International Part No	Price/ 100 Pcs	Box Quantity
1/16	108468	1,024	100
5/64	110164	1,129	100
3/32	110180	1,129	100
1/8	110213	1,129	100
5/32	110246	1,338	100
3/16	115915	1,731	100
7/32	115948	2,355	50
1/4	115981	3,411	50
5/16	115997	5,667	25
3/8	116013	8,383	25
1/2	116046	19,342	10
9/16	116063	24,748	10
5/8	116080	36,136	10
3/4	116096	58,435	10

Length	International Part No	Price/ 100 Pcs	Box Quantity
1.5	125648	1,024	100
2	122263	1,024	100
2.5	122270	1,024	100
3	121093	1,129	100
4	119953	1,772	100
5	122245	2,162	100
6	121066	3,077	50
8	115557	5,795	50
10	120859	9,671	25
12	120806	18,194	25
14	111100	26,761	25
17	138487	42,325	10
19	111133	58,406	10
22	402603	92,056	5
24	402604	123,772	5
27	402605	208,371	2
32	402606	366,444	2

STANDARD (METRIC)

Sets	Wrenches Box Set	Part No	Price	Box
Standard (Metric)	 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, Set of 9	402616	318	50

STANDARD (INCH)

Sets	Wrenches Box Set	Part No	Price	Box
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	334	50

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).



Dowel Pins

Metric

Length	M2			M3		
	International Part No	Price/ 100 Pcs	Box Quantity	International Part No	Price/ 100 Pcs	Box Quantity
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

Length	M4			M5		
	International Part No	Price/ 100 Pcs	Box Quantity	International Part No	Price/ 100 Pcs	Box Quantity
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.

Dowel Pins

Metric

Length	M6			M8			M10		
	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity	International Part No.	Price/ 100 Pcs	Box Quantity
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

Length	M12			M16		
	International Part No	Price/ 100 Pcs	Box Quantity	International Part No	Price/ 100 Pcs	Box Quantity
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.



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 in Rs. Per 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
205.32.51210	M18 x 1.5 x 57	T.S. Bolt	PC220	330003	8,506
01803.01824	M18 x 1.5	T.S. Sq. Nut	PC220	330004	3,999
150.32.11210	M19 x 1.5 x 65	T.S. Bolt	D80, D80A 12	330005	10,633
113CT51096	M19 x 1.5 x 62	T.S. Bolt	D80, D80A 12	330006	10,633
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
176.32.11210	M24 x 1.5 x 76.2	T.S. Bolt	D155	330009	18,962
178.32.11220	M24 x 1.5	T.S. Sq. Nut	D155	330010	7,165
195.32.11210	M27 x 1.5 x 82	T.S. Bolt	D355	330011	24,810
195.32.11221	M 27 x 1.5	T.S. Sq. Nut	D355	330012	10,331

SUITABLE FOR L & T POCLAIN EARTHMOVERS

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	Price in Rs. Per 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
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

- 1. Specification :** Forged from High Grade Alloy Steel.
- 2. Mechanical Properties :** Track Shoe Bolt Grade 12.9, Square Nut HRC 32-38

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 in Rs. Per 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
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
7H 3599	7/8" UNF x 2.66"	T.S. Bolt	D8	330014	14,532
2S2140	7/8" UNF	T.S. Sq. Nut	D8	330015	6,165
9M 7445	1" UNF x 2.94"	T.S. Bolt	D8	330021	20,734
1S6421	1" UNS	T.S. Sq. Nut	DS9	330022	8,498

SUITABLE FOR HM-TEREX & HM DEMAG EARTHMOVERS

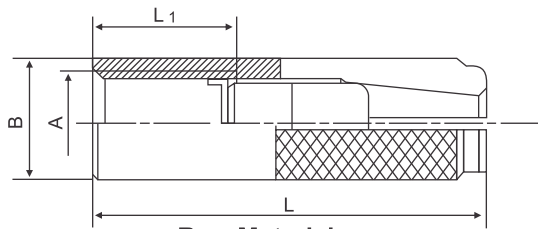
Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	Price in Rs. Per 100 Pcs
01801340	3/4"xUNFx2.3/4"	T.S. Bolt	H31, H36, H41	630419	11,650
06400140	3/4" UNF	T.S. Sq. Nut	H36	330020	4,333
06327940	7/8" UNFx3.11/32"	T.S. Bolt	H51, H55	330023	17,190
06400240	7/8" UNF	T.S. Sq. Nut	H51	330015	6,165

1. **Specification** : Forged from High Grade Alloy Steel.

2. **Mechanical Properties** : Track Shoe Bolt Grade 12.9, Square Nut HRC 32-38



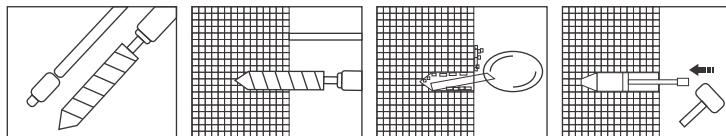
Drop In Anchors



Raw Material:

Special steel developed by UNBRAKO USA

DROP IN ANCHORS HAMMER SET ANCHORS



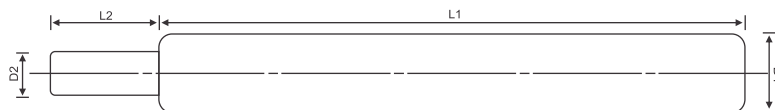
Value Are In KN

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	Cartoon Quantity	Price Per 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	630269	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

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

PRODUCTS	METRIC SERIES	PRODUCTS	INCH SERIES
Socket Head Cap Screw M3 to M5		Socket Head Cap Screw 1/8" to 3/16"	
Socket Head Cap Screw M6 to M24		Socket Head Cap Screw 3/16" to 3/8"	
Socket Head Cap Screw M27 to M42		Socket Head Cap Screw 1/2" to 1"	
Socket Counter Sunk Cap Screw M3 to M16		Socket Counter Sunk Cap Screw 1/4" to 5/6"	
Socket Set Screw 1.5 A/F		Socket Set Screw 1.8" to 3/4" (1/8 to 3/4")	
Hexagon Wrenches 1.5 A/F to 3 A/F		Hexagon Wrenches 1/16" A/F to 1/8	
Hexagon Wrenches 4 A/F to 32 A/F		Hexagon Wrenches 5/32" A/F to 3/4" A/F	
Hexagon Head Bolts M4 to M42	 	Hexagon Head Bolts All Sizes	 
Hexagon Nut M12 to M42	 	Hexagon Head Bolts All Sizes	 
High Strength Structural Bolts M16 To M30	 	Hexagon Nuts All Sizes	 
High Strength Structural Bolts M16 To M30	 		
Washers For High Strength Structural Bolts			
Special / Auto OEM Replacement Market Bolts & Nuts		Special / Auto OEM Replacement Market	
Hex Head Bolt/Screws M16 to M36 SS-304/316	   		
Stud With Two NUTs M12 to M56	 	Stud with Two NUTs 1/2 to 2-1/4	 

According to stamping area on the Product Unbrako/U-130 Stamp will be used
NOTE:- "E" Marking on SHCS, is the internal coding it can be changed with any alphabetic

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