



PRICE LIST

DFL-11, w.e.f. Oct, 2018

Socket Screws	11
Durlok [®]	31
Hex Bolt, Nut & Washer	35
Construction	51
Stainless Steel	59
Petrochemical	79

Largest Industrial Fasteners Manufacturer in India

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.
GST extra as applicable.

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About Unbrako



West Coast Distribution Center

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 work-manship 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. .

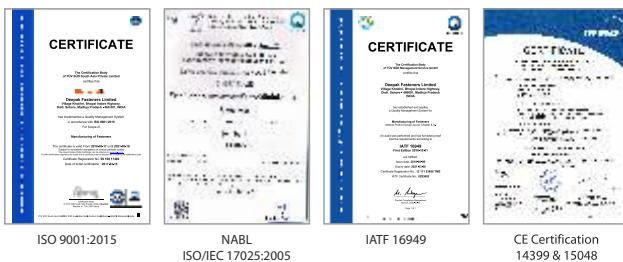
With advanced manufacturing, engineering and logistics facilities, ISO/TS and CE certification, Unbrako is equipped to provide technical support and full-service package. Unbrako's focus is on building long - term relationships with its customers. Full-service includes engineering and design support, 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.



Certified Laboratory

Our Laboratory is NABL ISO/IEC 17025:2005 certified, which facilitates in maintaining consistently high quality. The fasteners go through strict quality checks at every stage of the process. Our inspection facilities are equipped with state-of-the-art equipment for testing of both physical and metallurgical aspects of fasteners for the most demanding applications:

- Tensile & Hardness testing
- Salt spray testing
- Digital profile analysis
- X-ray analysis of coating thickness
- Chemical composition analysis (Spectrometer)
- Impact Testing
- Dynamic fatigue testing
- Torque tension and friction testing
- Eddy current Testing
- Metallurgical Microscope with Image Analyzer



International Certifications

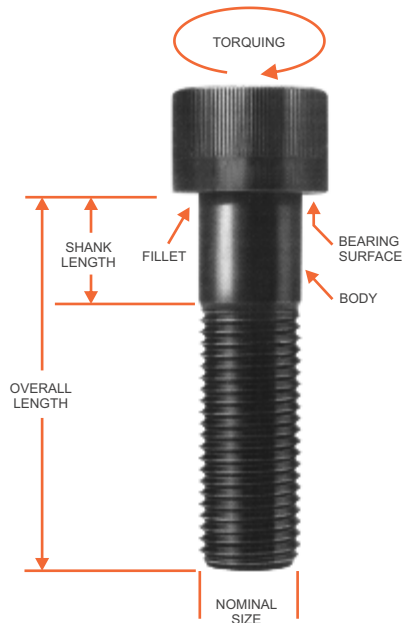
Our production facilities are ISO 9001, IATF 16949, ISO 14001 and BS OHSAS 18001 Certified. Our fasteners meet or exceed International Standards like DIN, ISO, ASTM, IS, BS etc. We have expertise not only in standard products, but also in made-to-order customized products.

Specialized Coatings

We excel in a variety of coatings, which are done in-house. These are designed to provide required protection in different environments, e.g. Hot Dip Galvanizing, Mechanical Galvanizing, Electroplating (Zinc & Copper Cadmium), PTFE Coating, Zinc-Al Flake Coating (Geomet, Delta Protekt) and Unbrako Wiscoat Coating.



Product Terminology



BODY

The unthreaded portion of the shank of a threaded fastener.

FILLET

Concave junction between the head and shank.

HEAD

A headed fastener has one end enlarged into a preformed shape.

OVERALL LENGTH

The Overall length of a headed fastener is the distance from intersection between the bearing surface & the ExtremeEnd point fastener, measured parallel to the axis of the fastener. The length of a headless fastener is the distance from one extreme end to the other end, also measured parallel to the fastener.

NOMINAL SIZE

It is the basic major diameter of the thread.

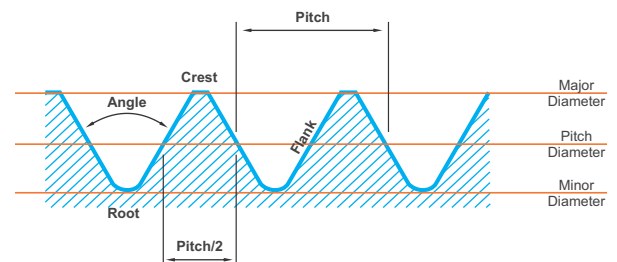
SHANK

The Shank Length is minimum length of the unthreaded cylindrical portion of the shank.

TORQUING

It is the act of tightening a fastener by turning either the bolt or nut.

Thread Terminology



CREST

The outermost tip of a male thread as seen in a thread profile.

FLANK

The thread surface connecting the crest with the root.

BEARING SURFACE

The supporting or locating surface of a fastener with respect to the part it fastens or mates.

MAJOR DIAMETER

The largest diameter of a thread.

MINOR DIAMETER

The smallest diameter of a thread.

PITCH

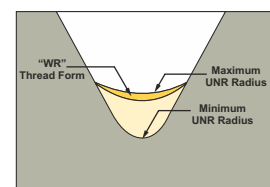
The distance from a point on a screw thread to the corresponding point on the next screw thread.

PITCH DIAMETER

Is the diameter of a theoretical cylinder that passes through the threads at a position that the width of thread ridge and thread groove are equal.

ROOT

The Root of the thread is the bottom of the groove between two flank.



Thread Terminology

THREAD LAPS

Are surface defects caused by the folding over of metal in the thread.



THREAD RUNOUT

is the area between the thread and shank or head of the fasteners. The Unbrako radiused root runout provides a smooth form that distributes stress and increases the life of the fastener considerably.

THREAD STRESS AREA

The area of a cylindrical bar of the same material and properties as the thread and capable of supporting the same ultimate tensile load.

Mechanical Terminology

CREEP

Deformation that occurs over a period of time when a fastener is subjected to a constant stress at a constant high temperature.



ELONGATION

is the increase in the thread length or a fastener that would occur during tightening or loading.



ENDURANCE LIMIT

The strength level below which a bolt or joint member will have an essentially infinite life under cyclic loading.

FATIGUE LIFE

is the number of cycles of fluctuating stress and strain of a specified nature that a fastener will sustain before failure occurs.



IMPACT TEST

A test to determine the energy absorbed in fracturing a test bar at high velocity.

PROOF LOAD

is a specified test load which a fastener must withstand without any indication of failure.

PROOF TEST

is any specified test required for a fastener to indicate that is suitable for the purpose intended.

ROCKWELL HARDNESS (Hrc)

This is a specific method of measuring the hardness of a fastener. The "c" denotes a specific size indenter which penetrates the surface of the prepared specimen.

SHEAR JOINT

A joint in which the fastener has the load applied across the axis and which tends to sever it.

SHEAR STRENGTH

This is the maximum strength of the fastener when it is subjected to shear (transverse) loading.



TENSILE STRENGTH

Is the force or stress required to break a fastener when the force or stress is applied in straight tension.



TENSION JOINT

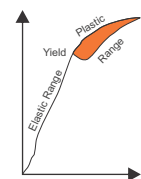
A joint in which the fastener has the load applied to the longitudinal direction and which tends to elongate it.

TORSION

is the twisting force applied to a fastener during tightening.

YIELD STRENGTH

This is the maximum force or stress that can be applied to a fastener without permanent (plastic) deformation occurring.



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	BA	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

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

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 / 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.

Socket Screws

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27	Flange Button Head Socket Screws
28	Hexagon Wrench Sets
29	Dowel Pins



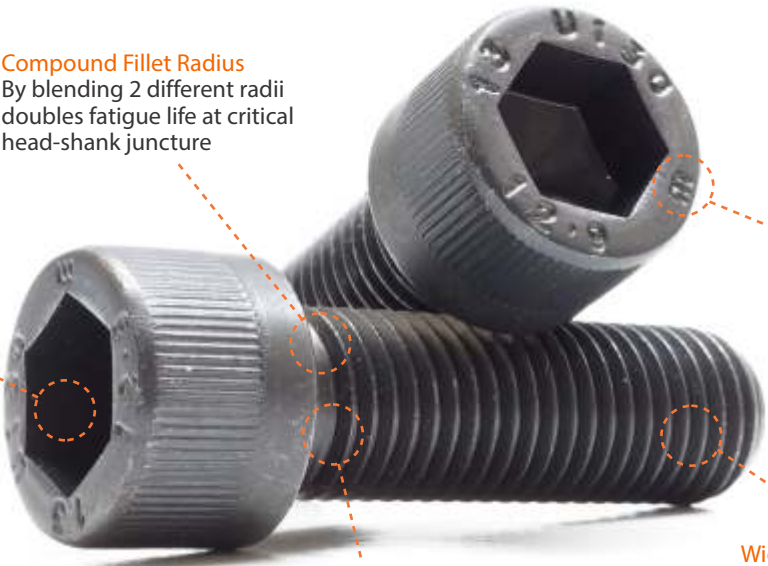
Unbrako Socket Range

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

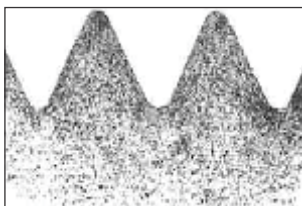
Patented E-Code™ "Lot Code" Markings
The ultimate in fastener traceability

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.

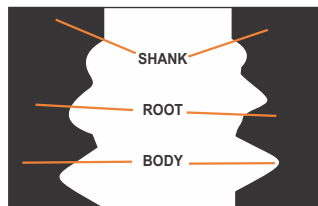
Contour flow & root radius



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.

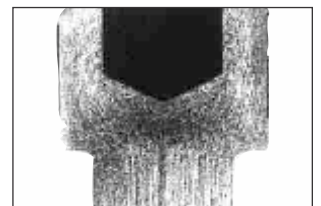
The sharp angle at the root of conventional threads results in high stress concentration and crack initiation points.

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

Diameter	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	1,028	200										
12	114972	775	200	106237	1,208	200							
16	103058	645	200	103080	1,124	200	106247	3,442	100				
20	122086	693	200	113163	1,171	200	112607	2,907	100				
25	119351	711	200	115060	1,118	100	122250	2,547	100	400528	6,804	50	
30	119383	852	200	122114	1,199	100	122251	2,419	100	400529	6,618	50	
35	122113	853	200	113257	1,295	100	125530	2,462	100	400530	5,564	50	
40	113143	975	200	100845	1,545	100	114996	2,485	100	400531	5,695	50	
45	121076	1,139	200	121088	1,708	100	115075	2,722	50	400532	5,799	50	
50	121068	1,199	200	125660	1,869	100	112360	2,585	50	120863	5,929	50	
55	103063	1,324	100	103087	2,018	100	122255	3,099	50	400533	6,003	50	
60	121070	1,425	100	122217	2,183	100	122260	3,191	50	112000	6,360	50	
65	103064	1,550	100	103088	2,358	100	122261	3,350	50	400534	6,456	50	
70	103066	1,702	100	125786	2,542	50	103098	3,527	50	400535	6,962	50	
75	103069	1,757	100	103090	2,708	50	103099	3,792	50	400536	7,371	50	
80	103070	2,535	100	103091	3,745	50	103100	4,427	50	400537	7,716	20	
90	103073	2,941	100	103094	4,282	50	103103	5,005	50	400538	7,892	20	
100	103075	3,489	100	103095	4,879	50	122142	5,530	50	400539	9,795	25	
110	103076	4,361	100	103096	5,779	50	125791	6,810	25	400540	10,941	25	
120	103077	5,093	50	103097	5,845	50	103104	7,830	25	400508	11,501	25	
130	106230	6,179	50	106240	7,958	50	103107	9,264	25	180223	12,994	25	
140	106231	6,637	50	106241	8,880	50	103108	10,331	25	180103	14,260	25	
150	106232	7,168	50	106242	9,876	50	103110	11,420	25	180225	15,240	25	
160	106233	7,859	100	106243	12,963	50	107456	18,829	25	180226	15,812	10	
170	700125	8,485	100	210001	14,293	50	181063	21,278	20	210002	17,269	10	
180	106234	8,944	100	106244	14,582	25	107458	20,701	20	180227	18,286	10	
200	106235	9,884	100	106245	15,587	25	107459	22,410	20	551663	20,639	10	
220				400517	20,025	25	400570	24,796	20	791320	22,703	10	
230							183555	31,054	20	791321	23,620	10	
240							400571	37,226	20	791322	24,652	10	
260							400572	42,540	20	791323	26,486	10	
280							400573	44,568	20	791324	28,551	10	

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 Diameter can be manufactured against request.
- 6.** For sizes beyond those listed, prices available on request.
- 7. 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.
- 8.** 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	6,511	50									
25	106248	6,335	50				210006	15,500	25			
30	103112	6,335	50	183894	17,777	20	107465	15,079	10			
35	103113	5,199	50	400541	17,999	20	107466	15,278	10			
40	125751	5,181	50	400542	15,762	20	103130	13,375	10	180408	20,227	10
45	103115	5,552	50	400606	15,876	25	103131	13,844	10	180409	21,401	10
50	112474	5,535	25	100844	16,000	10	103132	12,896	10	180181	19,111	10
55	103117	5,892	25	400543	16,099	10	103136	13,661	10	180182	20,915	10
60	112594	5,784	25	400544	16,228	10	103137	13,071	10	180183	22,098	10
65	103118	6,477	20	400545	16,360	25	103138	13,888	10	180184	23,943	10
70	103119	6,990	20	400546	17,471	10	103141	14,832	10	180185	25,070	10
75	103120	7,598	20	400547	18,612	10	103142	15,799	10	210007	26,576	10
80	125658	7,737	20	400549	18,975	10	103143	15,301	10	180186	27,932	10
90	103122	8,624	10	400550	19,359	10	103144	16,427	10	180187	28,508	10
100	103123	9,826	10	400551	20,308	10	103145	17,706	10	180188	30,896	10
110	103124	10,968	20	400548	22,471	25	103146	19,599	10	180189	32,695	10
120	103126	11,538	20	400552	24,611	15	103148	21,491	10	180190	35,334	5
130	103127	13,151	20	180311	27,404	10	103150	23,358	10	180191	47,767	5
140	103128	14,086	20	180229	30,424	10	103151	25,235	10	180192	54,292	5
150	103129	15,010	20	180407	31,797	10	103152	27,634	10	180193	72,384	5
160	103364	29,887	10	180230	33,918	10	107462	35,418	10	180194	85,316	5
170	180418	33,286	10	210005	40,167	10	180495	40,448	10	791330	88,576	5
180	107460	34,215	10	100231	47,712	10	107463	40,448	10	180196	93,840	5
200	107448	36,782	10	551668	50,795	10	107464	42,190	10	180198	100,438	5
220	400574	42,456	10	791325	55,610	10	400553	43,946	10	210008	107,358	5
230	182815	48,134	10	791326	58,477	10	181001	56,410	5	791331	111,981	5
240	400575	49,882	10	791327	60,770	10	400554	68,874	5	210009	119,121	5
260	400576	62,975	10	791328	65,356	10	400555	84,487	5	210010	127,881	5
280	400577	76,059	10	551667	69,943	10	400556	100,087	5	210011	132,927	5
300	400578	81,492	10	791329	74,529	10	400557	107,235	5	210012	142,423	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 diameter 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

Diameter	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	17,813	10							
50	103155	17,064	10					551648	38,735	5
55	103157	19,203	10							
60	103158	19,739	10	180233	35,086	5	180207	34,937	5	
65	103159	20,986	10	581201	37,265	5	210014	34,696	5	
70	103160	22,389	10	180326	38,057	5	116464	38,407	5	
75	103161	23,722	10	210013	39,990	5	182283	40,037	5	
80	103162	24,950	10	406161	42,666	5	140610	41,547	5	
90	103163	26,172	10	406162	45,671	5	140611	43,646	5	
100	103165	27,601	10	406163	48,716	5	140612	48,771	5	
110	103166	29,191	10	406164	51,764	5	140613	51,815	5	
120	103167	32,441	10	400607	54,807	5	140614	54,861	5	
130	103168	33,922	5	406165	58,611	5	140615	58,670	5	
140	103170	36,275	5	406166	60,896	5	140616	62,661	5	
150	103171	38,646	5	400608	64,707	5	140617	64,778	5	
160	104143	64,307	5	400609	102,004	5	140618	97,479	4	
180	104146	67,132	5	406168	112,665	5	140620	107,657	4	
200	104147	71,863	5	400579	122,567	5	140621	117,113	5	
220	400560	76,910	5	180003	152,784	4	400622	145,429	3	
240	400561	81,963	5	406171	169,297	4	400623	159,375	3	
260	400562	84,526	5	406172	184,405	3	140624	167,311	2	
280	400563	88,804	5	406173	196,815	3	140625	178,276	2	
300	400564	95,149	5	406174	207,644	3	400626	189,245	2	

Diameter	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	61,815	5							
80	180254	62,423	5	140629	74,982	5				
90	400649	69,643	5	140630	81,864	5	182336	115,648	5	
100	400628	72,773	5	140631	81,887	5	400645	126,692	12	
110	180255	74,610	5	400632	86,334	4	700380	130,135	12	
120	180256	81,443	5	140633	90,064	4	183113	141,519	10	
130	405492	87,642	5	400634	93,047	4	182331	144,562	10	
140	180257	90,594	4	140635	102,727	3	700383	156,420	9	
150	180258	95,164	4	140636	106,430	3	180960	159,702	9	
160	180259	125,994	4	140637	143,227	3	181289	223,352	9	
180	180261	140,068	3	140639	160,032	3	182059	237,049	8	
200	180263	152,248	3	140640	173,431	2	181290	256,813	7	
220	210016	188,678	3	180294	214,432	2	400647	322,181	7	
240	210017	203,257	3	140641	220,330	2	182510	335,831	6	
260	210018	212,629	2	140642	235,967	9	700390	358,204	6	
280	210019	224,334	2	180411	251,652	8	181291	380,599	6	
300	210020	241,851	2	140643	274,808	8	180863	402,987	6	

Grey highlighted items are full threaded



Socket Head Cap Screw

Inch (BSW)

Diameter	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	456	200	400068	545	200							
1/2	400057	456	200	400069	529	200	400085	752	200	400101	1,139	200	
5/8	400058	402	200	400070	519	200	400086	641	200	400102	1,107	200	
3/4	400059	456	200	400071	545	200	400087	688	200	400103	949	200	
7/8	551219	484	200	400072	563	200	400088	698	200	400104	1,083	200	
1	400061	510	200	400073	610	200	400089	747	200	400105	1,053	200	
1 1/4	400062	564	200	400074	671	200	400090	856	200	400106	1,154	100	
1 1/2	400063	644	200	400075	770	200	400091	957	200	400107	1,285	100	
1 3/4	400064	733	200	400076	943	200	400092	1,131	200	400108	1,535	50	
2	400065	733	200	400077	918	200	400093	1,131	200	400109	1,595	100	
2 1/4	210021	867	200	400078	1,859	200	400094	1,359	200	400110	1,842	100	
2 1/2	400066	965	200	400079	1,912	200	400095	1,359	100	400111	1,978	100	
2 3/4				400080	2,237	200	404433	1,658	100	400112	2,213	100	
3				400081	2,237	200	400096	1,658	100	400113	2,213	100	
3 1/4				400082	2,682	200	701026	2,768	100	400114	3,241	50	
3 1/2				400083	2,607	200	400098	2,768	100	400115	3,320	50	
4				400084	2,954	100	400099	3,284	100	400116	3,897	50	
4 1/2							400100	5,296	100	400117	5,905	50	
5							701030	5,968	100	400118	7,008	50	
5 1/2										400181	8,422	50	
6										400119	8,916	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)

Diameter	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	2,638	100	400130	2,988	100				
7/8	791967	2,638	100	402942	2,988	100		210033	5,641	50
1	400121	2,552	100	400131	2,539	100		400150	5,487	50
1 1/4	400122	2,552	100	400132	2,661	100		400151	4,769	50
1 1/2	400123	2,602	100	400133	2,708	50		400152	4,936	50
1 3/4	400124	2,781	100	400134	2,893	50		400153	5,251	50
2	400125	2,781	100	400135	3,024	50		400154	5,499	20
2 1/4	210025	3,197	50	400136	3,486	50		400155	5,976	20
2 1/2	701059	3,350	50	400137	3,636	50		400156	6,143	20
2 3/4	210026	3,607	50	400138	3,949	50		400157	6,560	20
3	400127	3,675	20	400139	4,293	50		400158	6,743	20
3 1/4	210027	4,889	50	400140	5,133	50		701096	7,536	10
3 1/2	400128	4,755	50	400141	5,133	20		400159	7,863	10
4	400129	5,507	20	400142	6,104	25		400160	9,342	10
4 1/2	210028	8,129	50	400143	7,293	25		400161	9,642	15
5	210029	7,909	25	400144	8,979	25		400162	10,634	15
5 1/2	210030	9,266	50	400145	9,886	20		400163	13,575	20
6	210031	9,276	25	400146	10,233	20		400164	14,792	20
6 1/2				400147	20,301	20		400165	30,567	10
7				400148	20,708	15		400166	31,420	10
7 1/2				210032	21,520	15		210035	32,625	10
8				400149	23,051	25		400167	33,711	10
8 1/2								210036	45,344	10
9								210037	44,205	10
10								210038	57,841	10

Grey highlighted items are full threaded

- 1. Specifications :** Generally conforming to BS 2470.
- 2. Threads :** BS Whitworth Fine, Medium as per BS 84.
- 3. Material :** Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties :** As per BS 2470
- 5. Note :** Upto 4 Inch Dia can be manufactured against request.
- 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.** For Socket head cap screw UNC, above prices will apply.
- 8.** Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Head Cap Screw

Inch (BSW)

Diameter	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	14,076	50							
1 1/4	400168	13,694	10							
1 1/2	400169	12,078	10	400187	19,451	10	210054	18,233	15	
1 3/4	400170	12,353	10	210043	20,785	10	210055	18,949	15	
2	400171	12,699	10	400188	20,220	10	400194	19,313	10	
2 1/4	400172	12,973	10	404637	22,389	10	404571	21,400	10	
2 1/2	400173	12,973	10	400189	21,782	10	400195	21,400	10	
2 3/4	400174	14,362	10	210044	25,178	10	210056	24,103	10	
3	400175	14,764	10	400190	24,543	10	400196	23,448	10	
3 1/4	400176	15,338	10	701133	27,824	10	210057	25,856	10	
3 1/2	400177	14,922	10	400191	27,068	10	400197	25,856	10	
4	400178	16,083	10	400192	28,558	10	400198	28,560	5	
4 1/2	400179	19,021	10	701136	33,580	10	400199	31,992	5	
5	400180	20,666	10	701137	37,083	10	400200	35,439	5	
5 1/2	701121	23,506	10	210047	38,611	10	183785	36,888	5	
6	400182	25,801	10	400193	42,272	10	400201	41,167	5	
6 1/2	400183	32,981	10	210048	73,389	5	210059	67,728	5	
7	400184	33,745	10	701139	73,389	5	400202	70,164	5	
7 1/2	210040	35,476	10	210050	76,042	5	210060	72,673	5	
8	400185	35,211	10	210051	75,580	5	400203	75,109	5	
8 1/2	210041	41,998	10	210052	81,989	5	210061	82,133	5	
9	400186	41,998	10	210053	81,989	5	210062	84,499	5	
10	701127	46,664	5	551078	93,305	5	210063	93,888	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.



Countersunk Socket Head Cap Screws (CSK)

Metric

Diameter	M3		M4		M5		M6		M8	
	Wrench Key Size 2mm		Wrench Key Size 2.5mm		Wrench Key Size 3mm		Wrench Key Size 4mm		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	876								
8	103303	1,033	103309	561	103318	831	103325	642		
10	103304	1,110	103311	561	103319	546	103328	647		
12	103305	1,191	103312	566	103320	595	103329	630	103337	843
14					401676	618	401678	688		
16	103306	1,349	103313	639	103321	639	103330	708	103338	820
18			401675	651	401677	647	401679	733	401681	831
20	103308	1,508	103315	659	103322	654	103331	756	103340	880
25	106284	1,668	103316	809	103323	769	103332	862	103341	1,009
30			103317	977	103324	977	103333	992	103342	1,154
35			220001	2,028	106289	1,301	103334	1,127	103343	1,313
40			220002	2,169	220005	2,028	103335	1,326	103344	1,538
45			220003	2,440	220006	2,283	220008	2,361	106297	1,727
50			220004	2,711	220007	2,534	220009	2,954	220011	2,707
55							220010	3,248	220012	3,232
60									220013	3,525
Qty. Per Box					200					

Diameter	M10		M12		M16		M20		M24	
	Wrench Key Size 6mm		Wrench Key Size 8mm		Wrench Key Size 10mm		Wrench Key Size 12mm		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
12	103345	1,442								
16	103347	1,371								
20	103348	1,178	103353	2,659						
25	103349	1,368	103354	2,498						
30	103350	1,568	103355	2,861	103359	5,377				
35	103351	1,803	103356	3,077	103360	5,795	106328	13,436		
40	103352	2,066	103357	3,317	103361	6,039	106332	11,657		
45	106302	2,325	106311	3,755	106318	6,815	106334	12,506		
50	106303	2,624	103358	4,096	103362	6,847	106335	13,332	220032	22,628
55	106304	3,232	106312	4,673	106320	7,847	106336	14,150	220033	24,525
60	220014	3,525	106313	5,036	103363	8,280	106337	14,964	401689	26,420
65	220015	3,819	220020	5,728	183908	8,713	183912	15,812	220034	28,316
70	220016	4,113	220021	6,168	106321	9,148	106338	16,660	401690	30,213
75	220017	5,288	220022	6,610	220025	11,272	183913	18,110	220035	32,109
80	220018	5,640	220023	7,650	220026	11,781	106339	20,748	401691	34,004
90	220019	6,345			106325	12,877	106341	21,566	401692	37,798
100					629621	15,223	106342	26,770	401693	42,980
110							220029	29,598	701356	48,162
120							220030	32,424	183179	53,346
130							220031	34,922	701358	58,529
Qty. Per Box	100		50		25		10		5	

Quantity per box 25
Quantity per box 200

- Note** : All sizes are fully threaded. **2. Specifications** : Generally conforming to IS 6761, ISO 10642
- 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 - I
- 6.** Bold black lines are used to indicate quantity per box.
- 7.** Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Socket Low Head Cap Screws (LHCS)

Metric

Diameter	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	1,103	106262	1,103	106263	1,103		
10	106251	851	103500	756	103508	734		
12	106255	767	103501	767	103509	737	103519	957
15			400790	1,040	400792	1,008	400791	1,172
16	106256	819	103502	749	103511	710	103520	869
20	106257	903	103597	794	103512	794	103521	901
25	106260	903	103503	856	103515	879	103525	963
30	406185	1,512	103505	972	103516	965	103526	1,083
35					103517	1,061	103528	1,174
40					103518	1,575	103529	1,264
45					106264	1,748		
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	1,324	200									
20	103533	1,170	200	103549	3,255	100						
25	103534	1,293	200	103550	2,888	100						
30	103535	1,449	200	103551	2,783	100	103562	5,718	25			
35	103536	1,533	200	103552	2,814	100	103563	6,146	25			
40	103538	1,654	100	103553	2,835	50	103564	6,039	25	103578	14,385	25
45	106271	2,814	100				106277	5,718	25			
50	103541	3,058	100	103554	3,057	50	103565	6,508	25	103580	16,905	25
55	106272	3,310	100									
60				103555	4,417	50	103566	9,542	25	103581	19,425	25
90							103574	13,608	25			
100							103575	14,650	25	103599	30,135	25

Grey highlighted items are full threaded

- Specifications** : Generally conforming to Unbrako Specification **DIN 7984 + 6912**, 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

Diameter	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	4,352	50										
12	105365	4,722	50	105375	4,345	50							
15	401484	5,454	50	401486	5,459	50	401487	6,650	50	401485	14,438	25	
16	105366	5,454	50	105377	5,601	50	105388	6,840	50	105404	8,889	25	
20	105368	6,186	50	105379	6,286	50	105390	7,598	50	105406	9,780	25	
25	105370	7,102	50	105380	7,145	50	105392	8,552	50	105407	10,900	25	
30	105372	8,020	50	105381	8,007	50	105393	9,500	50	105410	12,019	25	
40	105373	9,458	50	105383	9,725	50	105394	11,397	50	105411	14,256	25	
50				105386	10,679	50	105395	11,970	50	105412	15,942	25	
60							105396	12,651	50	105416	18,105	25	
70							105402	14,251	50	105417	19,236	25	
80							106422	15,831	50	105420	20,111	25	
90										105427	20,352	25	
100										105433	23,989	25	

Diameter	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	18,493	25							
40	105435	21,744	25	105441	50,730	10				
50	105436	24,994	25	105442	57,379	10	401488	175,459	5	
60	105437	28,243	25	105444	64,026	10	401489	191,976	5	
70	105438	31,494	25	105448	70,676	10	401490	208,492	5	
80	105440	33,584	25	105449	77,324	10	401491	225,015	5	
90	106343	34,827	25	105450	83,974	10	401492	241,530	5	
100	106344	41,243	25	106347	90,620	10	401493	258,047	5	
120	106346	63,655	25	106348	103,917	10	401494	291,085	5	

- 1. Specifications :** Generally conforming to BS 4168, DIN 9841, ISO 7379.
- 2. Thread Class :** 4g6g (Precision Ground to h8 tolerance on the Shoulder (Size Indicator Ground Diameter))
- 3. Material :** Unbrako High Grade Alloy Steel.
- 4. Mechanical Properties :** Properties Class conforming to 12.9 as per ISO 898 Part - I.
- 5. 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.
- 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.**



Socket Set Screws (Grub Screws)



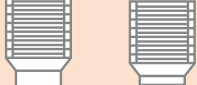

Knurled Cup Point

Metric

Diameter	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	355								
4	103172	359	103182	294						
5	103175	364	103185	294	103194	205				
6	103176	351	103186	298	103195	208	103207	217	180002	428
8	103177	356	103187	319	103196	208	103208	236	103224	261
10	103178	375	103188	324	103197	226	103209	266	103227	273
12	103179	399	103189	359	103198	273	103211	305	103228	331
16	103180	525	103191	490	103199	317	103212	390	103229	402
20	551093	551	103193	595	103202	389	103214	421	103230	521
25			701961	645	103203	426	103217	544	103231	645
30			406498	1,175	103204	594	103218	718	103235	754
35			551679	1,563	181179	924	103219	1,101	103236	1,009
40			551680	2,011	551094	1,155	103220	1,245	103237	1,194
45							103221	1,325	701998	1,305
50							103222	1,558	103240	1,494
55									551095	2,582
60									551096	2,818
65									551097	3,261
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

Diameter	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	549						
10	103241	427	551687	840				
12	103244	497	103256	705				
16	103245	663	103258	843	106352	1,920		
20	103246	817	103259	1,069	103274	1,932	104149	6,321
25	103247	989	103260	1,466	103276	2,619	103286	7,053
30	103249	1,424	103261	1,695	103277	3,101	103287	8,154
35	103251	1,644	103262	2,300	103278	3,878	103288	9,296
40	103252	1,825	103263	2,552	103279	4,496	103289	10,395
45	103253	2,090	103269	2,834	103281	4,979	103290	11,541
50	103254	2,422	103270	3,093	103282	5,976	103292	12,625
55	551098	4,007	103271	5,341	103283	7,585	103293	14,928
60	183091	4,468	103272	5,999	103284	8,115	103294	15,862
65	551099	4,663	551100	7,482	551102	9,613	551105	17,876
70			551101	8,060	182790	12,236	551106	18,871
75					551103	13,718	551107	20,516
80					551104	14,634	793979	22,714
Qty. Per Box	100				50			

1. **Specifications** : Generally conforming to the following standards

//// Quantity per box 200

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.

7. **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.

8. 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

Diameter	3/16"		1/4"		5/16"		3/8"	
	Wrench Key Size 3/32"		Wrench Key Size 1/8"		Wrench Key Size 5/32"		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	214						
1/4	400951	208	400961	247				
5/16	400952	219	400963	261	400986	261		
3/8	400953	226	400965	273	400977	273	400988	320
1/2	400954	260	400967	278	400978	285	400989	432
5/8	551209	293	400969	362	400979	352	400990	510
3/4	400956	359	400970	550	400980	461	400991	629
1	400957	509	400972	536	400982	645	400993	769
1 1/4			400973	624	400984	761	400994	1,106
1 1/2			400974	1,055	400983	1,546	400995	1,960
1 3/4			551108	1,336	551109	1,652	400996	2,367
2			180730	1,412	400985	1,955	400997	2,795
Qty. Per Box	200				100			

Diameter	1/2"		5/8"		3/4"	
	Wrench Key Size 1/4"		Wrench Key Size 5/16"		Wrench Key Size 3/8"	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
1/2	401003	729				
5/8	401005	818	401015	1,931		
3/4	401006	1,032	401016	1,990	401024	4,410
1	401008	1,275	401017	2,297	401025	5,310
1 1/4	401009	1,780	401018	2,984	551110	6,542
1 1/2	401010	4,131	401019	5,598	401026	9,097
1 3/4	401012	5,380	401020	7,548	401027	10,710
2	401013	5,885	401021	6,864	401028	12,600
2 1/2	401014	7,411	401022	10,001	401029	15,425
3	702408	9,086	401023	12,140	401030	18,582
Qty. Per Box	100		50			

- 1. Specifications :** 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.
- 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.
- 8. 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

Diameter	M3 Wrench Key Size 2mm			M4 Wrench Key Size 2.5mm			M5 Wrench Key Size 3mm			M6 Wrench Key Size 4mm		
	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	764	200									
6	106353	764	200	180200	552	200	180398	1,054	200			
8	106354	620	200	106360	552	200	180175	1,044	200	180249	1,990	200
10	106357	711	200	106361	552	200	106365	552	200	106372	725	200
12	106358	791	200	106363	606	200	106366	606	200	106373	738	200
15				401218	738	200	401219	711	200	401222	843	200
16	106359	1,001	200	106364	738	200	106367	711	200	106374	843	200
18							406269	1,555	200	401223	843	200
20							106368	843	200	106375	909	200
22							401220	1,818	200			
25							106369	1,001	200	106376	948	200
30							106370	1,133	200	106378	989	200

Diameter	M8 Wrench Key Size 5mm			M10 Wrench Key Size 6mm			M12 Wrench Key Size 8mm		
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	106379	1,213	200						
12	106380	1,028	200						
15	401226	1,054	200						
16	106382	1,054	200	106392	2,107	200	106403	3,557	100
20	106384	1,079	200	106393	1,435	200	106404	3,820	100
25	106385	1,265	200	106396	1,647	200	106405	3,978	100
30	106386	1,449	200	106399	1,845	200	106406	4,452	100
35	106389	1,765	200	106401	2,069	200	106407	4,927	100
40	106390	1,976	200	106402	2,292	100	106408	5,400	50
50							106413	6,349	50

- 1. Specifications :** 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.
- 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.**



Flange Button Head Socket Screws

Metric

Diameter	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	1,301	200							
8				404982	1,146	200				
10				404983	1,331	200	404988	1,185	200	
12				404984	1,475	200	404989	1,290	200	
16				404986	1,704	200	404991	1,555	200	
20							404992	1,634	200	
25							404994	1,739	200	

Diameter	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	1,700	200	405005	3,610	200				
12	404997	1,673	200	405007	1,634	200				
16	404999	1,962	200	405009	1,896	200	405016	3,293	200	
20	405001	2,243	200	405011	2,134	200	405017	3,689	200	
25	405003	2,596	200	405012	2,464	200	405018	4,190	200	
30	405004	2,951	200	405013	2,793	200	405019	4,703	200	
40				405015	3,425	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	1,118	100	1.5	125648	1,118	100
5/64	110164	1,233	100	2	122263	1,118	100
3/32	110180	1,233	100	2.5	122270	1,118	100
1/8	110213	1,233	100	3	121093	1,233	100
5/32	110246	1,461	100	4	119953	1,935	100
3/16	115915	1,891	100	5	122245	2,360	100
7/32	115948	2,571	50	6	121066	3,360	50
1/4	115981	3,725	50	8	115557	6,328	50
5/16	115997	6,189	25	10	120859	10,561	25
3/8	116013	9,155	25	12	120806	19,868	25
1/2	116046	21,122	10	14	111100	29,224	25
9/16	116063	27,025	10	17	138487	46,219	10
5/8	116080	39,461	10	19	111133	63,780	10
3/4	116096	63,811	10	22	402603	100,526	5
				24	402604	135,159	5
				27	402605	227,541	2
				32	402606	400,157	2

Hex Wrench Sets

STANDARD (METRIC)				
Sets	Wrenches Box Set	Part No.	₹ Price/100 Pcs	Box Qty
Standard (Metric)	 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, Set of 9	402616	34,700	50
STANDARD (INCH)				
Sets	Wrenches Box Set	Part No.	₹ Price/100 Pcs	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	36,400	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).

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

Diameter	M2			M3		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
8	407831	958	40			
10	407832	970	40	115001	1,104	40
12	407833	983	40	115002	1,116	40
14						
16	407835	1,007	40	115003	1,164	40
18	407836	1,007	40	402118	1,189	40
20	407837	1,019	40	115004	1,200	40
24						
28				402120	1,335	40
30				115007	1,394	40
32				402121	1,455	40
36				406345	1,577	40
40				402124	1,698	40

Diameter	M4			M5		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	115010	1,225	40	402133	1,285	40
12	115011	1,261	40	115021	1,322	40
14				402134	1,359	40
16	115012	1,335	40	115022	1,394	40
18						
20	115015	1,394	40	115024	1,479	40
24	407127	1,468	40	407128	1,552	40
28	402128	1,577	40	402137	1,685	40
30	115017	1,650	40	115026	1,770	40
32				402138	1,844	40
36				406347	2,001	40
40				115028	2,159	40
50	402132	2,413	40	115031	2,596	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

Diameter	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	1,613	40						
16	115032	1,722	40						
18	402143	1,770	40						
20	115034	1,831	40	115049	2,571	40	115063	3,542	40
24	115037	1,940	40	406349	2,765	40	406351	3,844	40
28	402145	2,098	40	402150	3,007	40			
30	115038	2,196	40	115053	3,153	40	115066	4,414	40
32	402146	2,292	40	402151	3,287	40			
36	406348	2,486	40	406350	3,566	40	406352	5,021	40
40	115043	2,681	40	115055	3,833	40	115070	5,433	40
45				115056	4,233	40	115071	6,015	40
50	115046	3,201	40	115057	4,584	40	402161	6,536	40
55				402153	4,948	40			
60	115047	3,687	40	115058	5,299	40	402163	7,592	40
70							402164	8,647	40
90							402167	10,769	40
100							402169	11,848	40

Diameter	M12			M16		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
24	406353	4,899	40			
30	402174	5,664	40			
32				406218	11,061	20
36	406354	6,476	40			
40	402178	7,021	40	406220	13,268	20
50	402180	8,465	40			
60	402182	9,860	40			
70	402183	11,254	40	406225	21,878	20
80	402184	12,649	40	406226	24,740	20
90				406227	27,627	20
100	402186	15,486	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.

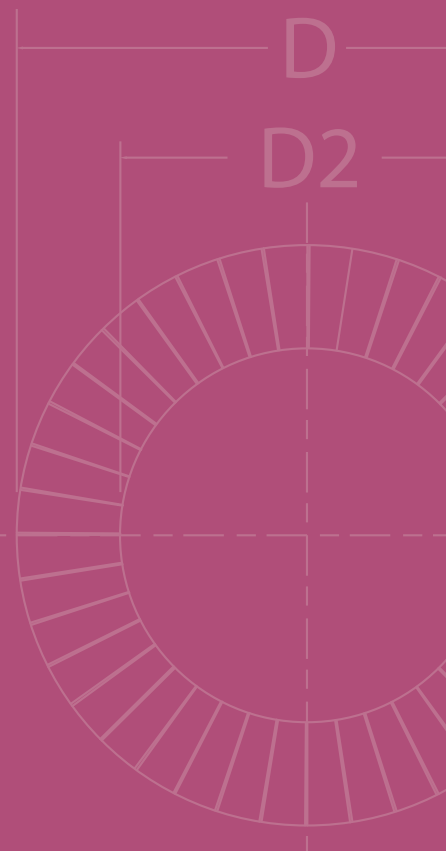
CAUTION: Unbrako advise that correct tools should be used for the application.

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

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34	Durlok® Washers



Durlok[®] Anti-Vibration self-locking fasteners

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.

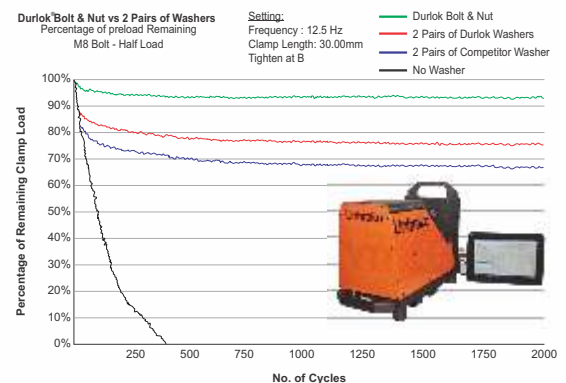
Advantages

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® Screws

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

Metric

Diameter	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	3,030	200	190570	3,109	200						
16	190560	2,318	200	190590	2,741	200	190620	3,624	200			
20	190160	2,556	200	190210	2,964	200	190270	2,832	200	183640	5,216	100
25	190170	2,846	200	190220	3,268	200	190280	3,083	200	190320	5,348	100
30	190180	3,135	200	190230	3,557	200	190290	3,359	200	190330	5,400	100
35				190600	3,872	200	190630	4,190	200	190660	5,534	100
40				190240	4,162	200	190300	4,506	100	190340	5,955	50
45				408127	4,874	200	190640	4,821	100	190670	6,349	50
50				190610	5,216	100	190310	5,138	100	190350	6,744	50
55										190680	7,140	50
60				407393	5,857	200				190360	7,930	50
70										190700	8,774	50
80										190710	9,591	50

Diameter	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	10,354	25						
30	190370	10,802	25	190410	23,132	25			
35	190740	11,461	25	190420	23,132	25			
40	190380	11,592	25	190430	23,132	25	190875	38,202	25
45	190750	11,935	25	190820	18,152	25	405793	33,592	25
50	190760	12,646	25	190440	18,653	25			
55				405105	19,628	25			
60	190770	13,594	25	190450	20,998	25	190885	37,675	25
70				190460	22,973	25	190890	39,519	25
80				190855	23,976	25	190900	42,945	25
90				190860	25,898	25	190910	46,369	25
100				190870	27,796	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 - 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.



Durlok® Nuts

Length	Part No.	₹ Price/100 Pcs	Box Qty
M6	404916	860	200
M8	404917	1,293	200
M10	405202	1,955	200
M12	404918	3,595	100
M14	405240	5,505	50
M16	404915	6,629	50
M20	403618	14,044	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
M6	551087	2,468	200	M18	550262	9,675	100
M6L	551088	3,218	200	M18L	550263	17,073	100
M8	551089	3,218	200	M20	550264	9,675	100
M8L	550253	4,358	200	M20L	550265	17,073	100
M10	550254	4,358	200	M22	550266	13,373	100
M10L	550255	4,553	200	M22L	550267	25,324	100
M12	550256	4,553	200	M24	550268	17,073	100
M12L	550257	6,687	100	M24L	550269	30,730	50
M14	550258	6,687	100	M27	550270	24,612	50
M14L	550259	9,675	100	M27L	550271	30,730	50
M16	550260	6,260	100	M30	550272	26,462	50
M16L	550261	9,675	100	M30L	550273	38,982	25

- 1. Note:** L = Larger Outer Dia
- Inch series available on request.
- Stainless Steel prices available on request.
- 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.

Hex Bolts

Page Contents

37	Hex Head Bolts/Screws - Grade 10.9
42	Hex Head Bolts/Screws - Grade 8
46	Hex Nut - Grade 8 / 10
47	Nylock Nut Blue Ring DIN 982 - Grade 8 /10
48	Nylock Nut Blue Ring DIN 985 - Grade 8 /10
48	All Metal Prevailing Torque Nut DIN 980M & DIN 980V
49	Spring Washer - Square Section
49	Spring Washer - Flat Section
49	Hardened Washer
50	Hexagon Weld Nut



Hex Head Bolts / Screws

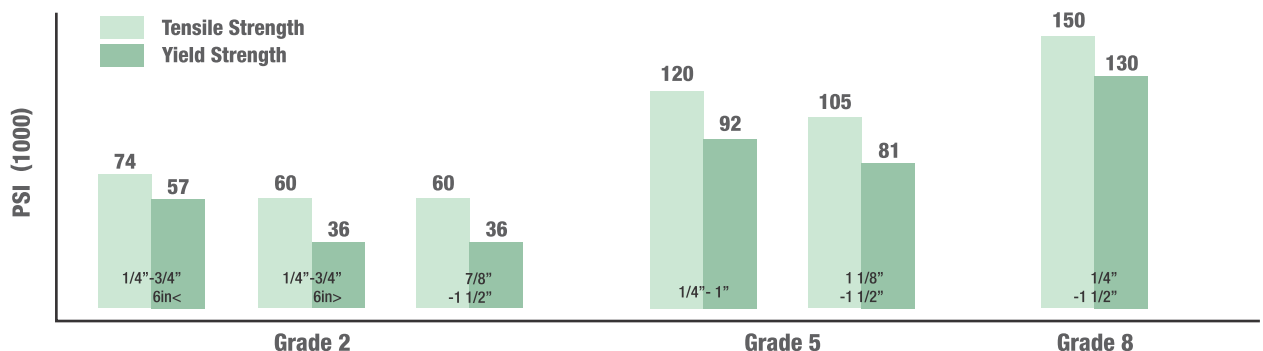
In-house Destructive And Non destructive Testing:

- 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





10.9 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	Box Qty
8	550616	320	500					550628	503	500			
10	170001	287	500	170013	304	500	170029	393	500	550642	710	500	
12	170002	297	500	170014	308	500	170030	416	500	170049	600	500	
16	170003	488	500	170015	487	500	170031	430	500	170050	608	200	
18	170004	488	500	170016	499	500	170032	436	500	170051	548	200	
20	170005	422	500	170017	402	500	170033	430	500	170052	548	200	
22	170006	428	500	170018	427	500	170034	442	500	170053	620	200	
25	170007	428	500	170019	422	500	170035	444	500	170054	601	200	
30	170008	427	500	170020	455	500	170036	465	500	170055	673	200	
35	170009	439	500	170021	460	500	170037	498	200	170056	789	200	
40	170010	466	500	170022	488	500	170038	523	200	170057	836	200	
45	170011	525	500	170023	533	500	170039	555	200	170058	904	200	
50	170012	583	500	170024	641	500	170040	595	200	170059	984	200	
55	240001	641	500	170025	675	500	170041	653	200	170060	1,078	100	
60	240002	700	500	170026	736	200	170042	714	200	170061	1,216	100	
65				170027	836	200	170043	775	100	170062	1,255	100	
70				170028	902	200	170044	835	100	170063	1,355	100	
75				240003	967	200	170045	842	100	170064	1,397	100	
80							170046	887	100	170065	1,448	100	
90							170047	1,000	100	170066	1,872	100	
100							170048	1,111	100	170067	2,255	50	
110							551178	1,709	100	240010	3,178	50	
120							550866	1,858	100	240011	3,505	50	
130							550867	2,002	100	240012	3,837	50	
140							550868	2,149	100	550872	4,246	50	
150							550869	2,295	100	550873	4,518	50	
160										787951	4,777	50	
170										787952	5,024	50	
180										787953	5,308	50	
190										787954	5,555	50	
200										787955	5,815	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 Diameter 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 DIN 931/933 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.



10.9 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	1,026	200	550673	1,911	100							
18	170069	1,020	200										
20	170070	962	200	170093	1,580	100					170142	3,573	50
22	170071	1,059	200								170143	3,573	50
25	170072	1,040	200	170094	1,716	100	170121	2,728	50		170144	3,599	25
30	170073	1,123	100	170095	1,703	100	170122	2,942	50		170145	3,943	25
35	170074	1,181	100	170096	1,798	100	170123	3,059	25		170146	3,943	25
40	170075	1,433	100	170097	2,047	100	170124	3,272	25		170147	3,903	25
45	170076	1,663	100	170098	2,271	50	170125	3,533	25		170148	4,138	25
50	170077	1,703	100	170099	2,428	50	170126	3,917	25		170149	4,446	25
55	170078	1,773	100	170100	2,604	50	170127	4,004	25		170150	4,942	25
60	170079	1,947	100	170101	2,716	50	170128	4,183	25		170151	5,213	25
65	170080	2,053	50	170102	2,839	50	170129	4,413	25		170152	5,346	25
70	170081	2,158	50	170103	3,210	50	170130	4,681	25		170153	5,704	25
75	170082	2,307	50	170104	3,325	50	170131	4,909	25		170154	6,117	25
80	170083	2,655	50	170105	3,528	50	170132	5,197	25		170155	7,020	25
90	170084	2,944	50	170106	3,800	25	170133	5,693	25		170156	7,501	25
100	170085	3,384	50	170107	4,439	25	170134	6,552	25		170157	7,785	15
110	170086	3,906	50	170108	4,848	25	170135	7,123	25		170158	8,636	15
120	170087	4,252	25	170109	5,138	25	170136	7,909	25		170159	9,865	15
130	170088	4,776	50	170110	5,431	25	170137	8,561	25		170160	11,601	15
140	170089	5,299	50	170111	6,445	25	170138	11,085	25		170161	11,760	15
150	170090	5,677	30	170112	8,610	25	170139	12,236	25		170162	13,384	15
160	170091	6,054	25	170113	9,027	20	170140	13,663	25		170163	14,536	15
180	170092	6,811	25	170114	9,813	20	170141	14,659	25		170164	16,348	15
200	550876	7,568	25	170115	12,968	25	550887	16,287	25		170165	17,697	10
220				170116	18,649	25	550888	22,230	20		170166	22,875	10
240				170117	19,109	20	550889	24,045	20		170167	24,617	10
260				170118	19,520	20	550890	25,860	20		170168	25,116	10
280				170119	21,317	18	550891	27,845	18		170169	27,727	10
300				170120	22,839	18	550892	29,716	18		170170	35,643	10

Grey highlighted items are full threaded

- 1. Specifications :** Generally conforming to IS 1364, ISO 4014/4017.
- 2. Threads :** ISO Metric 6g as per IS 4218.
- 3. Material and Mechanical Properties :** Property Class 10.9 as per IS 1367.
- 4. 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 Diameter can be manufactured against request.
- 7. 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 DIN 931/933 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.



10.9 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
30				550751	8,125	25				
35	550735	6,516	25	170190	7,843	25				
40	170171	7,007	25	170191	7,843	25	550775	10,628	10	
45	170172	7,303	25	170192	8,216	25	550776	11,286	10	
50	170173	7,529	25	170193	8,157	25	170215	11,630	10	
55	170174	8,043	25	170194	9,264	25	170216	12,525	10	
60	170175	8,296	25	170195	9,395	25	170217	12,935	10	
65	170176	8,575	25	170196	9,509	10	170218	13,852	10	
70	170177	9,367	25	170197	9,623	10	170219	14,333	10	
75	170178	9,914	10	170198	10,676	10	170220	14,826	10	
80	170179	9,933	10	170199	10,991	10	170221	15,428	10	
90	170180	10,552	10	170200	11,680	10	170222	16,433	10	
100	170181	11,692	10	170201	12,439	10	170223	17,528	10	
110	170182	12,326	10	170202	14,000	10	170224	19,081	10	
120	170183	13,601	10	170203	14,904	10	170225	20,395	10	
130	170184	14,222	10	170204	16,217	10	170226	21,490	10	
140	170185	14,843	10	170205	17,306	10	170227	22,566	10	
150	170186	15,895	10	170206	17,009	10	170228	23,626	10	
160	170187	17,117	10	170207	20,250	10	170229	26,951	5	
180	170188	18,990	10	170208	23,709	10	170230	29,269	5	
200	170189	20,517	10	170209	25,551	10	170231	31,623	5	
220	240020	22,568	10	170210	35,450	5	170232	48,573	5	
240	240021	24,623	10	170211	37,227	5	170233	52,616	5	
260	240022	26,675	10	170212	39,006	6	170234	54,639	5	
280	240023	28,727	8	170213	42,553	6	170235	60,730	5	
300	240024	30,779	8	170214	46,081	6	170236	65,069	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 Diameter 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 DIN 931/933 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.



10.9 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
40	550791	16,836	10						
45	550792	17,871	10						
50	170237	14,662	10	170259	29,392	5	170281	38,960	5
55	170238	14,030	10	170260	29,392	5	170282	38,960	5
60	170239	15,264	10	170261	29,392	5	170283	38,960	5
65	170240	15,795	10	170262	29,392	5	170284	38,960	5
70	170241	16,743	10	170263	29,392	5	170285	38,960	5
75	170242	17,346	10	170264	31,608	5	170286	38,960	5
80	170243	18,967	10	170265	33,075	5	170287	40,544	5
90	170244	20,253	10	170266	36,009	5	170288	44,010	5
100	170245	21,906	10	170267	38,960	5	170289	47,362	5
110	170246	22,896	5	170268	42,012	5	170290	52,097	5
120	170247	24,029	10	170269	43,077	5	170291	53,248	5
130	170248	25,342	5	170270	44,495	5	170292	55,646	5
140	170249	26,548	5	170271	47,312	5	170293	59,097	5
150	170250	27,845	5	170272	50,130	5	170294	62,416	3
160	170251	33,250	5	170273	55,364	5	170295	70,617	3
170	240025	34,700	5	550941	58,305	5	550947	74,182	3
180	170252	36,151	5	170274	61,249	5	170296	77,770	3
190	240026	37,576	5						
200	170253	39,001	5	170275	66,716	5	170297	84,838	5
220	170254	55,912	5	170276	91,940	4	170298	102,359	3
240	170255	57,915	5	170277	99,141	4	170299	109,562	3
260	170256	59,920	4	170278	105,643	3	170300	116,778	3
280	170257	65,898	4	170279	112,128	3	170301	123,981	2
300	170258	80,560	4	170280	117,389	3	170302	131,167	2

Grey highlighted items are full threaded

- 1. Specifications :** Generally conforming to IS 1364, ISO 4014/4017.
- 2. Threads :** ISO Metric 6g as per IS 4218.
- 3. Material and Mechanical Properties :** Property Class 10.9 as per IS 1367.
- 4. 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 Diameter can be manufactured against request.
- 7. 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 DIN 931/933 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.



10.g 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
70				550845	69,451	5							
75	170303	53,480	5	550846	66,373	5	631194	97,297	4				
80	170304	56,548	5	170320	67,650	5	550858	100,774	3				
90	170305	59,981	5	170321	72,802	3	170336	106,760	3				
100	170306	64,233	5	170322	75,735	3	170337	112,895	2	787845	157,001	2	
110	170307	69,067	4	170323	80,886	4	170338	119,065	2	787846	165,629	2	
120	170308	70,718	4	170324	82,454	3	170339	119,981	2	787847	166,602	2	
130	170309	74,519	4	170325	86,773	3	170340	125,048	10	787848	173,544	2	
140	170310	79,137	4	170326	91,723	3	170341	132,007	10	550980	193,864	2	
150	170311	83,671	4	170327	96,640	3	170342	138,951	9	787849	202,637	2	
160	170312	87,572	4	170328	106,193	3	170343	145,904	9	787850	211,472	2	
180	170313	95,891	3	170329	123,147	2	170344	159,157	8	550981	229,078	2	
200	170314	104,309	3	170330	133,484	2	170345	166,357	7	550982	237,402	2	
220	170315	126,151	3	170331	160,041	2	170346	213,386	7	550983	301,764	2	
240	170316	135,451	2	170332	171,568	9	170347	229,224	6	550984	321,872	2	
260	170317	145,604	2	170333	183,080	8	170348	245,111	6	787851	341,980	2	
280	170318	155,706	2	170334	194,616	8	170349	260,967	6	551123	362,088	2	
300	170319	165,792	2	170335	233,624	7	170350	276,812	6	551143	382,196	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 Diameter 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 DIN 931/933 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.



Gr. 8 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	471	500	170364	628	500	170381	1,010	200				
5/8	170352	584	500	170365	601	500	170382	1,010	200				
3/4	170353	531	500	170366	579	200	170383	881	200	170400	1,897	100	
7/8	170354	479	500	170367	633	200	170384	1,064	200	170401	1,883	100	
1	170355	523	200	170368	630	200	170385	869	200	170402	1,999	100	
1 1/4	170356	535	200	170369	693	200	170386	971	200	170403	2,230	100	
1 1/2	170357	593	200	170370	844	200	170387	1,097	100	170404	2,380	50	
1 3/4	170358	649	200	170371	946	200	170388	1,280	100	170405	2,559	25	
2	170359	712	200	170372	1,007	200	170389	1,406	100	170406	2,785	25	
2 1/4	170360	782	200	170373	1,108	100	170390	1,540	100	170407	3,075	25	
2 1/2	170361	871	200	170374	1,216	100	170391	1,690	100	170408	3,274	25	
2 3/4	170362	957	200	170375	1,314	100	170392	1,883	100	170409	3,545	25	
3	170363	1,046	200	170376	1,383	100	170393	1,995	100	170410	3,976	25	
3 1/4	240027	1,205	200	170377	1,476	100	170394	2,206	50	170411	4,264	25	
3 1/2	240028	1,219	200	170378	1,590	100	170395	2,267	50	170412	4,411	25	
3 3/4	240029	1,301	100	170379	1,963	100	170396	2,779	25	170413	4,641	25	
4	240030	1,395	100	170380	2,169	100	170397	2,987	25	170414	4,835	25	
4 1/4				551064	2,314	100	170398	3,322	25	170415	5,135	25	
4 1/2	787956	1,554	100	551065	2,440	100	170399	3,516	25	170416	5,594	25	
5	551063	1,718	100	551066	2,710	100	240034	3,906	50	170417	6,110	25	
5 1/2				787957	2,961	100	240035	4,297	50	170418	7,459	25	
6				787958	3,210	100	240036	4,687	50	170419	9,057	25	
6 1/2										240037	11,126	25	
7										170420	13,607	20	
7 1/2										170421	14,583	25	
8										170422	15,554	25	

Grey highlighted items are full threaded

1. **Specifications** : Generally conforming to ANSI B 18.2.1

2. **Threads** : Unified Coarse, 2A as per ANSI B1.1.

3. **Material & Mechanical Properties** : Grade 8 as per SAE J 429

4. **Note** : Non-shaded sizes if required in full thread will cost 10% extra.

: Upto 4 Inch Dia can be manufactured against request.

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. For Hex Bolt/Screws BSW, above prices will apply.

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



Gr. 8 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	3,494	25										
1 1/4	170424	3,900	25	551032	6,749	25							
1 1/2	170425	4,091	25	170445	7,179	25	551044	15,561	10	170487	15,686	10	
1 3/4	170426	4,364	25	170446	7,452	25	787988	17,093	10	170488	15,686	10	
2	170427	4,585	25	170447	7,939	25	170467	18,773	10	170489	16,488	10	
2 1/4	170428	4,992	25	170448	8,720	25	170468	18,773	10	170490	17,127	10	
2 1/2	170429	5,462	25	170449	9,148	25	170469	15,136	10	170491	17,913	10	
2 3/4	170430	5,903	25	170450	9,979	10	170470	15,136	10	170492	19,099	10	
3	170431	6,363	25	170451	10,371	10	170471	15,858	10	170493	20,918	10	
3 1/4	170432	6,776	25	170452	10,826	10	170472	17,488	10	170494	21,728	10	
3 1/2	170433	7,177	25	170453	11,702	10	170473	17,488	10	170495	22,642	10	
3 3/4	170434	7,938	25	170454	12,561	10	170474	18,762	10	170496	24,923	10	
4	170435	8,148	25	170455	13,143	10	170475	19,657	10	170497	24,923	10	
4 1/4	170436	8,432	25	170456	13,466	10	170476	20,839	10	170498	27,479	10	
4 1/2	170437	8,747	25	170457	14,090	10	170477	21,831	10	170499	27,479	5	
5	170438	9,846	25	170458	14,987	10	170478	23,491	10	170500	30,662	5	
5 1/2	170439	11,327	20	170459	16,831	10	170479	24,747	10	170501	33,140	5	
6	170440	11,874	10	170460	17,278	10	170480	26,267	10	170502	34,674	5	
6 1/2	170441	13,853	10	170461	18,671	10	170481	27,720	5	170503	37,602	5	
7	170442	14,920	10	170462	18,671	10	170482	30,598	5	170504	40,528	5	
7 1/2	170443	15,985	10	170463	20,062	10	170483	32,181	5	170505	43,365	5	
8	170444	16,276	10	170464	21,983	10	170484	33,600	5	170506	45,372	5	
9	551069	18,310	10	170465	22,982	10	170485	38,178	5	170507	51,026	5	
10	551070	20,347	10	170466	25,857	8	170486	39,946	5	170508	55,953	4	
11				240038	27,482	8				170509	58,753	4	
12				551222	29,979	8				170510	64,093	4	

Grey highlighted items are full threaded

1. **Specifications** : Generally conforming to ANSI B 18.2.1

2. **Threads** : Unified Coarse, 2A as per ANSI B1.1.

3. **Material & Mechanical Properties** : Grade 8 as per SAE J 429

4. **Note** : Non-shaded sizes if required in full thread will cost 10% extra.

: Upto 4 Inch Dia can be manufactured against request.

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. For Hex Bolt/Screws BSW, above prices will apply.

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



Gr. 8 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	17,618	5						
1 1/4	170512	19,108	5						
1 1/2	170513	20,851	10						
1 3/4	170514	21,557	10						
2	170515	23,214	10						
2 1/4	170516	24,880	5	551302	32,914	5			
2 1/2	170517	26,301	5	170534	34,832	5	170551	42,176	5
2 3/4	170518	27,720	5	170535	36,486	5	170552	44,068	5
3	170519	29,376	5	551062	38,142	5	170553	46,203	5
3 1/4	170520	31,041	5	170537	40,278	5	170554	48,808	5
3 1/2	170521	32,459	5	170538	42,176	5	170555	51,180	5
3 3/4	170522	34,116	5	170539	44,304	5	170556	53,784	5
4	170523	35,772	5	170540	46,203	4	170557	56,155	5
4 1/4	170524	37,435	5	170541	48,094	5	170558	58,761	4
4 1/2	170525	39,093	5	170542	50,229	4	170559	61,131	4
5	170526	42,176	5	170543	54,256	5	170560	66,108	4
5 1/2	170527	45,489	5	170544	58,046	3	170561	71,083	3
6	170528	48,573	5	170545	62,080	4	170562	76,059	3
6 1/2				551072	66,780	3			
7	170529	54,971	3	170546	69,897	3	170563	85,776	3
7 1/2	170530	58,046	5	170547	73,689	3	170564	90,752	3
8	170531	61,366	3	170548	77,714	3	170565	95,728	3
9	170532	85,776	4	170549	85,776	3	170566	105,678	2
10	170533	74,160	3	170550	93,591	3	170567	115,630	2

Grey highlighted items are full threaded

- 1. Specifications :** Generally conforming to ANSI B 18.2.1
- 2. Threads :** Unified Coarse, 2A as per ANSI B1.1.
- 3. Material & Mechanical Properties :** Grade 8 as per SAE J 429
- 4. Note :** Non-shaded sizes if required in full thread will cost 10% extra.
: Upto 4 Inch Dia can be manufactured against request.
- 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.** For Hex Bolt/Screws BSW, above prices will apply.
- 7.** Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



Gr. 8 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	53,070	5	170585	85,709	3	170602	119,992	2
2 3/4	170569	55,677	5	170586	89,339	3	170603	124,921	2
3	170570	58,290	5	170587	92,979	3	170604	129,601	2
3 1/4	170571	60,652	4	170588	96,876	2	170605	134,530	2
3 1/2	170572	63,737	4	170589	100,505	2	170606	139,468	2
3 3/4	170573	66,579	4	170590	104,402	2	170607	144,406	2
4	170574	69,661	3	170591	108,824	2	170608	149,336	2
4 1/4	170575	72,504	3	170592	113,238	2	170609	154,275	2
4 1/2	170576	75,586	3	170593	117,650	2	170610	159,986	2
5	170577	81,504	3	170594	126,486	2	170611	171,679	2
5 1/2	170578	87,431	3	170595	135,313	2	170612	183,102	2
6	170579	93,357	2	170596	144,149	2	170613	194,793	2
7	170580	104,729	2	170597	161,284	2	170614	216,866	2
7 1/2	170581	110,653	3	170598	169,853	2	170615	228,559	2
8	170582	116,579	2	170599	178,945	2	170616	240,241	2
9	170583	128,423	2	170600	196,608	2	170617	263,098	2
10	170584	140,274	2	170601	214,269	2	170618	286,471	2

Grey highlighted items are full threaded

1. **Specifications** : Generally conforming to ANSI B 18.2.1

2. **Threads** : Unified Coarse, 2A as per ANSI B1.1.

3. **Material & Mechanical Properties** : Grade 8 as per SAE J 429

4. **Note** : Non-shaded sizes if required in full thread will cost 10% extra.

: Upto 4 Inch Dia can be manufactured against request.

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. For Hex Bolt/Screws BSW, above prices will apply.

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



Hex Nuts - ISO 4032 - Class 10

Size (mm)	Grade	Part No.	₹ Price/100 pcs	Pcs. Per Box	Pcs. Per Carton
M4 X 0.7	8	793230	91	1000	18000
M5 X 0.8	8	793201	113	700	12600
M6 X 1	8	550303	153	500	9000
M8 X 1.25	8	550304	209	200	2400
M10 X 1.5	8	550305	404	200	2400
M12 X 1.75	8	550306	631	200	1600
M16 X 2	8	550307	1,310	100	800
M6 X 1	10	170619	182	500	9000
M8 X 1.25	10	170620	239	200	2400
M10 X 1.5	10	170621	461	200	2400
(M12) X 1.5	10	170623	718	200	2400
M12 X 1.75	10	170622	718	200	2400
(M14) X 1.5	10	170625	1,206	100	800
M14 X 2	10	170626	1,206	100	800
M16 X 2	10	170627	1,580	100	800
(M18) X1.5	10	170629	2,372	100	600
M18 X 2.5	10	170630	2,372	100	600
(M20)X 1.5	10	170631	3,037	50	300
M20 X 2.5	10	170632	3,037	50	300
M22 X 2.5	10	170633	4,134	50	200
M24 X 3	10	170634	5,221	50	200
M27 X 3	10	170635	8,430	25	150
M30 X 3.5	10	170636	12,139	25	150
M33 X 3.5	10	170637	16,700	10	80
M36 X 4	10	170638	21,557	10	80
M39 X 4	10	170639	29,404	10	40
M42 X 4.5	10	170640	36,117	10	40
M45 X 4.5	10	170641	43,148	10	40
M48 X 5	10	170642	51,983	10	40
M52 X 5	10	170643	61,548	4	16
M56 X 5.5	10	170644	79,554	4	16
M60 X 5.5	10	550301	149,161	3	12
M64 X 6	10	170645	159,106	3	12
M72 X 6	10	550302	284,865	2	8

1. **Specifications** : 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.

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. Nuts as per DIN934 will be manufactured against specific order with minimum order quantity of each size

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



Hex Nuts

Size	Grade	Part No	₹ Price/100 pcs	Pcs. Per Box	Pcs. Per Carton
1/4	8	170646	167	500	9000
5/16	8	170647	231	500	9000
3/8	8	170648	333	200	2400
7/16	8	170658	760	200	1600
1/2	8	170649	760	200	1600
5/8	8	170650	1,580	200	1600
3/4	8	170651	2,785	50	400
7/8	8	170652	3,753	50	200
1	8	170653	5,898	50	200
1-1/8	8	170654	8,329	25	150
1-1/4	8	170655	11,815	25	100
1-3/8	8	170656	15,090	25	100
1-1/2	8	170657	20,523	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.
- 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.



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	179	500	9000
M8	630449	321	200	2400
M10	630450	709	200	2400
M12	630451	1,015	200	2400
M12X1.5	630452	1,077	200	2400
M14	630453	1,651	100	800
M16	630454	2,136	100	800
M16X1.5	630455	2,187	100	800
M20	630456	4,335	50	300
M20X1.5	630457	4,639	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	819	200	2400
M12	630459	1,183	200	2400
M16	630460	2,446	100	800
M16 X1.5	630461	2,545	100	800
M20	630462	4,599	50	300
M24	630463	10,235	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	124	500	9000
M8	290002	246	200	2400
M10	290003	535	200	2400
M12	290004	783	200	2400
M12 X1.5	290005	841	200	2400
M14	290006	1,287	100	800
M16	560957	1,732	100	800
M16X1.5	630379	1,773	100	800
M20	630380	3,738	50	300
M20 X1.5	630381	3,999	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	633	200	2400
M12	630306	935	200	2400
M16	290007	1,994	100	800
M16 X 1.5	290008	2,061	100	800
M20	290009	3,970	50	300
M24	290010	8,071	50	200



All Metal Prevailing Torque Nut
DIN 980M, Grade-10 (metal insert)
(Duly White Zinc Plated)

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	815003	1,126	500	9000
M8	815004	1,251	200	2400
M10	815005	1,389	200	2400
M12	815006	2,024	200	2400
M14	815013	3,066	100	800
M16	814419	4,048	100	800
M20	814420	8,487	50	300
M22	815007	12,144	50	300
M24	814421	18,355	50	300



All Metal Prevailing Torque Nut
DIN 980V / ISO7042, Grade-10
(Duly White Zinc Plated)

Size (mm)	Part No. DIN	Part No. ISO	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	796311		398	500	9000
M8	796314		772	200	2400
M10	816933	796315	1,343	200	2400
M12	816934	796313	2,122	200	2400
M16	796312		4,025	100	800
M20	796310		7,744	50	300
M24	787170		14,648	50	300

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	14	2000	160000	18MM	171767	220	100	2400
4MM	171759	17	2000	90000	20MM	171768	407	100	1500
5MM	171760	20	2000	48000	22MM	171769	456	50	1000
6MM	171761	22	1000	30000	24MM	171770	606	50	1200
8MM	171762	38	1000	24000	27MM	171771	695	50	700
10MM	171763	67	500	12000	30MM	171772	1,075	50	500
12MM	171764	80	500	7000	33MM	171773	1,266	25	400
14MM	171765	133	200	4800	36MM	171774	1,841	25	350
16MM	171766	199	100	3000	39MM	171775	1,992	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	14	2000	140000	18MM	171785	354	100	1800
4MM	171777	16	2000	120000	20MM	171786	506	100	1400
5MM	171778	21	2000	60000	22MM	171787	573	50	800
6MM	171779	37	1000	32000	24MM	171788	856	50	700
8MM	171780	60	1000	14000	27MM	171789	954	50	700
10MM	171781	87	500	7000	30MM	171790	1,541	50	500
12MM	171782	130	500	5000	33MM	171791	2,465	25	200
14MM	171783	201	200	3200	36MM	171792	2,581	25	350
16MM	171784	305	100	3000	39MM	171793	2,709	25	250



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

Hardened Washer for 10.g Bolts

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M12	551111	489	500	4000
M16	551112	855	200	1600
M20	551113	1,296	100	800
M22	631368	1,562	100	800
M24	551114	1,829	100	600
M27	630476	3,067	100	400
M30	630477	3,834	100	400
M36	796066	6,250	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	140	500	9000
M8	136001	266	200	2400
M10	136002	490	200	2400
M12	136003	697	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

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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 (TC Bolt)



Unbrako
Electric
Shear Wrench

UNBRAKO Auto Torque Check Bolt also known as Tension Control 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.



IS 3757 Heavy Hex 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	4,614	25	300021	8,528	25			
45	300002	5,025	25	300022	9,176	25			
50	300003	5,287	25	300023	9,596	25	300041	13,015	10
55	300004	5,460	25	300024	10,022	25	300042	13,385	10
60	300005	5,823	25	300025	10,710	20	300043	13,933	10
65	300006	6,142	25	300026	11,181	20	300044	15,208	10
70	300007	6,490	25	300027	11,582	10	300045	15,931	10
75	300008	6,947	25	300028	12,023	10	300046	16,428	10
80	300009	7,629	25	300029	12,363	10	300047	17,007	10
90	300010	8,000	25	300030	13,140	10	300048	18,697	10
100	300011	8,678	25	300031	13,898	10	300049	19,121	10
110	300012	9,371	25	300032	14,436	10	300050	20,641	10
120	300013	10,335	15	300033	15,658	10	300051	22,007	10
130	300014	11,866	10	300034	16,839	10	300052	23,235	10
140	300015	12,055	10	300035	17,360	10	300053	24,298	10
150	300016	14,294	10	300036	18,296	10	300054	25,478	10
160	300017	15,471	10	300037	21,793	10	300055	28,910	5
170	300018	16,428	10	300038	22,715	10	300056	30,124	5
180	300019	17,386	10	300039	23,641	10	300057	31,334	5
200	300020	19,610	10	300040	26,513	10	300058	33,683	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.



IS 3757 Heavy Hex 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	16,949	10									
60	300060	17,548	10	300076	35,733	5						
65	300061	19,007	10	300077	37,403	5						
70	300062	19,299	10	300078	37,151	5						
75	300063	20,993	10	300079	39,702	5	300092	47,954	5			
80	300064	21,399	10	300080	41,486	5	300093	49,653	5			
90	300065	23,644	5	300081	44,077	5	300094	51,024	5			
100	300066	25,397	5	300082	47,323	5	300095	54,716	5			
110	300067	26,019	5	300083	49,269	5	300096	59,562	5			
120	300068	27,038	5	300084	50,639	5	300097	60,718	5	581151	107,341	5
130	300069	28,212	5	300085	52,089	5	300098	63,635	5	581153	113,474	4
140	300070	29,423	5	300086	55,222	5	300099	67,406	5	581155	119,431	4
150	300071	30,753	5	300087	58,320	5	300100	71,043	5	581157	125,624	4
160	300072	34,945	5	300088	64,235	5	300101	80,223	4	581159	131,522	4
170	300073	37,876	5	300089	70,888	5	300102	88,190	4	581161	137,419	4
180	300074	39,586	5	300090	70,731	5	300103	88,048	4	581163	143,554	4
200	300075	42,530	5	300091	76,759	5	300104	95,787	4	581167	155,113	3
220							581122	103,527	3	581171	166,909	3
240							581126	111,267	3	581175	178,704	3
260							581130	119,008	3	581179	191,090	3
280										581183	202,886	3
300										581186	214,682	3

IS 6623 Heavy Hex Nuts

Metric

Diameter	M16	M20	M22	M24	M27	M30	M36
International Part No.	131001	131002	131003	131004	131005	131006	581348
₹ Price/100 pcs	2,255	4,566	5,331	7,650	12,377	15,665	27,012
Box Quantity	100	50	50	25	10	10	10

IS 6649 Structural Washer

Metric

Diameter	M16	M20	M22	M24	M27	M30	M36
International Part No.	132001	132002	132003	132004	132005	132006	581349
₹ Price/100 pcs	1,428	1,787	2,544	2,690	4,325	5,381	8,198
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 be given for Unbrako products which are plated by users or by outside platers, 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	7,257
130.32.11220	M16 x 1.5	T.S. Sq. Nut	D50, D50A 15	330002	3,674
130.32.11212/130.32.11220	M16 x 1.5 x 57	T.S. Bolt & Sq. Nut	D50, D50A 15	550287	10,931
205.32.51210	M18 x 1.5 x 58	T.S. Bolt	PC220	330003	8,931
01803.01824	M18 x 1.5	T.S. Sq. Nut	Pc220	330004	4,199
205.32.51210/01803.01824	M18 x 1.5 x 58	T.S. Bolt & Sq. Nut	PC220	550288	13,130
150.32.11210	M19 x 1.5 x 65	T.S. Bolt	D80, D80A 12	330005	11,165
150.32.11210/150.32.21311	M19 x 1.5 x 65	T.S. Bolt & Sq. Nut	D80, D80A 12	550289	15,539
113CT51096	M19 x 1.5 x 62	T.S. Bolt	D80, D80A 12	330006	11,165
113CT51096/150.32.21311	M19 x 1.5 x 62	T.S. Bolt & Sq. Nut	D80, D80A 12	550290	15,539
150.32.21311	M19 x 1.5	T.S. Sq. Nut	D80, D80A 12	330007	4,374
207.32.11350	M20 x 1.5 x 63	T.S. Bolt	PC300	330008	12,467
-----	M20 x 1.5	T.S. Sq. Nut	PC300	550308	4,724
207.32.11350	M20 x 1.5 x 63	T.S. Bolt & Sq. Nut	PC300	550291	17,191
176.32.11210	M24 x 1.5 x 78.5	T.S. Bolt	D155	330009	19,910
178.32.11220	M24 x 1.5	T.S. Sq. Nut	D155	330010	7,523
176.32.11210/178.32.11220	M24 x 1.5 x 78.5	T.S. Bolt & Sq. Nut	D155	550292	27,433
195.32.11210	M27 x 1.5 x 82.5	T.S. Bolt	D355	330011	26,051
195.32.11221	M27 x 1.5	T.S. Sq. Nut	D355	330012	10,848
195.32.11210/195.32.11221	M27 x 1.5 x 82.5	T.S. Bolt & Sq. Nut	D355	550294	36,898

Suitable for L & T Poclairn 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	7,257
K 01345.36	5/8" UNF	T.S. Sq. Nut	90 CK	330018	3,674
W 00 330.71/K 01345.36	5/8" UNFx2.1/4"	T.S. Bolt & Sq. Nut	90 CK	550296	10,931
U 02330-77	7/8" UNFx2.66"	T.S. Bolt	300 CK	330014	15,259
Z 02345-07	7/8" UNF	T.S. Sq. Nut	300 CK	330015	6,473
U 02330-77/Z 02345-07	7/8" UNFx2.66"	T.S. Bolt & Sq. Nut	300 CK	550300	24,523

- 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" UNF x 2.3/32"	T.S. Bolt	D4, D5	330016	6,885
5M 8756	5/8" UNF x 2.1/4"	T.S. Bolt	D4, D5	330017	7,257
1M 1408	5/8" UNF	T.S. Sq. Nut	D4, D5	330018	3,674
7H 3597/1M 1408	5/8" UNF x 2.3/32"	T.S. Bolt & Sq. Nut	D4, D5	550295	10,559
5M 8756/1M 1408	5/8" UNF x 2.1/4"	T.S. Bolt & Sq. Nut	D4, D5	550296	10,931
7 H3598	3/4" UNF x 2.3/8"	T.S. Bolt	D6, D7	330019	10,979
1S1860	3/4" UNF	T.S. Sq. Nut	D6, D7	330020	4,550
7 H3598/1S1860	3/4" UNF x 2.3/8"	T.S. Bolt & Sq. Nut	D6, D7	550297	15,528
7H 3599	7/8" UNF x 2.66" (2 21/32)	T.S. Bolt	D8	330014	15,259
2S2140	7/8" UNF (2 21/32)	T.S. Sq. Nut	D8	330015	6,473
7H 3599/2S2140	7/8" UNF x 2.66"	T.S. Bolt & Sq. Nut	D8	550298	21,732
9M 7445	1" UNS x 2.94" (2 15/16)	T.S. Bolt	D8	330021	21,771
1S6421	1" UNS	T.S. Sq. Nut	DS9	330022	8,923
9M 7445/1S6421	1" UNS x 2.94" (2 15/16)	T.S. Bolt & Sq. Nut	DS9	550299	30,694

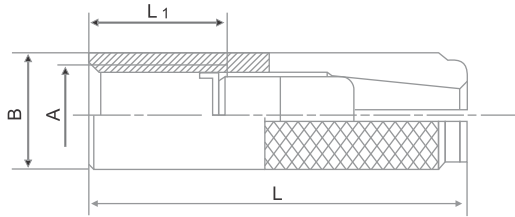
Suitable for HM-TEREX & HM DEMAG Earthmovers

Equivalent O.E. Part No. (For Ref. Only)	Size	Description	Model	International Part No.	₹ Price/ 100 pcs
01801340	3/4" x UNF x 2.3/4"	T.S. Bolt	H31, H36, H41	630419	12,233
06400140	3/4" UNF	T.S. Sq. Nut	H36	330020	4,550
01801340/06400140	3/4" x UNF x 2.3/4"	T.S. Bolt & Sq. Nut	H31, H36, H41	816932	16,782
06327940	7/8" UNF x 3.11/32" (84.9 mm)	T.S. Bolt	H51, H55	330023	18,050
06400240	7/8" UNF	T.S. Sq. Nut	H51	330015	6,473
06327940/06400240	7/8" UNF x 3.11/32" (84.9 mm)	T.S. Bolt & Sq. Nut	H51, H55	550300	24,523

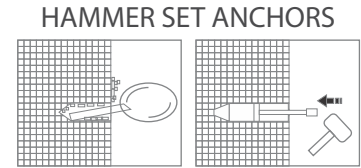
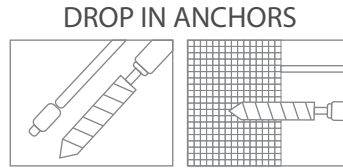
- 1. Specifications :** Forged from high grade alloy steel.
- 2. Mechanical Properties :** Track Shoe Bolt Grade 12.9, Square Nut HRC 32-38
- 3. Plating :** No guarantee can given for Unbrako products which are plated by users or by outside plates, who may not have considered hydrogen embrittlement problem.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



Drop In Anchors



Raw Material:
Special steel developed by UNBRAKO USA



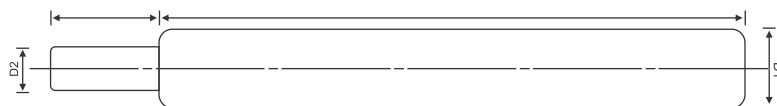
Value Are In KN

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 pcs
DANCH0625ZP	551654	M6	8.0	10	25	100	3600	630
DANCH0830ZP	551655	M8	10.0	13	30	100	1800	823
DANCH1040ZP	551656	M10	12.0	15	40	50	1000	1,280
DANCH1250ZP	530269	M12	16.0	20	50	50	600	3,032
DANCH1660ZP	551657	M16	20.0	25	60	25	300	5,109

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 BS EN 14399-9

(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	2,837	100	1200
M20	370002	5,070	100	800
M22	370003	6,137	50	400
M24	370004	8,219	50	400
M27	370005	10,407	50	300



Direct Tension Indicator BS EN 14399-9

(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	8,219	50	400
M27	370007	10,407	50	300
M30	370008	15,181	25	200
M36	370009	21,806	25	150



1. **Specification** : Generally conforming to BS EN 14399-9

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

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78	Plain Washer 304 / 316
78	Threaded Rod 304 / 316



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



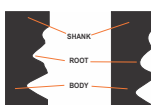
Contour-following flow lines provide extra shear strength in threads, resist stripping and provide high fatigue resistance. The large root radius, an UNBRAKO socket screw development, doubles fatigue life compared to flat root thread forms.

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.

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	315	500	5000738	452	500										
8	5000731	332	500	5000739	446	500										
10	5000732	185	500	5000740	241	500	5000749	296	500	5000762	476	200				
12	5000733	197	500	5000741	252	500	5000750	323	500	5000763	486	200	5000780	1,247	200	
16	5000734	214	500	5000742	272	500	5000751	370	500	5000764	530	200	5000781	1,026	200	
20	5000735	241	500	5000743	311	500	5000752	413	200	5000765	590	200	5000782	1,129	200	
25	5000736	268	200	5000744	355	500	5000753	476	200	5000766	674	200	5000783	1,238	200	
30	5000737	466	200	5000745	446	500	5000754	560	200	5000767	730	200	5000784	1,411	200	
35				5000746	525	200	5000755	660	200	5000768	865	200	5000785	1,534	200	
40				5000747	727	200	5000756	768	200	5000769	949	200	5000786	1,689	200	
45				5002525	791	200	5000757	851	200	5000770	1,033	200	5000787	1,913	200	
50				5000748	855	200	5000758	912	200	5000771	1,112	200	5000788	2,031	200	
55							5000759	1,174	200	5000772	1,327	200	5000789	2,223	100	
60							5000760	1,230	200	5000773	1,401	200	5000790	2,326	100	
65							5000761	1,337	200	5000774	1,552	200	5000791	2,558	100	
70										5000775	1,649	200	5000792	2,644	100	
75										5000776	1,837	200	5000793	2,846	100	
80										5000777	1,941	200	5000794	3,097	100	
90										5000778	2,232	200	5000795	3,606	100	
100										5000779	2,496	200	5000796	3,935	100	
110													5000797	4,609	100	
120													5000798	4,960	50	
125													5000799	5,151	50	
130													5000800	5,430	50	
140													5001471	5,916	50	
150													5001472	6,318	50	

1. **Specification** : DIN 912, ISO 4762.
2. **Property Class** : A2 - 70.
3. **Material** : AISI 304.
4. GST 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	1,884	200										
20	5000802	2,015	200	5000821	2,977	100							
25	5000803	2,200	100	5000822	3,204	100							
30	5000804	2,386	100	5000823	3,435	100	5000842	6,834	50				
35	5000805	2,617	100	5000824	3,750	100	5000843	7,290	50				
40	5000806	2,799	100	5000825	4,042	100	5000844	7,819	50	5000859	13,548	10	
45	5000807	3,053	100	5000826	4,321	50	5000845	8,279	50	5000860	14,673	10	
50	5000808	3,339	100	5000827	4,703	50	5000846	9,038	25	5000861	15,457	10	
55	5000809	3,596	100	5000828	5,008	50	5000847	9,645	25	5000862	16,191	10	
60	5000810	3,580	100	5000829	5,453	50	5000848	10,316	25	5000863	17,156	10	
65	5000811	3,781	100	5000830	5,709	50	5000849	10,883	20	5000864	18,173	10	
70	5000812	4,360	50	5000831	5,970	50	5000850	11,255	20	5000865	19,302	10	
75	5000813	4,779	50	5000832	6,384	50	5000851	12,089	20	5000866	20,535	10	
80	5000814	4,920	50	5000833	6,656	50	5000852	12,696	20	5000867	21,366	10	
90	5000815	5,436	50	5000834	7,377	50	5000853	14,049	10	5000868	23,524	10	
100	5000816	5,865	50	5000835	8,104	50	5000854	15,474	10	5000869	25,539	10	
110	5000817	6,961	50	5000836	9,240	25	5000855	17,127	20	5000870	29,266	10	
120	5000818	7,803	50	5000837	10,138	25	5000856	18,719	20	5001486	31,583	10	
125	5000819	8,004	50	5000838	10,712	25	5000857	19,470	20	5001487	32,742	10	
130	5000820	8,396	50	5000839	11,450	25	5001480	20,056	20	5001488	33,898	10	
140	5001473	9,097	50	5000840	12,200	25	5001481	21,444	20	5001489	36,214	10	
150	5001474	9,740	50	5000841	13,332	25	5000858	22,737	20	5001490	38,530	10	
160	5001475	12,089	50	5001476	14,592	25	5001482	25,094	10	5001491	46,530	10	
170	5001718	12,920	25	5001477	21,585	20	5001483	29,075	10	5001492	49,169	10	
180	5001719	13,698	25	5001478	22,155	20	5001484	31,580	10	5001493	51,809	10	
200	5001720	15,179	25	5001479	27,065	20	5001485	35,470	10	5001730	57,084	10	
220	5001721	16,759	20	5001724	29,595	20	5001727	39,884	10	5001731	69,757	10	
230	5001722	17,508	20	5001725	30,958	20	5001728	42,029	10	5001732	72,924	5	
250	5001723	19,006	20	5001726	33,760	20	5001729	45,857	10	5001733	79,252	5	

1. Specification : DIN 912, ISO 4762.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. GST 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	25,006	10	5000891	31,119	10	5000910	41,600	5				
55	5000872	26,308	10	5000892	32,779	10	5000911	44,197	5				
60	5000873	27,607	10	5000893	34,234	10	5000912	46,799	5	5000929	68,660	5	
65	5000874	29,109	10	5000894	35,788	10	5000913	49,399	5	5000930	71,851	5	
70	5000875	30,606	10	5000895	37,656	10	5000914	51,997	5	5000931	75,043	5	
75	5000876	32,789	10	5000896	40,340	10	5000915	55,711	5	5000932	80,395	5	
80	5000877	33,610	10	5000897	41,390	10	5000916	57,198	5	5000933	81,542	5	
90	5000879	36,611	10	5000898	45,124	10	5000917	62,517	5	5000934	88,043	5	
100	5000880	39,612	10	5000899	48,859	10	5000918	67,833	5	5000935	94,543	5	
110	5000881	42,613	10	5000900	52,593	10	5000919	73,152	5	5000936	101,041	5	
120	5000882	45,612	5	5000901	56,327	10	5000920	78,471	5	5000937	107,539	5	
125	5000883	47,515	5	5000902	58,669	5	5000921	81,732	5	5000938	112,021	5	
130	5000884	48,615	5	5000903	60,061	5	5000922	83,786	5	5000939	114,042	5	
140	5000885	51,615	5	5000904	63,794	5	5000923	89,106	5	5000940	120,540	5	
150	5000886	54,615	5	5000905	67,532	5	5000924	94,425	5	5000941	127,633	5	
160	5000887	65,638	5	5000906	81,189	5	5000925	116,364	5	5000942	155,795	4	
170	5000888	69,740	5	5000907	86,257	5	5000926	123,630	5	5000943	165,462	4	
180	5000889	72,474	5	5000908	89,696	5	5000927	128,772	5	5000944	170,962	4	
200	5000890	79,312	5	5000909	98,205	5	5000928	140,629	5	5000945	186,128	5	
220	5001734	95,722	5	5001737	118,569	5	5001743	153,038	4	5001749	201,293	3	
230	5001735	100,028	5	5001738	123,955	5	5001744	159,932	4	5001750	210,393	3	
250	5001736	108,765	5	5001739	133,277	5	5001745	176,616	4	5001751	225,421	3	
270				5001740	143,914	5	5001746	191,782	3	5001752	240,451	2	
280				5001741	149,297	5	5001747	198,951	3	5001753	246,792	2	
300				5001742	160,061	5	5001748	213,152	3	5001754	261,958	2	

1. Specification : DIN 912, ISO 4762.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. GST 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	Part No.	₹ Price/ 100 Pcs Box Qty		
6	5000946	428	500	5000953	615	500									
8	5000947	451	500	5000954	606	500									
10	5000948	251	500	5000955	327	500	5000963	402	500	5000974	647	200			
12	5000949	268	500	5000956	343	500	5000964	439	500	5000975	661	200	5000992	1,696	200
16	5000950	291	500	5000957	370	500	5000965	503	500	5000976	720	200	5000993	1,396	200
20	5000951	327	500	5000958	423	500	5000966	562	200	5000977	803	200	5000994	1,536	200
25	5000952	364	200	5000959	483	500	5000967	647	200	5000978	917	200	5000995	1,683	200
30	5001494	634	200	5000960	606	500	5000968	762	200	5000979	993	200	5000996	1,920	200
35				5000961	715	200	5000969	897	200	5000980	1,176	200	5000997	2,087	200
40				5000962	989	200	5000970	1,045	200	5000981	1,290	200	5000998	2,297	200
45				5002526	1,098	200	5000971	1,158	200	5000982	1,404	200	5000999	2,602	200
50				5001495	1,163	200	5000972	1,240	200	5000983	1,512	200	5001000	2,762	200
55							5000973	1,596	200	5000984	1,805	200	5001001	3,024	100
60							5001496	1,672	200	5000985	1,905	200	5001002	3,164	100
65							5001497	1,819	200	5000986	2,111	200	5001003	3,479	100
70										5000987	2,242	200	5001004	3,596	100
75										5000988	2,498	200	5001005	3,871	100
80										5000989	2,640	200	5001006	4,211	100
90										5000990	3,035	200	5001007	4,904	100
100										5000991	3,395	200	5001008	5,351	100
110													5001498	6,268	100
120													5001499	6,746	50
125													5001500	7,006	50
130													5001501	7,384	50
140													5001502	8,046	50
150													5001503	8,593	50

1. Specification : DIN 912, ISO 4762.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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	2,563	200										
20	5001009	2,741	200	5001512	4,049	100							
25	5001010	2,992	100	5001024	4,358	100							
30	5001011	3,245	100	5001025	4,672	100	5001523	9,295	50				
35	5001012	3,559	100	5001026	5,099	100	5001038	9,914	50				
40	5001013	3,807	100	5001027	5,497	100	5001039	10,633	50	5001050	18,425	10	
45	5001014	4,152	100	5001028	5,877	50	5001040	11,259	50	5001051	19,955	10	
50	5001015	4,540	100	5001029	6,396	50	5001041	12,292	25	5001052	21,021	10	
55	5001016	4,891	100	5001030	6,811	50	5001042	13,117	25	5001053	22,019	10	
60	5001017	4,869	100	5001031	7,417	50	5001043	14,030	25	5001054	23,332	10	
65	5001018	5,142	100	5001032	7,764	50	5001044	14,801	20	5001055	24,715	10	
70	5001019	5,929	50	5001033	8,119	50	5001045	15,307	20	5001056	26,251	10	
75	5001020	6,499	50	5001034	8,682	50	5001046	16,442	20	5001057	27,928	10	
80	5001021	6,691	50	5001035	9,052	50	5001047	17,267	20	5001058	29,058	10	
90	5001022	7,393	50	5001036	10,033	50	5001048	19,107	10	5001059	31,993	10	
100	5001023	7,977	50	5001037	11,022	50	5001049	21,045	10	5001060	34,733	10	
110	5001505	9,466	50	5001513	12,566	25	5001524	23,293	20	5001534	39,801	10	
120	5001506	10,612	50	5001514	13,788	25	5001525	25,458	20	5001535	42,953	10	
125	5001507	10,885	50	5001515	14,568	25	5001526	26,479	20	5001536	44,529	10	
130	5001508	11,418	50	5001516	15,571	25	5001528	27,276	20	5001537	46,101	10	
140	5001509	12,372	50	5001517	16,592	25	5001529	29,164	20	5001538	49,251	10	
150	5001510	13,246	50	5001518	18,132	25	5001527	30,922	20	5001539	52,401	10	
160	5001511	16,442	50	5001519	19,845	25	5001530	34,128	10	5001540	63,281	10	
170	5001755	17,572	25	5001520	29,355	20	5001531	39,543	10	5001541	66,870	10	
180	5001756	18,629	25	5001521	30,130	20	5001532	42,949	10	5001542	70,460	10	
200	5001757	20,644	25	5001522	36,808	20	5001533	48,240	10	5001767	77,634	10	
220	5001758	22,792	20	5001761	40,249	20	5001764	54,243	10	5001768	94,870	10	
230	5001759	23,811	20	5001762	42,103	20	5001765	57,159	10	5001769	99,177	5	
250	5001760	25,848	20	5001763	45,913	20	5001766	62,366	10	5001770	107,783	5	

1. Specification : DIN 912, ISO 4762.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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	34,009	10	5001080	42,323	10	5001099	56,576	5				
55	5001062	35,778	10	5001081	44,579	10	5001100	60,108	5				
60	5001063	37,546	10	5001082	46,558	10	5001101	63,647	5	5001118	93,378	5	
65	5001064	39,588	10	5001083	48,672	10	5001102	67,182	5	5001119	97,718	5	
70	5001065	41,625	10	5001084	51,212	10	5001103	70,716	5	5001120	102,059	5	
75	5001066	44,593	10	5001085	54,862	10	5001104	75,767	5	5001121	109,337	5	
80	5001067	45,709	10	5001086	56,290	10	5001105	77,790	5	5001122	110,897	5	
90	5001068	49,791	10	5001087	61,368	10	5001106	85,024	5	5001123	119,739	5	
100	5001069	53,872	10	5001088	66,448	10	5001107	92,252	5	5001124	128,578	5	
110	5001070	57,953	10	5001089	71,527	10	5001108	99,486	5	5001125	137,415	5	
120	5001071	62,032	5	5001090	76,605	10	5001109	106,720	5	5001126	146,253	5	
125	5001072	64,621	5	5001091	79,790	5	5001110	111,156	5	5001127	152,349	5	
130	5001073	66,116	5	5001092	81,683	5	5001111	113,949	5	5001128	155,096	5	
140	5001074	70,197	5	5001093	86,760	5	5001112	121,184	5	5001129	163,934	5	
150	5001075	74,276	5	5001094	91,843	5	5001113	128,418	5	5001130	173,581	5	
160	5001076	89,267	5	5001095	110,416	5	5001114	158,255	5	5001131	211,882	4	
170	5001077	94,846	5	5001096	117,309	5	5001115	168,137	5	5001132	225,028	4	
180	5001078	98,564	5	5001097	121,987	5	5001116	175,130	5	5001133	232,509	4	
200	5001079	107,864	5	5001098	133,559	5	5001117	191,256	5	5001134	253,135	5	
220	5001771	130,182	5	5001774	161,253	5	5001780	208,132	5	5001786	273,758	3	
230	5001772	136,039	5	5001775	168,579	5	5001781	217,507	4	5001787	286,134	3	
250	5001773	147,921	5	5001776	181,256	5	5001782	240,197	4	5001788	306,573	3	
270				5001777	195,723	5	5001783	260,823	3	5001789	327,013	2	
280				5001778	203,044	5	5001784	270,574	3	5001790	335,637	2	
300				5001779	217,683	5	5001785	289,886	3	5001791	356,263	2	



Socket Countersunk Head Cap Screws (CSK) - A2-70

Metric

DIA	M3*		M4*		M5		M6		M8		
	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
8	5001248	102	5001253	147	5001262	194					
10	5001249	109	5001254	155	5001263	215	5001272	280			
12	5001250	123	5001255	167	5001264	230	5001273	296			
14					5010286	242	5010289	316			
16	5001251	146	5001256	199	5001265	253	5001274	335	5001286	846	
18			5010285	207	5010287	272	5010290	363	5010293	862	
20	5001252	203	5001257	215	5001266	292	5001275	390	5001287	878	
25	5010284	271	5001258	274	5001267	349	5001276	455	5001288	971	
30			5001259	309	5001268	412	5001277	533	5001289	1,082	
35			5001260	339	5001269	466	5001278	606	5001290	1,182	
40			5001261	392	5001270	519	5001279	726	5001291	1,288	
45					5010288	589	5010291	731	5010294	1,437	
50					5001271	660	5001280	737	5001292	1,587	
55							5010292	877	5010295	1,758	
60									5001293	1,931	



Socket Countersunk Head Cap Screws (CSK) - A2-70 - Metric

DIA	M10 Wrench Key Size 6mm		M12 Wrench Key Size 8mm		M16 Wrench Key Size 10mm	
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
20	5001298	1,589				
25	5001299	1,774	5001309	3,651		
30	5001300	1,938	5001310	4,107	5010304	5,802
35	5001301	2,068	5001311	4,517	5010305	6,541
40	5001302	2,311	5001312	4,641	5010306	6,250
45	5010296	2,505	5010300	4,987	5010307	6,892
50	5001303	2,699	5001313	5,335	5010308	7,526
55	5010297	2,859	5010301	5,611	5010309	8,178
60	5001304	3,020	5001314	5,889	5010310	8,803
65	5010298	3,229	5010302	6,207	5010311	9,465
70	5001305	3,440	5001315	6,525	5010312	10,656
75	5010299	3,600	5010303	6,779	5010313	11,423
80	5001306	3,759	5001316	7,034	5010314	12,191
90	5001307	4,245			5010315	13,728
100					5010316	15,263
Qty. Per Box	100		50		50	

1. **Specification** : DIN 7991 / ISO 10642
2. **Property Class** : A2 - 70.
3. **Material** : AISI 304.
4. GST extra as applicable.
5. All Cold Forged & fully threaded up to head.
6. **Marking** : UNBRAKO A2 - 70.

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

Quantity per box 25

Quantity per box 200



Hex Head Screws

Metric S.S. 304

DIA	M3			M4			M5			M6		
	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	5000001	140	500	5000011	195	500	5000021	253	500	5000037	360	500
12	5000002	151	500	5000012	203	500	5000022	271	500	5000038	371	500
16	5000003	160	500	5000013	220	500	5000023	311	500	5000039	411	500
20	5000004	181	500	5000014	243	500	5000024	348	500	5000040	456	500
25	5000005	208	200	5000015	274	500	5000025	391	500	5000041	511	500
30	5000006	360	200	5000016	343	500	5000026	448	500	5000042	571	500
35	5000007	435	200	5000017	396	500	5000027	528	500	5000043	631	200
40	5000008	538	200	5000018	551	500	5000028	603	500	5000044	688	200
45	5000009	582	200	5000019	588	500	5000029	661	500	5000045	743	200
50	5000010	627	200	5000020	613	500	5000030	706	500	5000046	802	200
55							5000031	904	500	5000047	962	200
60							5000032	931	200	5000048	1,004	200
65							5000033	999	200	5000049	1,102	100
70							5000034	1,065	200	5000050	1,150	100
75							5000035	1,147	200	5000051	1,287	100
80							5000036	1,212	200	5000052	1,332	100
85										5000053	1,506	100
90										5000054	1,534	100
100										5000055	1,718	100



Hex Head Screws

Metric S.S. 304

DIA	M8			M10				M12			
	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	811	200	5000073	5000280	1,523	200				
20	5000057	894	200	5000074	5000281	1,616	200	5000090	5000297	2,496	100
25	5000058	987	200	5000075	5000282	1,774	200	5000091	5000298	2,657	100
30	5000059	1,116	200	5000076	5000283	1,934	100	5000092	5000299	2,853	100
35	5000060	1,195	200	5000077	5000284	2,137	100	5000093	5000300	3,123	100
40	5000061	1,301	200	5000078	5000285	2,294	100	5000094	5000301	3,376	100
45	5000062	1,462	200	5000079	5000286	2,458	100	5000095	5000302	3,605	50
50	5000063	1,527	200	5000080	5000287	2,653	100	5000096	5000303	3,880	50
55	5000064	1,664	100	5000081	5000288	2,825	100	5000097	5000304	4,081	50
60	5000065	1,729	100	5000082	5000289	2,999	100	5000098	5000305	4,324	50
65	5000066	1,889	100	5000083	5000290	3,232	50	5000099	5000306	4,561	50
70	5000067	1,941	100	5000084	5000291	3,341	50	5001100	5000307	4,794	50
75	5000068	2,061	100	5000085	5000292	3,609	50	5001101	5000308	5,043	50
80	5000069	2,262	100	5000086	5000293	3,722	50	5001102	5000309	5,262	50
85	5000070	2,400	100	5000087	5000294	3,992	50	5001103	5000310	5,523	25
90	5000071	2,592	100	5000088	5000295	4,063	50	5001104	5000311	5,762	25
100	5000072	2,770	50	5000089	5000296	4,348	50	5001105	5000312	6,269	25
110	5000198	3,216	50	5000204	5000338	5,081	50	5000211	5000345	7,094	25
120	5000199	3,459	50	5000205	5000339	5,629	25	5000212	5000346	7,715	25
125	5000200	3,592	50	5000206	5000340	5,772	50	5000213	5000347	8,142	25
130	5000201	3,787	50	5000207	5000341	5,981	50	5000214	5000348	8,622	25
140	5000202	4,129	50	5000208	5000342	6,420	50	5000215	5000349	9,070	25
150	5000203	4,379	50	5000209	5000343	6,796	30	5000216	5000350	9,827	25
160				5000210	5000344	8,471	25	5000217	5000351	10,984	20
170				5001543	5001606	9,001	25	5000218	5000352	16,397	20
180				5001544	5001607	9,494	25	5000219	5000353	16,839	20
200				5001545	5001608	10,423	25	5000220	5000354	20,283	25
220				5001546	5001609	11,339	20	5001549	5001612	22,163	25
230				5001547	5001610	11,813	20	5001550	5001613	23,008	20
250				5001548	5001611	12,753	20	5001551	5001614	24,761	20

1. Specification : DIN 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. GST 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		
	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
25	5000106	5000313	4,509	50	5000121	5,783	25			
30	5000107	5000314	4,851	50	5000122	5,849	25			
35	5000108	5000315	5,215	25	5000123	6,235	25			
40	5000109	5000316	5,501	25	5000124	6,696	25	5000136	11,579	25
45	5000110	5000317	5,900	25	5000125	7,108	25	5000137	12,466	25
50	5000111	5000318	6,235	25	5000126	7,587	25	5000138	12,953	25
55	5000112	5000319	6,683	25	5000127	8,033	25	5000139	14,024	25
60	5000113	5000320	6,906	25	5000128	8,539	25	5000140	14,571	25
65	5000114	5000321	7,423	25	5000129	8,878	25	5000141	15,476	25
70	5000115	5000322	7,698	25	5000130	9,118	25	5000142	16,027	25
75	5000116	5000323	8,066	25	5000131	9,638	25	5000143	16,934	10
80	5000117	5000324	8,457	25	5000132	10,223	25	5000144	17,599	10
85	5000118	5000325	9,200	25	5000133	10,642	25	5000145	18,318	10
90	5000119	5000326	9,666	25	5000134	11,175	25	5000146	18,897	10
100	5000120	5000327	9,949	25	5000135	12,189	15	5000147	19,947	10
110	5001552	5001615	11,453	25	5000221	13,467	15	5001568	23,255	10
120	5001553	5001616	12,292	25	5000222	14,617	15	5001569	24,840	10
125	5001554	5001617	12,709	25	5000223	15,110	15	5001570	25,730	10
130	5001555	5001618	13,128	25	5000224	15,550	15	5001571	26,520	10
140	5001556	5001619	13,963	25	5000225	16,603	15	5001572	28,103	10
150	5001557	5001620	14,797	25	5000226	17,862	15	5001573	29,688	10
160	5001558	5001621	15,633	25	5000227	19,280	15	5001574	31,270	10
170	5001559	5001622	16,472	25	5000228	22,266	15	5001575	32,855	10
180	5001560	5001623	17,307	25	5000229	24,032	15	5001576	34,438	10
200	5001561	5001624	18,978	25	5000230	26,883	10	5001577	37,603	10
220	5001562	5001625	20,652	20	5001565	29,896	10	5001578	41,462	10
230	5001563	5001626	21,488	20	5001566	31,382	10	5001579	43,147	10
250	5001564	5001627	23,159	20	5001567	33,991	10	5001580	46,413	10

1. Specification : DIN 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. GST 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	12,149	25								
45	5000149	13,059	25								
50	5000150	13,719	25	5000160	5000328	19,581	10	5000170	23,076	10	
55	5000151	14,254	25	5000161	5000329	20,914	10	5000171	24,583	10	
60	5000152	15,014	25	5000162	5000330	22,464	10	5000172	26,357	10	
65	5000153	15,897	10	5000163	5000331	23,070	10	5000173	28,972	10	
70	5000154	16,811	10	5000164	5000332	24,340	10	5000174	30,150	10	
75	5000155	17,451	10	5000165	5000333	25,726	10	5000175	32,013	10	
80	5000156	18,281	10	5000166	5000334	26,635	10	5000176	32,712	10	
85	5000157	18,992	10	5000167	5000335	28,298	10	5000177	34,012	10	
90	5000158	19,762	10	5000168	5000336	28,925	10	5000178	34,677	10	
100	5000159	21,194	10	5000169	5000337	29,863	10	5000179	37,813	10	
110	5000231	24,457	10	5000240	5000355	32,609	10	5000250	41,754	5	
120	5000232	25,990	10	5000241	5000356	35,497	10	5000251	43,994	10	
125	5000233	26,785	10	5000242	5000357	35,964	10	5000252	45,720	5	
130	5000234	27,727	10	5000243	5000358	37,066	10	5000253	45,965	5	
140	5000235	29,383	10	5000244	5000359	39,309	10	5000254	49,252	5	
150	5000236	31,728	10	5000245	5000360	42,308	10	5000255	55,600	5	
160	5000237	33,171	10	5000246	5000361	45,448	5	5000256	56,819	5	
170	5000238	34,898	10	5000247	5000362	48,670	5	5000257	59,280	5	
180	5000239	36,484	10	5000248	5000363	50,550	5	5000258	62,571	5	
200	5001581	41,925	10	5000249	5000364	55,732	5	5000259	68,058	5	
220	5001582	46,523	5	5001585	5001628	58,533	5	5001588	73,875	5	
230	5001583	48,625	5	5001586	5001629	60,745	5	5001589	76,766	5	
250	5001584	52,090	5	5001587	5001630	65,336	5	5001590	83,551	5	
270								5001591	88,780	4	
280								5001592	98,271	4	
300								5001593	102,659	4	

1. Specification : DIN 933.
2. Property Class : A2 - 70.
3. Material : AISI 304.
4. GST 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.



Metric S.S. 304
Fully Threaded

Hex Head Screws

DIA	M27		
Length	Part No.	₹ Price/100 Pcs	Box Qty
50	5000180	35,693	5
55	5000181	37,549	5
60	5000182	39,066	5
65	5000183	41,434	5
70	5000184	43,300	5
75	5000185	45,164	5
80	5000186	47,225	5
85	5000187	49,307	5
90	5000188	50,973	5
100	5000189	54,620	5
110	5000260	58,941	5
120	5000261	62,721	5
125	5000262	64,357	5
130	5000263	66,378	5
140	5000264	69,111	5
150	5000265	72,099	5
160	5000266	75,776	5
170	5000267	79,451	5
180	5000268	83,128	5
200	5000269	90,478	5
220	5001594	97,388	4
230	5001595	101,581	4
250	5001596	108,888	4
270	5001597	116,095	3
280	5001598	119,796	3
300	5001599	127,004	3

M30		
Part No.	₹ Price/100 Pcs	Box Qty
5000190	51,709	5
5000191	54,579	5
5000192	56,682	5
5000193	58,784	5
5000194	60,890	5
5000195	62,991	5
5000196	65,473	5
5000197	70,566	5
5000270	75,516	5
5000271	80,170	5
5000272	82,692	5
5000273	84,822	5
5000274	89,475	5
5000275	94,132	3
5000276	98,784	3
5000277	103,438	3
5000278	108,090	3
5000279	117,396	5
5001600	127,154	3
5001601	132,007	3
5001602	141,712	3
5001603	151,420	3
5001604	156,270	2
5001605	165,977	2

Hexagon Head Screws

Metric S.S. 316
Fully Threaded

DIA	M3		
Length	Part No.	₹ Price/100 Pcs	Box Qty
10	5000365	190	500
12	5000366	206	500
16	5000367	217	500
20	5000368	246	500
25	5000369	283	200
30	5000370	489	200
35	5000371	591	200
40	5000372	731	200
45	5000373	792	200
50	5000374	853	200
55			
60			
65			
70			
75			
80			

M4		
Part No.	₹ Price/100 Pcs	Box Qty
5000375	265	500
5000376	276	500
5000377	299	500
5000378	330	500
5000379	373	500
5000380	466	500
5000381	539	500
5000382	749	500
5000383	800	500
5000384	833	500

M5		
Part No.	₹ Price/100 Pcs	Box Qty
5000385	344	500
5000386	368	500
5000387	423	500
5000388	474	500
5000389	532	500
5000390	609	500
5000391	718	500
5000392	820	500
5000393	898	500
5000394	960	500
5000395	1,230	500
5000396	1,266	200
5000397	1,359	200
5000398	1,448	200
5000399	1,560	200
5000400	1,649	200



Hex Head Screws

Metric S.S. 316

DIA	M6			M8			M10				
	Length	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	489	500								
12	5000402	504	500								
16	5000403	559	500	5000420	1,103	200	5000443	5000645	2,072	200	
20	5000404	620	500	5000421	1,215	200	5000444	5000646	2,197	200	
25	5000405	694	500	5000422	1,342	200	5000445	5000647	2,412	200	
30	5000406	777	500	5000423	1,518	200	5000446	5000648	2,631	100	
35	5000407	858	200	5000424	1,625	200	5000447	5000649	2,906	100	
40	5000408	935	200	5000425	1,770	200	5000448	5000650	3,119	100	
45	5000409	1,010	200	5000426	1,988	200	5000449	5000651	3,343	100	
50	5000410	1,091	200	5000427	2,076	200	5000450	5000652	3,609	100	
55	5000411	1,308	200	5000428	2,264	100	5000451	5000653	3,842	100	
60	5000412	1,365	200	5000429	2,352	100	5000452	5000654	4,079	100	
65	5000413	1,499	100	5000430	2,569	100	5000453	5000655	4,396	50	
70	5000414	1,565	100	5000431	2,640	100	5000454	5000656	4,544	50	
75	5000415	1,751	100	5000432	2,802	100	5000455	5000657	4,908	50	
80	5000416	1,811	100	5000433	3,077	100	5000456	5000658	5,061	50	
85	5000417	2,048	100	5000434	3,264	100	5000457	5000659	5,429	50	
90	5000418	2,087	100	5000435	3,525	100	5000458	5000660	5,526	50	
100	5000419	2,336	100	5000436	3,767	50	5000459	5000661	5,914	50	
110				5000437	4,374	50	5000460	5000662	6,910	50	
120				5000438	4,704	50	5000461	5000663	7,655	25	
125				5000439	4,885	50	5000462	5000664	7,850	50	
130				5000440	5,150	50	5000463	5000665	8,133	50	
140				5000441	5,616	50	5000464	5000666	8,732	50	
150				5000442	5,956	50	5000465	5000667	9,242	30	
160							5000466	5000668	11,520	25	
170							5001631	5001693	12,242	25	
180							5001632	5001694	12,912	25	
200							5001633	5001695	14,175	25	
220							5001634	5001696	15,421	20	
230							5001635	5001697	16,065	20	
250							5001636	5001698	17,344	20	

1. Specification : DIN 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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	3,395	100							
25	5000468	5000670	3,613	100	5000493	5000695	6,132	50	5000508	7,865	25
30	5000469	5000671	3,880	100	5000494	5000696	6,597	50	5000509	7,954	25
35	5000470	5000672	4,247	100	5000495	5000697	7,092	25	5000510	8,480	25
40	5000471	5000673	4,591	100	5000496	5000698	7,482	25	5000511	9,107	25
45	5000472	5000674	4,903	50	5000497	5000699	8,024	25	5000512	9,667	25
50	5000473	5000675	5,276	50	5000498	5000700	8,480	25	5000513	10,319	25
55	5000474	5000676	5,551	50	5000499	5000701	9,089	25	5000514	10,924	25
60	5000475	5000677	5,881	50	5000500	5000702	9,392	25	5000515	11,613	25
65	5000476	5000678	6,203	50	5000501	5000703	10,096	25	5000516	12,075	25
70	5000477	5000679	6,520	50	5000502	5000704	10,469	25	5000517	12,401	25
75	5000478	5000680	6,859	50	5000503	5000705	10,970	25	5000518	13,107	25
80	5000479	5000681	7,156	50	5000504	5000706	11,501	25	5000519	13,904	25
85	5000480	5000682	7,511	25	5000505	5000707	12,512	25	5000520	14,474	25
90	5000481	5000683	7,837	25	5000506	5000708	13,145	25	5000521	15,198	25
100	5000482	5000684	8,525	25	5000507	5000709	13,531	25	5000522	16,577	15
110	5000483	5000685	9,648	25	5001640	5001702	15,576	25	5000523	18,315	15
120	5000484	5000686	10,492	25	5001641	5001703	16,717	25	5000524	19,879	15
125	5000485	5000687	11,073	25	5001642	5001704	17,284	25	5000525	20,550	15
130	5000486	5000688	11,725	25	5001643	5001705	17,854	25	5000526	21,148	15
140	5000487	5000689	12,335	25	5001644	5001706	18,990	25	5000527	22,580	15
150	5000488	5000690	13,365	25	5001645	5001707	20,124	25	5000528	24,292	15
160	5000489	5000691	14,939	20	5001646	5001708	21,261	25	5000529	26,220	15
170	5000490	5000692	22,299	20	5001647	5001709	22,402	25	5000530	30,281	15
180	5000491	5000693	22,902	20	5001648	5001710	23,538	25	5000531	32,684	15
200	5000492	5000694	27,586	25	5001649	5001711	25,810	25	5000532	36,561	10
220	5001637	5001699	30,141	25	5001650	5001712	28,086	20	5001653	40,658	10
230	5001638	5001700	31,291	20	5001651	5001713	29,224	20	5001654	42,680	10
250	5001639	5001701	33,675	20	5001652	5001714	31,497	20	5001655	46,228	10

1. Specification : DIN 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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	15,747	25	5000546	16,522	25				
45	5000534	16,953	25	5000547	17,761	25				
50	5000535	17,615	25	5000548	18,658	25	5000567	5000710	26,630	10
55	5000536	19,072	25	5000549	19,386	25	5000568	5000711	28,442	10
60	5000537	19,817	25	5000550	20,419	25	5000569	5000712	30,551	10
65	5000538	21,047	25	5000551	21,620	25	5000570	5000713	31,375	10
70	5000539	21,797	25	5000552	22,864	25	5000571	5000714	33,103	10
75	5000540	23,031	10	5000553	23,733	25	5000572	5000715	34,988	10
80	5000541	23,934	10	5000554	24,862	10	5000573	5000716	36,223	10
85	5000542	24,912	10	5000555	25,829	10	5000574	5000717	38,485	10
90	5000543	25,700	10	5000556	26,877	10	5000575	5000718	39,338	10
100	5000544	27,129	10	5000557	28,823	10	5000576	5000719	40,613	10
110	5000545	31,627	10	5000558	33,262	10	5000577	5000720	44,348	10
120	5001656	33,783	10	5000559	35,346	10	5000578	5000721	48,276	10
125	5001657	34,992	10	5000560	36,427	10	5000579	5000722	48,912	10
130	5001658	36,067	10	5000561	37,708	10	5000580	5000723	50,410	10
140	5001659	38,220	10	5000562	39,962	10	5000581	5000724	53,460	10
150	5001660	40,376	10	5000563	43,150	10	5000582	5000725	57,539	10
160	5001661	42,528	10	5000564	45,112	10	5000583	5000726	61,809	5
170	5001662	44,684	10	5000565	47,461	10	5000584	5000727	66,191	5
180	5001663	46,835	10	5000566	49,618	10	5000585	5000728	68,748	5
200	5001664	51,140	10	5001668	57,018	10	5000586	5000729	75,796	5
220	5001665	56,389	10	5001669	63,271	5	5001672	5001715	79,605	5
230	5001666	58,680	10	5001670	66,129	5	5001673	5001716	82,613	5
250	5001667	63,121	10	5001671	70,842	5	5001674	5001717	88,857	5

1. Specification : DIN 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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		
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
50	5000587	31,384	10	5000607	48,543	5			
55	5000588	33,433	10	5000608	51,066	5			
60	5000589	35,846	10	5000609	53,129	5	5000627	70,325	5
65	5000590	39,402	10	5000610	56,351	5	5000628	74,227	5
70	5000591	41,004	10	5000611	58,888	5	5000629	77,087	5
75	5000592	43,538	10	5000612	61,423	5	5000630	79,947	5
80	5000593	44,489	10	5000613	64,225	5	5000631	82,811	5
85	5000594	46,256	10	5000614	67,058	5	5000632	85,668	5
90	5000595	47,161	10	5000615	69,324	5	5000633	89,043	5
100	5000596	51,426	10	5000616	74,283	5	5000634	95,969	5
110	5000597	56,785	5	5000617	80,160	5	5000635	102,702	5
120	5000598	59,832	10	5000618	85,300	5	5000636	109,031	5
125	5000599	62,179	5	5000619	87,526	5	5000637	112,461	5
130	5000600	62,512	5	5000620	90,274	5	5000638	115,358	5
140	5000601	66,983	5	5000621	93,990	5	5000639	121,686	5
150	5000602	75,616	5	5000622	98,055	5	5000640	128,019	3
160	5000603	77,273	5	5000623	103,056	5	5000641	134,346	3
170	5000604	80,621	5	5000624	108,053	5	5000642	140,675	3
180	5000605	85,096	5	5000625	113,054	5	5000643	147,002	3
200	5000606	92,559	5	5000626	123,050	5	5000644	159,658	5
220	5001675	100,471	5	5001681	132,448	4	5001687	172,929	3
230	5001676	104,402	5	5001682	138,150	4	5001688	179,529	3
250	5001677	113,630	5	5001683	148,088	4	5001689	192,728	3
270	5001678	120,740	4	5001684	157,889	3	5001690	205,931	3
280	5001679	133,648	4	5001685	162,923	3	5001691	212,528	2
300	5001680	139,617	4	5001686	172,725	3	5001692	225,729	2

1. Specification : DIN 933.
2. Property Class : A4 - 70.
3. Material : AISI 316.
4. GST 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		67	500	9000
M4	5001320		90	500	9000
M5	5001321		110	500	9000
M6	5001322		171	500	9000
M8	5001323		348	200	2400
M10	5001324	5001334	747	200	2400
M12	5001325	5001335	1,137	200	1600
M14	5001326	5001336	2,106	200	800
M16	5001327		2,325	100	800
M18	5001328		4,646	100	600
M20	5001329		4,557	50	300
M22	5001330	5001337	7,632	50	200
M24	5001331		7,830	50	200
M27	5001332		17,485	25	150
M30	5001333		24,350	25	150

S.S. 316 A4 Hex Nut					
Size	Part No. ISO	Part No. DIN	₹ Price/ 100 Pcs	Pcs/ Box	Pcs/ Carton
M3	5001338		123	500	9000
M4	5001339		157	500	9000
M5	5001340		187	500	9000
M6	5001341		244	500	9000
M8	5001342		480	200	2400
M10	5001343	5001352	1,033	200	2400
M12	5001344	5001353	1,574	200	1600
M14	5001345	5001354	3,184	200	800
M16	5001346		3,219	100	800
M18	5001347		6,627	100	600
M20	5001348		6,312	50	300
M24	5001349		10,847	50	200
M27	5001350		24,227	25	150
M30	5001351		33,738	25	150

1. Specification : DIN 934. 2. Property Class : A2-70 / A4-80. 3. Material : AISI 304 / 316. 4. GST 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.



Nylock Nut - 982

Size	S.S. 304 (A2-70)		S.S. 316 (A4-80)		Box	Carton
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs		
M3	5010914	180	5010918	271	2000	32000
M4	5010915	198	5010919	298	1000	18000
M5	5010916	254	5010920	382	700	12600
M6	5010317	364	5010323	547	500	9000
M8	5010318	685	5010324	1,028	200	2400
M10	5010319	1,244	5010325	1,867	200	2400
M12	5010320	2,056	5010326	3,084	200	2400
M16	5010321	4,138	5010327	6,208	100	800
M20	5010322	9,802	5010328	14,703	50	300
M24	5010917	22,374	5010921	33,562	50	200

1. Specification : DIN 982. 2. Property Class: A2-70 / A4-80.
3. Material: AISI 304 / 316. 4. GST extra as applicable.
5. All Cold Forged. 6. Marking: UNBRAKO A2-70 / UNBRAKO A4-80

Nylock Nut - 985 (ISO 10511)

Size	S.S. 304 (A2-70)		S.S. 316 (A4-80)		Box	Carton
	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs		
M3	5010922	171	5010925	258	2000	32000
M4	5010923	188	5010926	282	1000	18000
M5	5010924	242	5010927	363	700	12600
M6	5009853	346	5009859	520	500	9000
M8	5009854	651	5009860	977	200	2400
M10	5009855	1,182	5009861	1,773	200	2400
M12	5009856	1,953	5009862	2,930	200	2400
M16	5009857	3,931	5009863	5,897	100	800
M20	5009858	9,312	5009864	13,968	50	300
M24	5009899	21,255	5009900	31,883	50	200

1. Specification : DIN 985. 2. Property Class: A2-70 / A4-80.
3. Material: AISI 304 / 316. 4. GST extra as applicable.
5. All Cold Forged. 6. Marking: UNBRAKO A2-70 / UNBRAKO A4-80



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	48	2000	140000
M4	5001387	52	2000	120000
M5	5001388	58	2000	60000
M6	5001389	85	1000	32000
M8	5001390	120	1000	14000
M10	5001391	188	500	7000
M12	5001392	284	500	5000
M14	5001393	476	200	3200
M16	5001394	664	100	3000
M18	5001395	771	100	1800
M20	5001396	1,133	100	1400
M22	5001397	1,312	50	800
M24	5001398	2,071	50	700
M27	5001399	2,270	50	700
M30	5001400	3,503	50	500
M33	5001401	5,167	25	200
M36	5001402	5,561	25	350

SQUARE SECTION A2 S.S. 304				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001403	52	2000	160000
M4	5001404	58	2000	90000
M5	5001405	65	2000	48000
M6	5001406	45	1000	30000
M8	5001407	88	1000	24000
M10	5001408	165	500	12000
M12	5001409	188	500	7000
M14	5001410	328	200	4800
M16	5001411	486	100	3000
M18	5001412	571	100	2400
M20	5001413	1,010	100	1500
M22	5001414	1,178	50	1000
M24	5001415	1,565	50	1200
M27	5001416	1,781	50	700
M30	5001417	2,766	50	500
M33	5001418	3,133	25	400
M36	5001419	4,697	25	350

FLAT SECTION A4 S.S. 316				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001420	65	2000	140000
M4	5001421	68	2000	120000
M5	5001422	83	2000	60000
M6	5001423	116	1000	32000
M8	5001424	160	1000	14000
M10	5001425	256	500	7000
M12	5001426	388	500	5000
M14	5001427	647	200	3200
M16	5001428	904	100	3000
M18	5001429	1,047	100	1800
M20	5001430	1,541	100	1400
M22	5001431	1,783	50	800
M24	5001432	2,818	50	700
M27	5001433	3,084	50	700
M30	5001434	4,762	50	500
M33	5001435	7,029	25	200
M36	5001436	7,563	25	350

SQUARE SECTION A4 S.S. 316				
Size	Part No.	₹ Price/ 100 Pcs	Pcs./Box	Pcs./Carton
M3	5001437	68	2000	160000
M4	5001438	80	2000	90000
M5	5001439	85	2000	48000
M6	5001440	62	1000	30000
M8	5001441	123	1000	24000
M10	5001442	223	500	12000
M12	5001443	256	500	7000
M14	5001444	448	200	4800
M16	5001445	664	100	3000
M18	5001446	777	100	2400
M20	5001447	1,373	100	1500
M22	5001448	1,598	50	1000
M24	5001449	2,129	50	1200
M27	5001450	2,425	50	700
M30	5001451	3,767	50	500
M33	5001452	4,259	25	400
M36	5001453	6,388	25	350

1. **Specification** : DIN 127 / IS 3063, DIN 7980 / IS 6735.
2. **Property Class** : A2/A4.
3. **Material** : AISI 304 / 316.
4. GST extra as applicable.
5. All Cold Forged.



Plain Washer

Metric S.S. 304/316

S.S. 304 A2 Plain Washer				
Size	Part No.	₹ Price/100 Pcs	Pcs./Box	Pcs./Carton
M3	5003131	61	2000	140000
M4	5003132	100	2000	120000
M5	5003133	58	2000	60000
M6	5001355	78	1000	32000
M8	5001356	137	1000	14000
M10	5001357	276	500	7000
M12	5001358	501	500	5000
M14	5001359	754	200	3200
M16	5009943	861	100	3000
M18	5001361	1,254	100	1800
M20	5001362	1,389	100	1400
M22	5001363	1,631	50	800
M24	5001364	2,932	50	700
M27	5001365	4,217	50	700
M30	5001366	5,158	50	500
M33	5001367	6,926	25	200
M36	5001368	9,109	25	350

S.S. 316 A4 Plain Washer				
Size	Part No.	₹ Price/100 Pcs	Pcs./Box	Pcs./Carton
M3	5001369	92	2000	140000
M4	5001370	150	2000	120000
M5	5001371	87	2000	60000
M6	5001372	109	1000	32000
M8	5001373	190	1000	14000
M10	5001374	386	500	7000
M12	5001375	701	500	5000
M14	5001376	1,055	200	3200
M16	5001377	1,205	100	3000
M18	5001378	1,757	100	1800
M20	5001379	1,945	100	1400
M22	5001380	2,284	50	800
M24	5001381	4,105	50	700
M27	5001382	5,904	50	700
M30	5001383	7,221	50	500
M33	5001384	9,696	25	200
M36	5001385	12,752	25	350

1. Specification : DIN 125, ISO 7089. 2. Property Class : A2 / A4. 3. Material : AISI 304 / 316.
4. GST extra as applicable. 5. All Cold Forged. 6. Marking : UNBRAKO A2 / UNBRAKO A4.



Threaded Rod

Metric S.S. 304/316

Threaded Rod A2 S.S. 304		
Size	Part No.	₹ Price/100 Pcs
6 X 1 METER	5001454	12,300
8 X 1 METER	5001455	20,600
10 X 1 METER	5001456	32,500
12 X 1 METER	5001457	47,200
16 X 1 METER	5001458	86,600
20 X 1 METER	5001459	1,35,300
24 X 1 METER	5001460	1,94,900
27 X 1 METER	5001461	2,45,800
30 X 1 METER	5001462	3,08,800

Threaded Rod A4 S.S. 316		
Size	Part No.	₹ Price/100 Pcs
6 X 1 METER	5001463	16,900
8 X 1 METER	5001464	28,100
10 X 1 METER	5001465	44,500
12 X 1 METER	5001466	64,600
16 X 1 METER	5001467	1,18,600
20 X 1 METER	5001468	1,85,500
24 X 1 METER	5001469	2,67,200
27 X 1 METER	5001470	3,37,100

1. Specification : DIN 975.
2. Property Class : A2 / A4.
3. Material : AISI 304 / 316.
4. GST extra as applicable.
5. All Cold Forged Fully Threaded.
6. Price per meter.
7. Marking : UNBRAKO A2 / UNBRAKO A4.

Petrochemical

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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	
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
60	350001	3,534	350013	6,802						
70	350002	3,876	350014	7,368	350033	10,334				
80	350003	4,184	350015	7,933	350034	11,081	350055	14,185		
90	350004	4,485	350016	8,509	350035	11,826	350056	15,051	350078	19,863
100	350005	4,794	350017	9,158	350036	12,563	350057	16,011	350079	20,600
110	350006	5,094	350018	9,682	350037	13,258	350058	16,877	350080	21,080
120	350007	5,403	350019	10,292	350038	14,005	350059	17,761	350081	22,212
130	350008	5,755	350020	10,857	350039	14,710	350060	18,670	350082	23,302
140	350009	6,191	350021	11,434	350040	15,446	350061	19,588	350083	24,391
150	350010	6,501	350022	11,997	350041	16,099	350062	20,470	350084	25,524
160	350011	6,802	350023	12,691	350042	16,835	350063	21,381	350085	26,621
170	350012	7,153	350024	13,258	350043	17,546	350064	22,298	350086	27,711
180			350025	13,867	350044	18,284	350065	22,830	350087	28,850
190			350026	14,443	350045	18,979	350066	23,739	350088	29,853
200			350027	15,051	350046	19,717	350067	24,657	350089	30,977
210			350028	15,618	350047	20,420	350068	25,532	350090	32,076
220			350029	16,184	350048	21,123	350069	26,448	350091	33,209
230			350030	16,791	350049	21,859	350070	27,315	350092	34,304
240			350031	17,367	350050	22,556	350071	28,234	350093	35,438
250			350032	17,933	350051	23,302	350072	29,149	350094	36,527
260					350052	24,004	350073	30,025	350095	37,667
270					350053	24,699	350074	30,933	350096	38,756
280					350054	25,437	350075	31,860	350097	39,897
290							350076	32,728	350098	40,986
300							350077	33,643	350099	42,111
320									350100	44,341

- 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, L43, B16, B8, B8M. 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** Yellow Zinc Cr6+, Xylan® PTFE, 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	22,006								
100	350102	23,654								
110	350103	25,393	350126	34,914						
120	350104	26,269	350127	36,963	350151	46,697				
130	350105	27,581	350128	38,670	350152	48,438	350180	61,406		
140	350106	28,892	350129	40,326	350153	50,625	350181	63,978	350208	80,616
150	350107	30,196	350130	42,024	350154	52,812	350182	66,723	350209	83,703
160	350108	31,511	350131	43,676	350155	54,991	350183	69,295	350210	86,792
170	350109	32,821	350132	45,386	350156	56,731	350184	71,869	350211	89,877
180	350110	34,081	350133	47,134	350157	58,918	350185	74,613	350212	92,966
190	350111	35,393	350134	48,885	350158	61,105	350186	76,671	350213	95,539
200	350112	36,655	350135	50,625	350159	62,854	350187	79,414	350214	98,626
210	350113	38,576	350136	52,374	350160	65,033	350188	81,988	350215	101,712
220	350114	39,897	350137	54,116	350161	67,210	350189	84,731	350216	104,817
230	350115	41,199	350138	55,428	350162	69,398	350190	87,647	350217	107,974
240	350116	42,503	350139	57,134	350163	71,584	350191	90,908	350218	110,460
250	350117	43,815	350140	58,832	350164	75,077	350192	93,309	350219	113,547
260	350118	45,127	350141	60,496	350165	77,254	350193	96,053	350220	116,635
270	350119	46,440	350142	62,196	350166	79,433	350194	97,768	350221	119,551
280	350120	47,743	350143	63,858	350167	81,586	350195	100,342	350222	122,640
290	350121	49,057	350144	65,505	350168	83,807	350196	102,914	350223	127,098
300	350122	50,231	350145	67,210	350169	85,548	350197	105,142	350224	130,014
320	350123	52,941	350146	70,574	350170	89,912	350198	110,289	350225	136,188
340	350124	55,557	350147	73,935	350171	93,841	350199	115,606	350226	142,364
360	350125	58,180	350148	77,307	350172	97,768	350200	120,409	350227	148,539
380			350149	80,659	350173	102,132	350201	125,724	350228	154,371
400			350150	84,021	350174	106,070	350202	130,528	350229	160,202
420					350175	109,989	350203	135,846	350230	166,377
440					350176	114,355	350204	140,650	350231	172,038
460					350177	118,282	350205	145,795	350232	178,383
480					350178	122,648	350206	150,598	350233	184,388
500					350179	126,584	350207	156,086	350234	190,390

- 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, L43, B16, B8, B8M. 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 Yellow Zinc Cr6+, Xylan® PTFE, 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	103,427										
160	350236	106,859	350261	131,902								
170	350237	110,633	350262	136,188	350286	165,160						
180	350238	113,891	350263	140,650	350287	169,817	350310	203,942				
190	350239	117,321	350264	144,937	350288	174,764	350311	209,601	350333	247,508		
200	350240	121,266	350265	149,396	350289	179,585	350312	215,262	350334	253,853		
210	350241	124,698	350266	153,685	350290	184,730	350313	221,093	350335	260,201	350355	302,223
220	350242	128,299	350267	158,160	350291	189,276	350314	226,582	350336	267,576	350356	309,601
230	350243	131,902	350268	162,364	350292	194,901	350315	232,413	350337	273,751	350357	317,317
240	350244	135,331	350269	166,737	350293	199,652	350316	238,074	350338	280,783	350358	324,522
250	350245	139,277	350270	170,675	350294	204,455	350317	243,734	350339	287,473	350359	332,070
260	350246	142,706	350271	174,954	350295	209,601	350318	249,567	350340	294,334	350360	339,616
270	350247	146,309	350272	179,413	350296	214,746	350319	255,227	350341	300,851	350361	346,648
280	350248	149,740	350273	183,889	350297	220,408	350320	260,886	350342	307,885	350362	354,196
290	350249	157,287	350274	188,169	350298	225,554	350321	266,635	350343	314,573	350363	361,914
300	350250	160,717	350275	192,466	350299	231,556	350322	272,208	350344	321,433	350364	369,117
320	350251	165,864	350276	201,213	350300	241,676	350323	283,356	350345	335,155	350365	383,526
340	350252	172,724	350277	209,601	350301	248,880	350324	295,363	350346	347,334	350366	398,618
360	350253	179,413	350278	216,119	350302	258,657	350325	306,683	350347	361,229	350367	413,370
380	350254	186,961	350279	222,638	350303	268,606	350326	318,003	350348	374,606	350368	428,293
400	350255	193,821	350280	230,871	350304	275,294	350327	329,325	350349	388,156	350369	443,216
420	350256	200,682	350281	239,275	350305	284,042	350328	340,815	350350	393,302	350370	457,623
440	350257	207,886	350282	247,164	350306	292,790	350329	352,136	350351	406,510	350371	472,375
460	350258	214,746	350283	255,570	350307	301,537	350330	363,629	350352	419,546	350372	487,468
480	350259	221,780	350284	263,836	350308	310,457	350331	374,951	350353	432,581	350373	502,221
500	350260	229,841	350285	272,320	350309	319,034	350332	386,270	350354	445,961	350374	516,970

- 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, L43, B16, B8, B8M. 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** Yellow Zinc Cr6+, Xylan® PTFE, 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	4,718								
2 3/4	550310	5,060	550322	8,643						
3	550311	5,413	550323	9,176	550338	14,159				
3 1/2	550312	5,755	550324	9,700	550339	14,982	550353	21,834		
4	550313	6,107	550325	10,224	550340	15,824	550354	22,983	550368	31,372
4 1/2	550314	6,460	550326	10,745	550341	16,655	550355	24,116	550369	32,847
4 3/4	550315	6,809	550327	11,270	550342	17,461	550356	25,257	550370	34,338
5	550316	7,161	550328	11,793	550343	18,303	550357	26,406	550371	35,848
5 1/2	550317	7,504	550329	12,325	550344	19,126	550358	27,530	550372	37,341
6	550318	7,856	550330	12,839	550345	19,964	550359	28,644	550373	38,799
6 1/2	550319	8,558	550331	14,116	550346	21,629	550360	30,874	550374	41,766
7	550320	8,911	550332	14,639	550347	22,195	550361	32,076	550375	43,259
7 1/2	550321	9,254	550333	15,208	550348	23,019	550362	32,933	550376	44,974
8			550334	16,296	550349	24,595	550363	35,162	550377	47,203
8 1/2			550335	16,869	550350	25,386	550364	36,311	550378	48,935
9			550336	17,391	550351	26,218	550365	37,393	550379	50,686
9 1/2			550337	17,968	550352	26,998	550366	38,509	550380	51,544
10							550367	40,737	550381	54,631
10 1/2									550382	55,950
11									550383	57,700
11 1/2									550384	59,004

- 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, L43, B16, B8, B8M. 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** Yellow Zinc Cr6+, Xylan® PTFE, 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	44,579						
4 3/4	550386	46,310	550406	59,862				
5	550387	48,508	550407	62,075				
5 1/2	550388	50,291	550408	64,254	550429	102,148		
6	550389	51,970	550409	66,894	550430	105,487	550458	126,070
6 1/2	550390	55,917	550410	71,696	550431	112,501	550459	134,217
7	550391	57,700	550411	73,876	550432	116,000	550460	138,247
7 1/2	550392	59,415	550412	76,071	550433	120,066	550461	142,364
8	550393	63,378	550413	80,873	550434	126,928	550462	150,426
8 1/2	550394	65,129	550414	83,515	550435	130,358	550463	154,371
9	550395	66,894	550415	85,247	550436	133,788	550464	158,831
9 1/2	550396	69,073	550416	87,871	550437	137,647	550465	162,947
10	550397	72,589	550417	92,691	550438	144,679	550466	170,665
10 1/2	550398	74,732	550418	94,870	550439	148,111	550467	174,954
11	550399	76,482	550419	97,442	550440	150,580	550468	178,728
11 1/2	550400	78,214	550420	99,671	550441	152,656	550469	182,844
12	550401	82,178	550421	104,286	550442	159,516	550470	191,592
12 1/2	550402	83,900	550422	106,687	550443	162,947	550471	195,709
13	550403	85,926	550423	109,072	550444	166,377	550472	200,339
13 1/2	550404	89,860	550424	113,891	550445	173,409	550473	208,057
14	550405	91,782	550425	116,293	550446	177,098	550474	212,689
14 1/2			550426	118,695	550447	180,529	550475	216,805
15			550427	121,095	550448	183,958	550476	221,093
15 1/2			550428	125,897	550449	190,820	550477	228,812
16					550450	194,163	550478	233,100
16 1/2					550451	197,595	550479	237,045
17					550452	200,853	550480	241,162
17 1/2					550453	207,886	550481	249,567
18					550454	211,660	550482	253,853
18 1/2					550455	215,262	550483	257,627
19					550456	222,123	550484	266,203
19 1/2					550457	225,554	550485	270,321
20							550486	274,437
20 1/2							550487	278,553
21							550488	286,445
22							550489	295,019

- 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, L43, B16, B8, B8M. 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 Yellow Zinc Cr6+, Xylan® PTFE, 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	162,947	550521	190,905				
7	550491	168,093	550522	196,137				
7 1/2	550492	172,724	550523	202,037				
8	550493	182,328	550524	213,202				
8 1/2	550494	186,961	550525	218,607	550554	259,000		
9	550495	192,105	550526	224,267	550555	265,003	550585	354,368
9 1/2	550496	196,909	550527	229,841	550556	271,520	550586	362,600
10	550497	206,858	550528	240,732	550557	284,386	550587	379,066
10 1/2	550498	211,660	550529	246,307	550558	290,904	550588	387,642
11	550499	216,548	550530	251,453	550559	296,906	550589	395,875
11 1/2	550500	221,275	550531	257,285	550560	303,596	550590	404,110
12	550501	231,204	550532	268,262	550561	316,376	550591	420,746
12 1/2	550502	235,846	550533	273,751	550562	322,893	550592	428,980
13	550503	240,818	550534	282,242	550563	329,325	550593	437,384
13 1/2	550504	250,081	550535	290,732	550564	341,673	550594	454,021
14	550505	254,807	550536	296,512	550565	348,192	550595	462,685
14 1/2	550506	259,548	550537	301,881	550566	354,368	550596	470,658
15	550507	264,403	550538	307,026	550567	360,884	550597	478,892
15 1/2	550508	273,964	550539	319,375	550568	373,920	550598	492,271
16	550509	278,759	550540	324,693	550569	380,096	550599	500,333
16 1/2	550510	283,579	550541	330,183	550570	386,270	550600	508,739
17	550511	288,673	550542	335,671	550571	392,788	550601	516,627
17 1/2	550512	297,635	550543	346,819	550572	405,223	550602	533,437
18	550513	301,588	550544	352,481	550573	411,655	550603	541,499
18 1/2	550514	307,284	550545	358,141	550574	418,003	550604	549,559
19	550515	317,952	550546	369,117	550575	430,522	550605	566,026
19 1/2	550516	322,634	550547	374,778	550576	437,040	550606	574,020
20	550517	327,575	550548	380,782	550577	442,701	550607	581,977
20 1/2	550518	332,156	550549	386,270	550578	449,390	550608	590,210
21	550519	341,845	550550	397,077	550579	462,254	550609	606,849
22	550520	351,484	550551	408,569	550580	475,461	550610	622,970
23			550552	425,377	550581	494,157	550611	640,982
24			550553	436,354	550582	507,194	550612	664,052
25					550583	526,576	550613	687,978
26					550584	538,583	550614	704,445
27							550615	728,973

- 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, L43, B16, B8, B8M. 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** Yellow Zinc Cr6+, Xylan® PTFE, 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	1,175	200
M16	270001	1,897	150
M18	270002	2,830	100
M20	270003	3,671	75
M22	270004	4,493	50
M24	270005	6,293	50
M27	270006	9,429	25
M30	270007	13,284	25
M33	270008	17,097	20
M36	270009	23,412	10
M39	270010	29,867	10
M42	270011	38,827	8
M45	270012	47,635	5
M48	270013	58,119	5
M52	270014	72,412	4
M56	270015	84,304	4

Inch			
Size	Part No.	₹ Price/100 Pcs	Box Quantity
1/2"	470001	1,361	200
5/8"	470002	2,462	125
3/4"	470003	4,012	75
7/8"	470004	6,160	50
1"	470005	8,810	30
1 1/8"	470006	12,276	25
1 1/4"	470007	17,002	15
1 3/8"	470008	22,058	15
1 1/2"	470009	28,343	10
1 5/8"	470010	35,062	8
1 3/4"	470011	44,152	6
1 7/8"	470012	52,167	6
2"	470013	106,717	5

- 1. Nut Specification :** Generally conforming to ASTM A194 / Grade 2H
- 2. Note :** Prices for ASTM Grade B7M, L7, L7M, L43, B16, B8, B8M. Check availability in stock at the time of order.
- 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** Yellow Zinc Cr6+, Xylan® PTFE, 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. .

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. The products listed in this Pricelist might not be stocked at DFL at all times and customers are advised to enquire the availability of the same. E. & O.E.

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	PRODUCT		Marking
Socket Head Cap Screw	Metric : M4 to M42		Nylock Nut M6 to M24 Grade : 8 and 10		
	Inch : 1/4" to 1" BSW			Hardened Washer (Type A) M16 to M36	
Socket Countersunk Cap Screw M5 & M24			High Strength Structural Bolt M16 to M36		
Socket Low Head Cap Screw M5 to M20				High Strength Structural Nut M16 to M36	
Socket Head Shoulder Screw M6 to M24			High Strength Structural Washer 		
Button Head Socket Screw M5 to M12			Track Shoe Bolt and Square Nut Metric : M16 to M27 Inch : 5/8" to 1"		
Flange Button Head Socket Screw M5 to M10					
Hexagon Wrench Set	Metric : 4 A/F to 32 A/F		Direct Tension Indicator Washer M16 to M27 		
	Inch : 5/32" A/F to 3/4" A/F		XX-Size		
Durlok Bolt & Nut M6 to M20			Stainless Steel Socket Head Cap Screw M5 to M30 		
Hex Head Bolt/Screw	Metric : M5 to M48		Stainless Steel Hex Head Bolt/Screws M5 to M30 SS-304/316 		
	Inch : All Sizes		Stainless Steel Hex Nut M5 to M30 SS-304/316 		
Hex Nut	Metric : M6 to M72, Inch : 1/4" to 1 1/2" Grade 8 - UNC		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 it's quality, grade and and specification, but also by it's surface finish. Choosing the correct coating for the application will prevent corrosion, enhance aesthetic value and add strength to the fastener, extending it's 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	HOT-DIP GALVANISATION	METALLIC COATING ZINC FLAKE	PTFE
Type of material		All metals	Steels	All metals	All metals
Process temperature		Bath temp. 90°C max. Baking temp. 200°C max.	460°C - 550°C	Bath temp. 20°C max. Baking temp. 300°C max.	Bath temp. 30°C max. Baking temp. 300°C max.
Maximum service temperature without damage of coating		70°C max.	300°C max.	300°C max.	300°C max.
Usual thickness		3 µm to 15 µm	min. Individual - 43µm min. Average - 54µm	min. 5 µm max. Subject to required SST Life	15 µm min.
Average Friction Coefficient	without lubrication	0.16 - 0.22	Seizure risks when bolt stress is >40% YS	0.12 - 0.25	0.08 - 0.16
	with lubrication	0.08 - 0.12	0.10 - 0.16	0.08 - 0.16	no additional lubrication required
Salt spray test (red corrosion)		Zinc 5 to 7µm : 48 h min. Zinc chromating 5 to 7 µm : 96 h min. Reinforced chromating : 200 h min.	70µm : 400 h min.	min. 5 µm : 480h min. min. 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
Aspect		Bright	Matt or glossy	Matt aluminum	Matt Blue

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



Products are manufactured to meet these standards.

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