

 **PRICE
LIST**

DFL-21, w.e.f. 1st Oct, 2026

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13	Socket Screws
33	Durlok
37	Hex Bolt, Nut & Washer
53	Construction
67	Petrochemical



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 given for Unbrako products which are plated by users or by outside platers, 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 - 5% 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

ISO 9001 **IATF 16949** **ISO 14001** **ISO 45001**



15048
14399



15048
14399



ISO/IEC
17025



International Certifications

Our production facilities are ISO 9001, IATF 16949, ISO 14001 and ISO 45001:2018 Certified. Our fasteners meet or exceed International Standards like DIN, ISO, ASTM, IS, BS, BIS 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.



Unbrako Wiscoat
Corrosion Protection System



GEOMET®



Limited Warranty and Exclusive Remedy



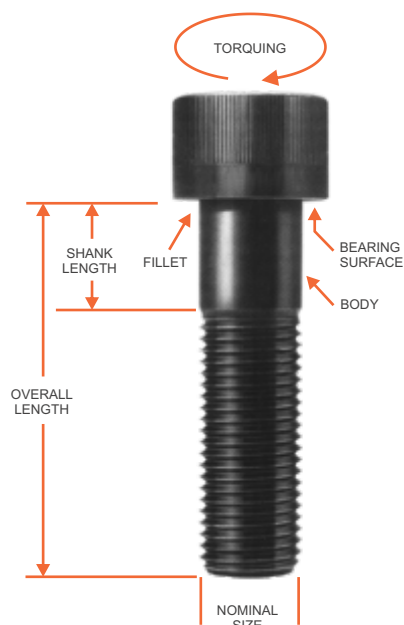
Deepak Fasteners Ltd., through its Unbrako Division and associated companies, warrants that these products conform to industry standards specified herein and will be free from defects in materials and workmanship. This warranty is expressly given in lieu of any and all other express or implied warranties,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

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 extreme end of the 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.

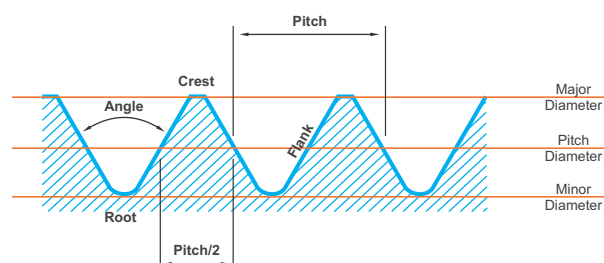
SHANK

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

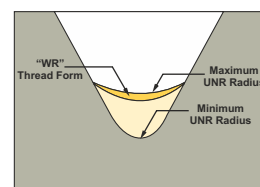
The distance from a point on a screw thread to the corresponding point on the next screw thread.

PITCH DIAMETER

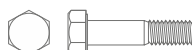
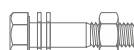
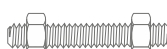
Is the diameter of a theoretical cylinder that passes through the threads at a position that the width of thread ridge and thread groove are equal.

ROOT

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



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 mm to 300 mm	3/16" to 10"	2269	4762	912	4168 2470	B18.3.1M	B1176
Socket Countersunk Head Screws		160000	1,050 (012.9)	M3 to M24	3/16" to 5/16"	6 mm to 60 mm	3/8" to 1 1/4"	6761	10642	7991	4168 2470	B18.3.5M	–
Socket Low Head Cap Screws		–	010.9	M4 to M20	–	10 mm to 100 mm	–	As Per Unbrako Specification					
Socket Set Screws Knurled Cup		Hardness HRc 45 Minimum		M3 to M20	1/8" to 3/4"	3 mm to 85 mm	3/16" to 3"	6094	4026 4027 4028 4029	913 914 915 916	4168 2470	B18.3.6 M	B1177
Socket Button Head Cap Screws		–	1,050 (012.9)	M3 to M12	–	6 mm to 50 mm	–	–	7380	9427	4168	B18.3.4M	–
Hex Wrenches		Hardness HRc 47 Minimum		1.5 mm to 32 mm	1/16" to 3/4"	–	–	3082	2936	911	4168 2470	B18.3.2M	B4648
Durlok Bolt			1220 N/mm ² min. (12.9)	M6 to M20	–	12 mm to 100 mm	–	As Per Unbrako Specification					
Hex Head Bolts		Grade R,S V	1,040 (10.9)	M4 to M48	1/4" to 2"	10 mm to 300 mm	1/2" to 12"	1364	4014 4017	931 933	1083 1768	B18.2.1	B1180
Hex Nuts		Nut (mm) Grade 8/10	Nut (in) Grade 5/8	M6 to M72	1/4" to 1-1/2"	–	–	1364	4032	934	1083 1768	B18.2.4.1M B18.2.2	B1181
Lock Nuts (Thin Nut)		Nut (mm) Grade 04 / 05		M10 to M24				1364 P4	4035				
Nylock Nut		Nut Grade 8/10	–	M6 to M24				7002	7040	982 985			
Spring Washer Flat & Square Type				M3 to M39				3063 6735		127B 7980	4464 --		
High Strength Structural Bolts, Nuts & Washers		Bolts 8.8S/10.9S Nuts 8S/10S	–	M16 to M30	–	40 mm to 300 mm	–	3757 6623 6649	7412 4775 7415	6914 6915 6916	4395	B18.2.3.7M B18.2.4.6M	B1186
Tension Control Structural Bolt		Grade 10.9 HRc		M12 to M36							BS EN 14399-10		
Stud with 2 Heavy Hex Nuts		Stud B7 Nut 2H	–	M12 to M56	1/2" to 2-1/4"	60 mm to 500 mm	2 1/4" to 27"					ASTM A193 A194	

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

**Thread type in NPTF

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

Special Products available on request (MOQ basis)

Plating: No guarantee can be given for Unbrako products which have been plated by 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		Major Dia	SIZE	T.P.I.		Major Dia	SIZE	T.P.I.		Major Dia	T.P.I.	Major Dia
	COARSE	FINE			BSW	BSF			BA	inch			
	PITCH (mm)	PITCH (mm)	mm		UNC	UNF	inch		inch	BA	inch		
M3	0.50	-	3.00	#5	40	44	0.125	1/8	40	-	0.125		
				#6	32	40	0.138	5 BA 4 BA				43.1 38.5	0.126 0.142
M4	0.70	-	4.00	#8	32	36	0.164	3 BA	24	32	0.187	34.8	0.161
M5	0.80	-	5.00	#10	24	32	0.190	3/16					
								2 BA 1 BA				31.3 28.2	0.185 0.209
M6	1.0	-	6.00	1/4	20	28	0.250	1/4 0 BA	20	26	0.250	25.4	0.236
M8	1.25	1.00	8.00	5/16	18	24	0.313	5/16	18	22	0.313		
M10	1.50	1.25	10.00	3/8	16	24	0.375	3/8	16	20	0.375		
								7/16	14	18	0.438		
M12	1.75	1.25	12.00	1/2	13	20	0.500	1/2	12	16	0.500		
(M14)	2.00	1.50	14.00										
M16	2.00	1.50	16.00	5/8	11	18	0.625	5/8	11	14	0.625		
(M18)	2.50	1.50	18.00										
M20	2.50	1.50	20.00	3/4	10	16	0.750	3/4	10	12	0.750		
(M22)	2.50	1.50	22.00	7/8	9	14	0.875	7/8	9	11	0.875		
M24	3.00	2.00	24.00	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	2.00	27.00										
M30	3.50	2.00	30.00	1-1/4	7	12	1.250	1-1/4	7	9	1.250		
(M33)	3.50	2.00	33.00	1-1/2	6	12	1.500	1-1/2	6	8	1.500		
M36	4.00	3.00	36.00										
(M39)	4.00	3.00	39.00										
M42	4.50	3.00	42.00										
M45	4.50	3.00	45.00										
M48	5.00	3.00	48.00										
M52	5.00	3.00	52.00										
M56	5.50	3.00	56.00										

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.

Torque Values (Coarse Pitch - Metric)

RECOMMENDED TORQUE VALUES FOR 10.9 & 12.9 GRADE METRIC ALLOY STEEL FASTENERS FOR BLACK OXIDE/NON COATED

Grade	10.9		12.9	
Nominal Diameter (mm)	Induced Load KN	Seating Torque NM	Induced Load KN	Seating Torque NM
M3 x 0.5	3.1	1.9	3.7	2
M3.5 x 0.6	4.2	3	4.9	3
M4 x 0.7	5.5	4	6.4	5
M5 x 0.8	8.8	9	10.3	10
M6 x 1	12.5	15	14.6	18
M8 x 1.25	22.8	36	26.6	43
M10 x 1.5	36.1	72	42.2	84
M12 x 1.75	52.5	126	61.3	147
M14 x 2	71.6	200	83.7	234
M16 x 2	97.7	313	114.2	365
M18	119.5	430	139.7	503
M20 x 2.5	152.5	610	178.2	713
M22	188.6	830	220.4	970
M24 x 3	219.7	1055	256.8	1233
M27	285.7	1543	333.9	1803
M30 x 3.5	349.2	2095	408.1	2449
M33	432.0	2851	504.9	3332
M36 x 4	508.6	3662	594.4	4279
M39	607.6	4739	710.0	5538
M42	697.9	5862	815.6	6851
M45	813.1	7318	950.2	8552
M48	917.1	8805	1071.8	10290
M52	1094.4	11382	1279.0	13301

NOTE:

The recommended seating torque listed in the above table serve as guidelines only.

Even when using the recommended seating torques, the induced loads obtained may vary upto $\pm 25\%$ due to lubrication, surface finish and thread condition.

The values of Torque have been derived from the empirical formula.

Torque (T) = $K \times D \times P$ for reference only should be calculated with actual conditions of assembly Where,

K=Nut factor or friction factor for calculation taken as 0.20 for Blk/Non coated fasteners.

P=Induced Load or Clamp Load or Pre-Tension which is 75% of Proof Load.

D=Nominal Diameter of the Bolt.

Socket Screws

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



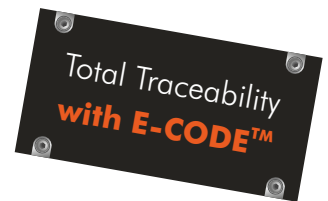
Unbrako Socket Range

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



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

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

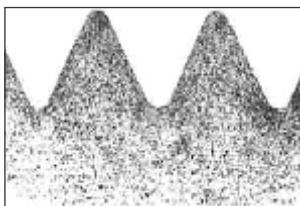
Patented E-Code™ "Lot Code" Markings
The ultimate in fastener traceability

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.

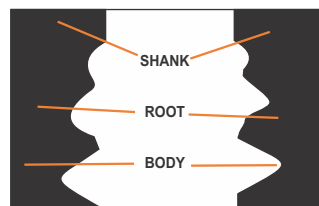
Contour flow & root radius



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.

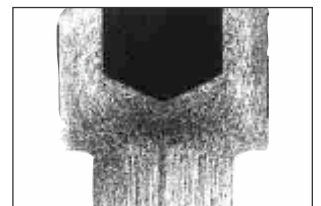
The sharp angle at the root of conventional threads results in high stress concentration and crack initiation points.

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	M2 Wrench Key Size 1.5mm			M2.5 Wrench Key Size 2mm			M3 Wrench Key Size 2.5mm		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
3	104151	1,882	500						
4	104152	844	500						
5	104154	858	500	104161	814	500	106218	1,329	500
6	104155	876	500	104162	844	500	103002	1,143	500
8	104157	888	500	104163	867	500	122097	836	500
10	104159	905	500	104164	888	500	113583	698	500
12	106216	933	500	104166	980	500	120870	698	500
16							103003	696	500
20							113623	696	500
25							103010	764	500
30							103013	894	500
35							106219	1,119	500
40							406027	1,279	500
45							700034	1,416	500

Diameter	M4 Wrench Key Size 3mm			M5 Wrench Key Size 4mm			M6 Wrench Key Size 5mm		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
6	106223	1,080	500	106224	925	500			
8	113810	763	500	122122	788	500	103042	1,080	200
10	113839	608	500	122243	436	500	122111	715	200
12	121077	547	500	121094	436	500	120872	679	200
16	103014	571	500	103024	476	500	103044	644	200
20	125753	612	500	113970	511	200	119790	717	200
25	125381	672	500	121096	547	200	119937	803	200
30	103018	796	500	103029	664	200	122121	907	200
35	103019	872	200	115292	730	200	121090	995	200
40	103021	962	200	103030	796	200	121075	1,080	200
45	103022	1,099	200	103031	862	200	122087	1,170	200
50	103023	1,261	200	103035	872	200	112624	1,275	200
55	400835	2,026	200	103038	1,492	200	113128	1,388	200
60	180011	2,586	200	103040	1,913	200	122088	2,568	200
65	551167	3,350	200	106225	2,073	200	103047	2,663	200
70				106228	2,231	200	103048	2,778	200
75				700072	2,717	200	103049	3,037	200
80				404774	2,870	200	103051	3,292	200
90				181525	3,168	200	103052	3,535	200
100				551170	4,271	200	103053	3,991	200
110							103054	5,286	100
120							103055	5,893	100
130							183896	6,357	100
140							700097	6,824	100
150							551172	7,255	100

*Note: "X" marking on SHCS is the internal coding for product traceability, it can be changed with any alphanumeric.
All Products of sizes smaller than M5 or 1/4" have no head marking due to space constraint

Grey highlighted items are full threaded



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	1,418	200									
12	114972	1,077	200	106237	1,631	200						
16	103058	897	200	103080	1,508	200	106247	4,435	100			
20	122086	966	200	113163	1,379	200	112607	3,955	100			
25	119351	990	200	115060	1,527	100	122250	3,442	100	400528	9,026	50
30	119383	1,152	200	122114	1,637	100	122251	3,302	100	400529	9,026	50
35	122113	1,187	200	113257	1,767	100	125530	3,461	100	400530	7,592	50
40	113143	1,359	200	100845	1,990	100	114996	3,394	100	400531	7,769	50
45	121076	1,523	200	121088	2,184	100	115075	3,612	50	400532	7,904	50
50	121068	1,580	200	125660	2,376	100	112360	3,528	50	120863	8,093	50
55	103063	1,737	100	103087	2,568	100	122255	3,898	50	400533	8,187	50
60	121070	1,865	100	122217	2,768	100	122260	4,119	50	112000	8,689	50
65	103064	1,991	100	103088	2,957	100	122261	4,337	50	400534	8,806	50
70	103066	2,130	100	125786	3,149	50	103098	4,570	50	400535	9,503	50
75	103069	2,246	100	103090	3,353	50	103099	4,773	50	400536	10,034	50
80	103070	3,380	100	103091	4,867	50	103100	5,715	50	400537	10,524	20
90	103073	3,902	100	103094	5,540	50	103103	6,456	50	400538	10,760	20
100	103075	4,636	100	103095	6,515	50	122142	7,474	50	400539	13,332	25
110	103076	5,782	100	103096	7,684	50	125791	8,964	25	400540	14,493	25
120	103077	6,749	50	103097	7,777	50	103104	10,319	25	400508	15,662	25
130	106230	8,294	50	106240	10,700	50	103107	12,534	25	180223	18,140	25
140	106231	8,908	50	106241	11,962	50	103108	13,960	25	180103	19,414	25
150	106232	9,626	50	106242	13,288	50	103110	15,402	25	180225	20,693	25
160	106233	10,940	100	106243	18,214	50	107456	25,377	25	180226	22,431	10
170	700125	11,810	100	210001	20,083	50	181063	27,913	20	210002	24,497	10
180	106234	12,450	100	106244	20,490	25	107458	27,913	20	180227	25,939	10
200	106235	13,757	100	106245	21,902	25	107459	30,203	20	551663	29,276	10
220				400517	28,138	25	400570	34,841	20	791320	32,205	10
230							183555	43,635	20	791321	33,504	10
240							400571	52,308	20	791322	34,969	10
260				809653	28,904	20	400572	59,774	20	791323	37,572	10
280				811605	31,264	20	400573	62,625	20	791324	40,500	10

Grey highlighted items are full threaded

1. Specifications : Generally conforming to IS 2269, DIN 912, ISO 4762.
2. Threads : ISO Metric (Coarse Series) 5g6g 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 be given for Unbrako products which are plated by users or by outside platers, 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.

*Note : "X" marking on SHCS is the internal coding for product traceability, it can be changed with any alphanumeric.

All Products of sizes smaller than M5 or 1/4" have no head marking due to space constraint

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



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		
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
20	210003	8,796	50									
25	106248	8,731	50				210006	21,461	25			
30	103112	8,731	50	183894	23,608	20	107465	21,391	10			
35	103113	7,166	50	400541	23,915	20	107466	21,672	10			
40	125751	7,349	50	400542	20,930	20	103130	18,434	10	180408	27,881	10
45	103115	7,655	50	400606	21,076	25	103131	19,082	10	180409	29,499	10
50	112474	7,629	25	100844	21,254	10	103132	18,293	10	180181	24,699	10
55	103117	7,993	25	400543	21,390	10	103136	18,829	10	180182	27,760	10
60	112594	8,205	25	400544	21,549	10	103137	18,542	10	180183	28,545	10
65	103118	8,578	20	400545	21,737	25	103138	19,144	10	180184	31,789	10
70	103119	9,255	20	400546	23,218	10	103141	21,040	10	180185	30,845	10
75	103120	9,792	20	400547	24,722	10	103142	21,777	10	210007	36,090	10
80	125658	10,241	20	400549	25,206	10	103143	21,705	10	180186	36,090	10
90	103122	10,471	10	400550	25,708	10	103144	22,643	10	180187	37,842	10
100	103123	12,996	10	400551	26,959	10	103145	24,407	10	180188	39,912	10
110	103124	14,116	20	400548	29,837	25	103146	27,015	10	180189	43,382	10
120	103126	15,256	20	400552	32,680	15	103148	29,623	10	180190	46,890	5
130	103127	17,662	20	180311	35,553	10	103150	32,196	10	180191	61,650	5
140	103128	18,906	20	180229	38,395	10	103151	34,782	10	180192	72,031	5
150	103129	20,145	20	180407	41,239	10	103152	37,499	10	180193	96,023	5
160	103364	40,089	10	180230	46,752	10	107462	48,065	10	180194	1,21,023	5
170	180418	44,638	10	210005	55,364	10	180495	54,884	10	791330	1,25,645	5
180	107460	44,638	10	100231	57,508	10	107463	54,884	10	180196	1,33,113	5
200	107448	49,332	10	551668	59,957	10	107464	57,232	10	180198	1,42,472	5
220	400574	51,598	10	791325	76,651	10	400553	62,338	10	210008	1,52,290	5
230	182815	53,881	10	791326	80,603	10	181001	79,093	5	791331	1,58,846	5
240	400575	53,881	10	791327	83,763	10	400554	97,698	5	210009	1,68,977	5
260	400576	56,152	10	791328	90,085	10	400555	1,19,847	5	210010	1,81,400	5
280	400577	58,423	10	551667	96,407	10	400556	1,41,974	5	210011	1,88,558	5
300	400578	60,712	10	791329	1,02,729	10	400557	1,52,115	5	210012	2,02,030	5
340							796973	1,67,934	5			

Grey highlighted items are full threaded

1. Specifications : Generally conforming to IS 2269, DIN 912, ISO 4762.
2. Threads : ISO Metric (coarse series) 5g6g 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 on application.
7. 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.
8. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

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Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



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	23,543	10						
50	103155	22,552	10				551648	54,946	5
55	103157	25,366	10						
60	103158	26,073	10	180233	48,360	5	180207	49,558	5
65	103159	28,927	10	581201	51,364	5	210014	49,217	5
70	103160	29,571	10	180326	52,457	5	116464	53,822	5
75	103161	31,335	10	210013	55,123	5	182283	53,822	5
80	103162	32,940	10	406161	55,951	5	140610	55,951	5
90	103163	34,550	10	406162	61,425	5	140611	60,161	5
100	103165	36,438	10	406163	65,667	5	140612	65,667	5
110	103166	39,623	10	406164	69,630	5	140613	69,630	5
120	103167	42,826	10	400607	73,878	5	140614	73,878	5
130	103168	46,024	5	406165	74,599	5	140615	79,051	5
140	103170	49,209	5	406166	82,083	5	140616	82,083	5
150	103171	52,423	5	400608	87,256	5	140617	87,256	5
160	104143	85,098	5	400609	1,37,410	5	140618	1,37,410	4
170				406167	1,45,226	5			
180	104146	91,050	5	406168	1,51,991	5	140620	1,51,991	4
200	104147	97,462	5	400579	1,65,363	5	140621	1,65,363	5
220	400560	1,04,299	5	180003	2,06,089	4	400622	2,05,176	3
240	400561	1,12,580	5	406171	2,28,270	4	400623	2,20,678	3
260	400562	1,17,493	5	406172	2,48,645	3	140624	2,36,174	2
280	400563	1,22,404	5	406173	2,65,338	3	140625	2,51,676	2
300	400564	1,31,151	5	406174	2,82,056	3	400626	2,67,168	2
310	818254	1,25,260	5						
320	400565	1,28,935	5				180848	2,81,675	2
340	400566	1,36,287	5						
370							818243	3,20,635	2
380							182648	3,27,768	2
400	786983	1,85,595	3				183066	3,42,060	2

- Specifications : Generally conforming to IS 2269, DIN 912, ISO 4762.
- Threads : ISO Metric (coarse series) 5g6g 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 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.

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Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Socket Head Cap Screw - Metric

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	80,880	5						
80	180254	84,218	5	140629	1,00,635	5			
90	400649	91,210	5	140630	1,09,738	5	182336	1,64,049	5
100	400628	95,468	5	140631	1,12,871	5	400645	1,79,716	12
110	180255	1,00,635	5	400632	1,19,001	4	700380	1,84,600	12
120	180256	1,09,738	5	140633	1,24,142	4	183113	2,00,748	10
130	405492	1,14,910	5	400634	1,28,278	4	182331	2,05,064	10
140	180257	1,22,207	4	140635	1,41,595	3	700383	2,21,885	9
150	180258	1,28,278	4	140636	1,46,700	3	180960	2,26,539	9
160	180259	1,70,525	4	140637	1,97,422	3	181289	3,16,829	9
180	180261	1,88,765	3	140639	2,20,582	3	182059	3,36,259	8
200	180263	2,05,176	3	140640	2,39,051	2	181290	3,64,293	7
220	210016	2,54,407	3	180294	2,95,567	2	400647	4,57,020	7
240	210017	2,74,163	3	140641	3,03,696	2	182510	4,76,383	6
260	210018	2,86,622	2	140642	3,25,249	9	700390	5,08,122	6
280	210019	3,02,424	2	180411	3,46,871	8	181291	5,39,887	6
300	210020	3,26,127	2	140643	3,68,675	8	180863	5,71,645	6
320				180490	4,06,987	8			
340				181287	4,28,766	8	700394	5,98,911	5
360				183067	4,50,545	8	700395	6,28,857	5
380				183068	4,72,322	5	700396	6,58,803	3
400				400644	4,94,101	5	700397	6,88,748	3
420				796957	5,80,365	5			
460				796960	6,29,368	5			
480				796961	6,53,867	3			
500				551866	6,78,369	3			
520				796963	7,02,870	3			
560				796965	7,51,872	3			
580				796966	7,76,372	2			
650				796968	8,62,125	2			

- Specifications : Generally conforming to IS 2269, DIN 912, ISO 4762.
- Threads : ISO Metric (coarse series) 5g6g 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 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.

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Socket Head Cap Screw - Metric (FULL THREAD)

Diameter	M6 Wrench Key Size 5mm		M8 Wrench Key Size 6mm		M10 Wrench Key Size 8mm		M12 Wrench Key Size 10mm		M16 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
40	400590	1,080	400593	1,359						
45	834560	1,170	551840	1,523						
50	400591	1,275	400594	1,580	400597	2,376				
60	400592	2,568	400595	1,865	400598	2,768	551829	4,119		
65									834594	8,578
70	834588	2,778	406180	2,130	400599	3,149	629982	4,570	809216	9,255
75									834595	9,792
80			406181	3,380	400600	4,867	834591	5,715	551837	10,241
90					834589	5,540	834592	6,456	616459	10,471
100					834590	6,515	834593	7,474	834596	12,996
110									834597	14,116
120									834598	15,256



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	633	200	400068	765	200						
1/2	400057	633	200	400069	744	200	400085	1,087	200	400101	1,661	200
5/8	400058	559	200	400070	727	200	400086	926	200	400102	1,613	200
3/4	400059	633	200	400071	765	200	400087	993	200	400103	1,384	200
7/8	551219	673	200	400072	791	200	400088	1,008	200	400104	1,579	200
1	400061	709	200	400073	857	200	400089	1,077	200	400105	1,535	200
1 1/4	400062	784	200	400074	941	200	400090	1,235	200	400106	1,683	100
1 1/2	400063	894	200	400075	1,080	200	400091	1,383	200	400107	1,873	100
1 3/4	400064	1,019	200	400076	1,323	200	400092	1,634	200	400108	2,240	50
2	400065	1,019	200	400077	1,288	200	400093	1,634	200	400109	2,325	100
2 1/4	210021	1,204	200	400078	2,608	200	400094	1,962	200	400110	2,686	100
2 1/2	400066	1,341	200	400079	2,684	200	400095	1,962	100	400111	2,885	100
2 3/4				400080	3,138	200	404433	2,394	100	400112	3,228	100
3				400081	3,138	200	400096	2,327	100	400113	3,228	100
3 1/4				400082	3,765	200	701026	3,997	100	400114	4,726	50
3 1/2				400083	3,660	200	400098	3,997	100	400115	4,841	50
4				400084	4,146	100	400099	4,744	100	400116	5,682	50
4 1/2							400100	7,650	100	400117	8,612	50
5							701030	8,622	100	400118	10,219	50
5 1/2										400181	12,281	50
6										400119	13,000	50

Grey highlighted items are full threaded



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	3,846	100	400130	4,234	100			
7/8	791967	3,846	100	402942	4,234	100	210033	8,303	50
1	400121	3,721	100	400131	3,597	100	400150	8,078	50
1 1/4	400122	3,721	100	400132	3,771	100	400151	7,020	50
1 1/2	400123	3,793	100	400133	3,837	50	400152	7,266	50
1 3/4	400124	4,056	100	400134	4,098	50	400153	7,730	50
2	400125	4,056	100	400135	4,190	50	400154	8,095	20
2 1/4	210025	4,661	50	400136	4,833	50	400155	8,796	20
2 1/2	701059	4,883	50	400137	4,833	50	400156	9,043	20
2 3/4	210026	5,257	50	400138	5,440	50	400157	9,657	20
3	400127	5,360	20	400139	5,525	50	400158	9,927	20
3 1/4	210027	7,128	50	400140	7,272	50	701096	11,093	10
3 1/2	400128	6,934	50	400141	7,272	20	400159	11,220	10
4	400129	8,030	20	400142	8,549	25	400160	13,751	10
4 1/2	210028	11,541	50	400143	10,334	25	400161	14,193	15
5	210029	11,533	25	400144	12,722	25	400162	15,654	15
5 1/2	210030	13,510	50	400145	14,006	20	400163	19,983	20
6	210031	13,525	25	400146	14,498	20	400164	21,776	20
6 1/2				400147	28,766	20	400165	44,997	10
7				400148	29,342	15	400166	46,251	10
7 1/2				210032	30,492	15	210035	48,025	10
8				400149	32,661	25	400167	49,625	10
8 1/2							210036	66,749	10
9							210037	65,071	10
10							210038	85,146	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 be given for Unbrako products which are plated by users or by outside platers, 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.

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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	20,722	50						
1 1/4	400168	20,160	10						
1 1/2	400169	17,779	10	400187	28,633	10	210054	26,840	15
1 3/4	400170	18,184	10	210043	30,596	10	210055	27,894	15
2	400171	18,694	10	400188	29,764	10	400194	28,428	10
2 1/4	400172	19,097	10	404637	32,958	10	404571	31,502	10
2 1/2	400173	19,097	10	400189	32,063	10	400195	31,502	10
2 3/4	400174	21,142	10	210044	37,063	10	210056	35,480	10
3	400175	21,734	10	400190	36,128	10	400196	34,516	10
3 1/4	400176	22,581	10	701133	40,957	10	210057	38,060	10
3 1/2	400177	21,966	10	400191	39,845	10	400197	38,060	10
4	400178	23,675	10	400192	42,039	10	400198	42,042	5
4 1/2	400179	28,000	10	701136	49,432	10	400199	47,096	5
5	400180	30,422	10	701137	54,588	10	400200	52,168	5
5 1/2	701121	34,603	10	210047	56,836	10	183785	54,302	5
6	400182	37,980	10	400193	62,226	10	400201	60,600	5
6 1/2	400183	48,550	10	210048	1,08,032	5	210059	99,700	5
7	400184	49,675	10	701139	1,08,032	5	400202	1,03,284	5
7 1/2	210040	52,223	10	210050	1,11,937	5	210060	1,06,978	5
8	400185	51,831	10	210051	1,11,258	5	400203	1,10,563	5
8 1/2	210041	61,822	10	210052	1,20,693	5	210061	1,20,905	5
9	400186	61,822	10	210053	1,20,693	5	210062	1,24,386	5
10	701127	68,692	5	551078	1,37,348	5	210063	1,38,206	5

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 be given for Unbrako products which are plated by users or by outside platers, 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.

*Note : "X" marking on SHCS is the internal coding for product traceability, it can be changed with any alphanumeric.

All Products of sizes smaller than M5 or 1/4" have no head marking due to space constraint



Countersunk Socket Head Cap Screws (CSK) - Metric

Diameter	M3 Wrench Key Size 2mm		M4 Wrench Key Size 2.5mm		M5 Wrench Key Size 3mm		M6 Wrench Key Size 4mm		M8 Wrench Key Size 5mm	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
6	106283	1,074								
8	103303	1,260	103309	688	103318	1,006	103325	787		
10	103304	1,346	103311	688	103319	562	103328	794		
12	103305	1,444	103312	584	103320	584	103329	682	103337	1,035
14					401676	759	401678	844		
16	103306	1,639	103313	785	103321	785	103330	849	103338	1,005
18			401675	798	401677	794	401679	899	401681	1,019
20	103308	1,833	103315	809	103322	802	103331	914	103340	1,079
25	106284	2,017	103316	985	103323	943	103332	1,058	103341	1,238
30	106285	2,122	103317	1,185	103324	1,185	103333	1,217	103342	1,415
35			220001	2,444	106289	1,574	103334	1,382	103343	1,609
40			220002	2,622	220005	2,444	103335	1,626	103344	1,888
45			220003	2,968	220006	2,785	220008	2,896	106297	2,119
50			220004	3,326	220007	3,109	220009	3,624	220011	3,320
55							220010	3,985	220012	3,966
60									220013	4,324
70									106301	5,404
Qty. Per Box	200									

Diameter	M10 Wrench Key Size 6mm		M12 Wrench Key Size 8mm		M16 Wrench Key Size 10mm		M20 Wrench Key Size 12mm		M24 Wrench Key Size 14mm	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
12	103345	1,770								
16	103347	1,682								
20	103348	1,445	103353	3,261						
25	103349	1,671	103354	3,050						
30	103350	1,915	103355	3,477	103359	5,932				
35	103351	2,190	103356	3,774	103360	6,392	106328	12,440		
40	103352	2,509	103357	4,070	103361	6,830	106332	10,792		
45	106302	2,834	106311	4,606	106318	7,294	106334	11,565		
50	106303	3,180	103358	5,025	103362	7,760	106335	12,756	220032	26,188
55	106304	3,607	106312	5,645	106320	8,193	106336	13,671	220033	28,384
60	220014	3,991	106313	6,083	103363	8,657	106337	15,050	401689	30,576
65	220015	4,684	220020	6,846	183908	9,522	183912	16,258	220034	32,770
70	220016	5,046	220021	7,371	106321	10,010	106338	17,324	401690	34,966
75	220017	6,486	220022	7,928	220025	10,502	183913	18,390	220035	37,160
80	220018	6,919	220023	8,534	220026	11,031	106339	19,456	401691	39,353
90	220019	7,785	551715	10,094	106325	12,507	106341	20,522	401692	43,744
100					629621	15,125	106342	24,785	401693	49,742
110							220029	28,782	701356	55,738
120							220030	31,558	183179	61,738
130							220031	34,333	701358	67,736
Qty. Per Box	100		50		10		5			

1. Note : All sizes are fully threaded. 2. Specifications : Generally conforming to IS 6761, ISO 10642, DIN 7991.

3. Threads : ISO Metric, 5g6g 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	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
8	106250	1,201	106262	1,228	106263	1,276		
10	106251	952	103500	849	103508	850		
12	106255	860	103501	860	103509	853	103519	1,107
15			400790	790	400792	1,166	400791	1,357
16	106256	903	103502	790	103511	822	103520	995
20	106257	963	103597	849	103512	898	103521	1,033
25	106260	995	103503	908	103515	995	103525	1,114
30	406185	1,750	103505	1,050	103516	1,117	103526	1,254
35					103517	1,223	103528	1,359
40					103518	1,823	103529	1,463
45					106264	2,023		
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		
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	103532	1,532	200									
20	103533	1,353	200	103549	3,767	100						
25	103534	1,497	200	103550	3,342	100						
30	103535	1,677	200	103551	3,221	100	103562	6,618	25			
35	103536	1,775	200	103552	3,257	100	103563	7,113	25			
40	103538	1,914	100	103553	3,281	50	103564	6,989	25	103578	16,648	25
45	106271	3,257	100				106277	6,618	25			
50	103541	3,538	100	103554	3,537	50	103565	7,531	25	103580	19,564	25
55	106272	3,832	100									
60				103555	5,112	50	103566	11,044	25	103581	22,481	25
90							103574	15,748	25			
100							103575	16,955	25	103599	34,876	25

Grey highlighted items are full threaded

1. Specifications : Generally conforming to Unbrako Specification DIN 7984 + 6912 (Except for Head & Socket Dims), ASME B18.3.1M
2. Threads : ISO Metric (Coarse Series) 5g6g.
3. Mechanical Properties : Property Class 10.9 as per IS 1367, ISO 898 Part I.
4. For sizes beyond those listed, prices on request.
5. 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.
7. 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		
	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	5,037	50									
12	105365	5,464	50	105375	5,028	50						
15	401484	6,312	50	401486	6,318	50	401487	7,696	50	401485	16,709	25
16	105366	6,312	50	105377	6,482	50	105388	7,916	50	105404	10,287	25
20	105368	7,159	50	105379	7,275	50	105390	8,793	50	105406	11,319	25
25	105370	8,219	50	105380	8,269	50	105392	9,897	50	105407	12,614	25
30	105372	9,281	50	105381	9,266	50	105393	10,994	50	105410	13,909	25
40	105373	10,946	50	105383	11,256	50	105394	13,190	50	105411	16,499	25
50				105386	12,359	50	105395	13,852	50	105412	18,450	25
60							105396	14,641	50	105416	20,952	25
70							105402	16,492	50	105417	22,261	25
80							106422	18,322	50	105420	23,275	25
90										105427	23,553	25
100										105433	27,763	25

Diameter	M16 (M12) Wrench Key Size 8mm			M20 (M16) Wrench Key Size 10mm			M24 (M20) Wrench Key Size 12mm		
	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
30	105434	21,402	25						
40	105435	25,165	25	105441	58,710	10			
50	105436	28,927	25	105442	66,405	10	401488	2,03,060	5
60	105437	32,686	25	105444	74,098	10	401489	2,22,176	5
70	105438	36,449	25	105448	81,794	10	401490	2,41,290	5
80	105440	38,867	25	105449	89,487	10	401491	2,60,412	5
90	106343	40,306	25	105450	97,184	10	401492	2,79,524	5
100	106344	47,731	25	106347	1,04,875	10	401493	2,98,640	5
120	106346	73,668	25	106348	1,20,264	10	401494	3,36,875	5

1. Specifications : Generally conforming to BS 4168, DIN 9841, ISO 7379.
2. Thread Class : 5g6g (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 be given for Unbrako products which are plated by users or by outside platers, 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	
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
3	104076	423								
4	103172	418	103182	351	809760	244				
5	103175	423	103185	351	103194	244				
6	103176	418	103186	355	103195	247	103207	259	180002	529
8	103177	424	103187	380	103196	247	103208	281	103224	325
10	103178	448	103188	374	103197	270	103209	289	103227	346
12	103179	475	103189	428	103198	324	103211	363	103228	394
16	103180	507	103191	507	103199	346	103212	406	103229	480
20	551093	657	103193	710	103202	464	103214	500	103230	621
25	551678	827	701961	769	103203	607	103217	622	103231	941
30			406498	1,402	103204	728	103218	771	103235	1,138
35			551679	1,863	181179	1,142	103219	1,312	103236	1,571
40			551680	2,398	551094	1,429	103220	1,484	103237	1,834
45							103221	1,639	701998	2,125
50							103222	1,928	103240	2,415
55									551095	3,775
60									551096	4,595
65									551097	4,767
Qty. Per Box	200									

1. Specification : Generally conforming to the following standards
2. Threads : ISO Metric, 5g6g 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 (MOQ applicable).
6. 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.
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.

Standard				
	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	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
8	180099	679						
10	103241	509	551687	1,000				
12	103244	593	103256	840				
16	103245	790	103258	1,206	106352	2,789		
20	103246	974	103259	1,274	103274	3,137	104149	7,534
25	103247	1,426	103260	1,747	103276	3,835	103286	8,724
30	103249	1,758	103261	2,072	103277	4,392	103287	10,086
35	103251	2,132	103262	2,742	103278	5,281	103288	11,500
40	103252	2,429	103263	3,470	103279	6,080	103289	12,391
45	103253	2,773	103269	4,271	103281	7,503	103290	17,911
50	103254	3,222	103270	4,678	103282	8,514	103292	19,524
55	551098	4,776	103271	8,048	103283	11,430	103293	21,823
60	183091	6,276	103272	7,202	103284	11,956	103294	23,189
65	551099	6,555	551100	10,460	551102	17,432	551105	26,133
70			551101	12,145	182790	24,404	551106	27,588
75					551103	27,305	551107	29,993
80					551104	27,891	793979	33,206
Qty. Per Box	100				50			

1. Specifications : Generally conforming to the following standards

//// Quantity per box 200

2. Threads : ISO Metric, 5g6g 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 (MOQ applicable).

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

7. 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.

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.

Standard				
	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 Wrench Key Size 3/32"		1/4 Wrench Key Size 1/8"		5/16 Wrench Key Size 5/32"		3/8 Wrench Key Size 3/16"	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
3/16	400949	264						
1/4	400951	258	400961	306				
5/16	400952	271	400963	322	400986	322		
3/8	400953	280	400965	338	400977	338	400988	452
1/2	400954	321	400967	344	400978	409	400989	535
5/8	551209	362	400969	448	400979	435	400990	631
3/4	400956	445	400970	680	400980	570	400991	941
1	400957	630	400972	663	400982	799	400993	1,255
1 1/4			400973	771	400984	941	400994	1,369
1 1/2			400974	1,306	400983	1,913	400995	2,719
1 3/4			551108	1,953	551109	2,044	400996	2,928
2			180730	1,746	400985	2,418	400997	3,459
Qty. Per Box	200						100	

Diameter	1/2 Wrench Key Size 1/4"		5/8 Wrench Key Size 5/16"		3/4 Wrench Key Size 3/8"	
Length	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs	Part No.	₹ Price/ 100 Pcs
1/2	401003	902				
5/8	401005	1,012	401015	2,389		
3/4	401006	1,430	401016	2,462	401024	5,455
1	401008	2,248	401017	2,842	401025	6,568
1 1/4	401009	2,201	401018	4,391	551110	8,093
1 1/2	401010	5,111	401019	6,925	401026	11,253
1 3/4	401012	6,655	401020	9,337	401027	13,249
2	401013	7,280	401021	8,490	401028	15,587
2 1/2	401014	9,167	401022	12,371	401029	19,082
3	702408	11,240	401023	17,748	401030	27,165
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 (MOQ applicable).
6. Socket set screws with BSF/UNC/UNF threads can also be manufactured subject to MOQ. Price on request.
7. Bold black lines are used to indicate quantity per box.
8. 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.
9. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



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		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
5	180248	929	200									
6	106353	929	200	180200	671	200	180398	1,221	200			
8	106354	753	200	106360	671	200	180175	1,164	200	180249	1,420	200
10	106357	864	200	106361	671	200	106365	671	200	106372	882	200
12	106358	960	200	106363	736	200	106366	736	200	106373	721	200
15				401218	896	200	401219	864	200	401222	1,025	200
16	106359	1,216	200	106364	868	200	106367	864	200	106374	1,025	200
18							406269	1,889	200	401223	1,025	200
20							106368	966	200	106375	1,105	200
22							401220	2,209	200			
25							106369	1,130	200	106376	1,152	200
30							106370	1,363	200	106378	1,202	200

Diameter	M8 Wrench Key Size 5mm			M10 Wrench Key Size 6mm			M12 Wrench Key Size 8mm		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	106379	1,474	200						
12	106380	1,249	200						
15	401226	1,280	200						
16	106382	1,067	200	106392	2,033	200	106403	4,322	100
20	106384	1,312	200	106393	1,670	200	106404	4,642	100
25	106385	1,537	200	106396	1,930	200	106405	4,835	100
30	106386	1,760	200	106399	2,203	200	106406	5,410	100
35	106389	1,993	200	106401	2,514	200	106407	5,987	100
40	106390	2,271	200	106402	2,786	100	106408	6,561	50
50							106413	7,716	50

1. Specifications : Generally conforming to BS 4168.
2. Thread : ISO Metric (Coarse Series) 5g6g.
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 be given for Unbrako products which are plated by users or by outside platers, 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.

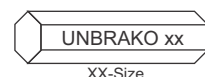


Flange Button Head Socket Screws - Metric

M3 Wrench Key Size 2mm				M4 Wrench Key Size 2.5mm			M5 Wrench Key Size 3mm		
Diameter	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
Length									
6	404977	1,581	200						
8				404982	1,393	200			
10				404983	1,618	200	404988	1,440	200
12				404984	1,793	200	404989	1,567	200
16				404986	2,070	200	404991	1,889	200
20							404992	1,986	200
25							404994	2,114	200

M6 Wrench Key Size 4mm				M8 Wrench Key Size 5mm			M10 Wrench Key Size 6mm		
Diameter	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
Length									
10	180079	2,066	200	405005	4,388	200			
12	404997	2,032	200	405007	1,986	200			
16	404999	2,384	200	405009	2,305	200	405016	4,002	200
20	405001	2,726	200	405011	2,594	200	405017	4,483	200
25	405003	3,155	200	405012	2,994	200	405018	5,090	200
30	405004	3,586	200	405013	3,395	200	405019	5,714	200
40				405015	4,162	200			

1. Specification : Generally conforming to Unbrako specification.
2. Thread : ISO Metric (Coarse Series) 5g6g.
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 be given for Unbrako products which are plated by users or by outside platers, 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.



XX-Size

Marking*

Hexagon Wrenches

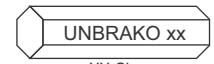
Wrench Size (Across Flat)	Part No.	₹ Price/ 100 Pcs	Box Qty	Wrench Size (Across Flat)	Part No.	₹ Price/ 100 Pcs	Box Qty
1.5	125648	1,371	100	1/16	108468	1,371	100
2	122263	1,371	100	5/64	110164	1,512	100
2.5	122270	1,371	100	3/32	110180	1,512	100
3	121093	1,512	100	1/8	110213	1,512	100
4	119953	2,373	100	5/32	110246	1,791	100
5	122245	2,895	100	3/16	115915	2,321	100
6	121066	4,123	50	7/32	115948	3,155	50
8	115557	7,763	50	1/4	115981	4,570	50
10	120859	12,956	25	5/16	115997	7,592	25
12	120806	24,373	25	3/8	116013	11,230	25
14	111100	35,850	25	1/2	116046	25,911	10
17	138487	56,699	10	9/16	116063	33,153	10
19	111133	78,242	10	5/8	116080	48,409	10
22	402603	1,23,320	5	3/4	116096	78,279	10
24	402604	1,65,806	5				
27	402605	2,79,136	2				
32	402606	4,90,892	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	42,568	40
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	44,654	40

1. Specifications :

- A. Inch Series : BS 2470 B. Metric Series : IS 3082, DIN 911 and ISO 2936.
2. Material : UNBRAKO high grade alloy steel.
3. Mechanical Properties : Hardness : HRC 47 (Min).
4. 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.
5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



XX-Size

Marking*

Ballpoint Hexagon Wrenches

Wrench Size (Across Flat)	Part No.	₹ Price/ 100 Pcs	Box Qty	Wrench Size (Across Flat)	Part No.	₹ Price/ 100 Pcs	Box Qty
1.5	835663	4,800	200	1/16"	835672	4,800	300
2	835664	5,100	200	5/64"	835673	5,100	200
2.5	835665	5,600	200	3/32"	835674	5,600	200
3	835666	6,400	200	1/8"	835675	6,400	200
4	835667	6,800	200	5/32"	835676	6,800	100
5	835668	8,000	150	3/16"	835677	8,000	150
6	835669	8,700	80	7/32"	835678	8,000	100
8	835670	12,600	50	1/4"	835679	8,800	100
10	835671	18,800	40	5/16"	835680	12,700	50
				3/8"	835681	18,800	40

Ballpoint Hexagon 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	836741	81,500	16 Sets
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	836740	89,500	16 Sets

Specifications :

- Material: UNBRAKO high grade alloy steel.
- Mechanical Properties: Hardness : HRC 57-62
- Prices are excluding of all taxes.



DON'T RISK IT - JUST FIX IT

Unbrako Shield Self Drilling Screws

Unbrako RustGuard Coating
(Min 1000 hrs salt spray life)

ElectroZinc Coating
(Min 96 hrs salt spray life)



Unbrako
RustGuard
Coating



Dowel Pins

Metric

Diameter	M2			M3		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
8	407831	1,108	40			
10	407832	1,123	40	115001	1,277	40
12	407833	1,138	40	115002	1,292	40
14						
16	407835	1,165	40	115003	1,347	40
18	407836	1,165	40	402118	1,376	40
20	407837	1,179	40	115004	1,388	40
28				402120	1,545	40
30				115007	1,614	40
32				402121	1,684	40
36				406345	1,825	40
40				402124	1,965	40

Diameter	M4			M5		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
10	115010	1,418	40	402133	1,487	40
12	115011	1,460	40	115021	1,530	40
14				402134	1,573	40
16	115012	1,545	40	115022	1,614	40
20	115015	1,614	40	115024	1,712	40
24	407127	1,698	40	407128	1,796	40
28	402128	1,825	40	402137	1,950	40
30	115017	1,910	40	115026	2,049	40
32				402138	2,134	40
36				406347	2,315	40
40				115028	2,499	40
50	402132	2,792	40	115031	3,005	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 be given for Unbrako products which are plated by users or by outside platers, 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	1,867	40						
16	115032	1,993	40						
18	402143	2,049	40						
20	115034	2,119	40	115049	2,976	40	115063	4,099	40
24	115037	2,244	40	406349	3,200	40	406351	4,450	40
28	402145	2,428	40	402150	3,479	40			
30	115038	2,542	40	115053	3,649	40	115066	5,109	40
32	402146	2,653	40	402151	3,804	40			
36	406348	2,877	40	406350	4,127	40	406352	5,810	40
40	115043	3,103	40	115055	4,436	40	115070	6,288	40
45				115056	4,899	40	115071	6,962	40
50	115046	3,705	40	115057	5,306	40	402161	7,564	40
55				402153	5,727	40			
60	115047	4,266	40	115058	6,133	40	402163	8,787	40
70							402164	10,007	40
90							402167	12,463	40
100							402169	13,712	40

Diameter	M12			M16		
Length	Part No.	₹ Price/ 100 Pcs	Box Qty	Part No.	₹ Price/ 100 Pcs	Box Qty
24	406353	5,670	40			
30	402174	6,555	40			
32				406218	12,802	20
36	406354	7,495	40			
40	402178	8,126	40	406220	15,355	20
50	402180	9,796	40			
60	402182	11,411	40			
70	402183	13,024	40	406225	25,319	20
80	402184	14,638	40	406226	28,631	20
90				406227	31,973	20
100	402186	17,922	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.

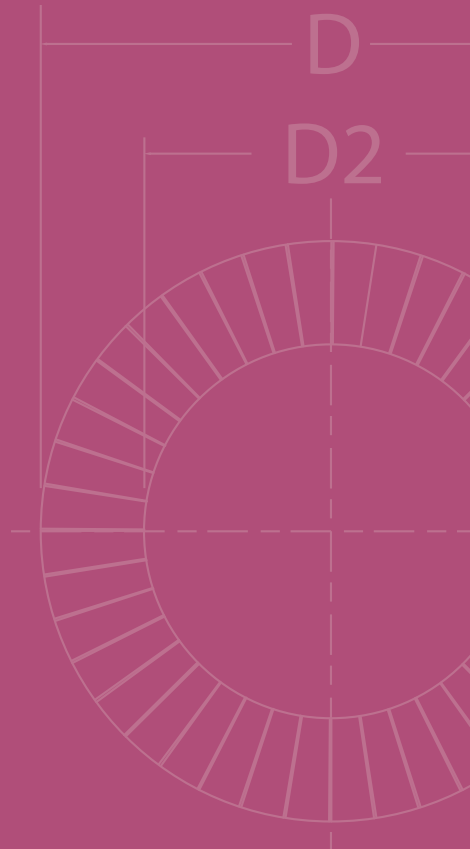
CAUTION: Unbrako advise that correct tools should be used for the application.

Safety goggles should be worn for your security and protection.

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

Durlok

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36	Durlok® Nuts
36	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.



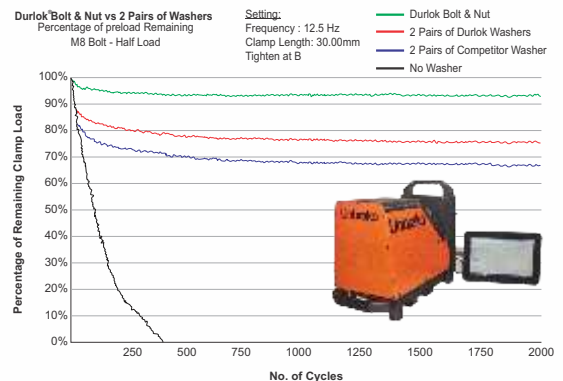
Advantages

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 - Metric

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

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	3,507	200	190570	3,599	200						
16	190560	2,682	200	190590	3,171	200	190620	4,193	200			
20	190160	2,958	200	190210	3,431	200	190270	3,277	200	183640	6,037	100
25	190170	3,294	200	190220	3,782	200	190280	3,568	200	190320	6,189	100
30	190180	3,628	200	190230	4,116	200	190290	3,888	200	190330	6,249	100
35				190600	4,481	200	190630	4,848	200	190660	6,405	100
40				190240	4,817	200	190300	5,215	100	190340	6,892	50
45				408127	5,640	200	190640	5,580	100	190670	7,348	50
50				190610	6,037	100	190310	5,946	100	190350	7,805	50
55										190680	8,263	50
60				407393	6,777	200				190360	9,177	50
70										190700	10,154	50
80										190710	11,099	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	11,983	25						
30	190370	12,501	25	190410	26,771	25			
35	190740	13,264	25	190420	26,771	25			
40	190380	13,416	25	190430	26,771	25	190875	44,212	25
45	190750	13,812	25	190820	21,007	25	405793	38,876	25
50	190760	14,635	25	190440	21,587	25			
55				405105	22,716	25			
60	190770	15,733	25	190450	24,301	25	190885	43,602	25
70				190460	26,586	25	190890	45,735	25
80				190855	27,748	25	190900	49,701	25
90				190860	29,972	25	190910	53,663	25
100				190870	32,169	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 be given for Unbrako products which are plated by users or by outside platers, who may not have considered hydrogen embrittlement problem.



Durlok® Nuts

Length	Part No.	₹ Price/100 Pcs	Box Qty
M6	404916	996	200
M8	404917	1,497	200
M10	405202	2,262	200
M12	404918	4,161	100
M14	405240	6,371	50
M16	404915	7,672	50
M20	403618	16,253	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	2,856	200	M18	550262	11,197	100
M6L	551088	3,724	200	M18L	550263	19,758	100
M8	551089	3,724	200	M20	550264	11,197	100
M8L	550253	5,043	200	M20L	550265	19,758	100
M10	550254	5,043	200	M22	550266	15,477	100
M10L	550255	5,269	200	M22L	550267	29,308	100
M12	550256	5,269	200	M24	550268	19,758	100
M12L	550257	7,738	100	M24L	550269	35,564	50
M14	550258	7,738	100	M27	550270	28,484	50
M14L	550259	11,197	100	M27L	550271	35,564	50
M16	550260	7,245	100	M30	550272	30,625	50
M16L	550261	11,197	100	M30L	550273	45,114	25

1. Note: L = Larger Outer Dia
2. Inch series available on request.
3. Stainless Steel prices available on request.
4. 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.

INTRODUCING

Unbrako Lock Nuts

Unbrako
THE WORLD LEADER

Hex Bolts

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51	All Metal Prevailing Torque Nut DIN 980M & DIN 980V
52	Spring Washer - Square Section
52	Spring Washer - Flat Section
52	Hardened Washer



Hex Head Bolts / Screws

In-house Destructive And Non destructive Testing:

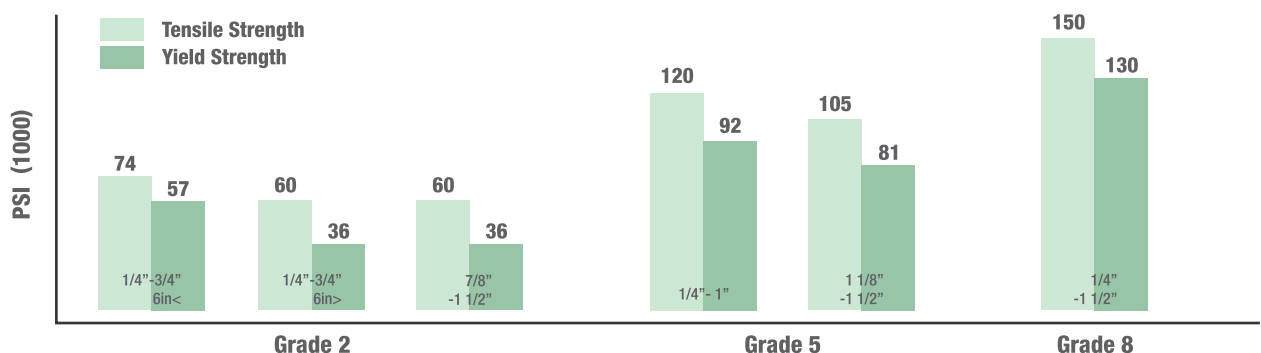
- Chemical product check analysis
- Room temprature tension tests (or at 0° C)
- Low temperature impact tests (upto -196° c)
- X-Ray Fluorescence Analysis
- Hardness tests
- UTS test
- Proof load test
- Microstructure Examination
- Macrostructure Examination
- Grains size
- Decarburization tests
- Ultrasonic Testing (UT)
- M.P.I tests
- Stress rupture tests

Advantages

- **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 (Spanner Size)	M4 (7mm)			M5 (8mm)			M6 (10mm)			M8 (13mm)		
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	425	500				550628	693	500			
10	170001	379	500	170013	403	500	170029	543	500	550642	930	500
12	170002	394	500	170014	410	500	170030	572	500	170049	788	500
16	170003	634	500	170015	589	500	170031	570	500	170050	799	200
18	170004	647	500	170016	663	500	170032	601	500	170051	669	200
20	170005	548	500	170017	523	500	170033	593	500	170052	669	200
22	170006	569	500	170018	568	500	170034	610	500	170053	814	200
25	170007	569	500	170019	548	500	170035	612	500	170054	813	200
30	170008	568	500	170020	605	500	170036	641	500	170055	909	200
35	170009	582	500	170021	611	500	170037	688	200	170056	916	200
40	170010	618	500	170022	647	500	170038	719	200	170057	1,021	200
45	170011	694	500	170023	707	500	170039	765	200	170058	1,116	200
50	170012	774	500	170024	851	500	170040	819	200	170059	1,217	200
55	240001	851	500	170025	896	500	170041	901	200	170060	1,307	100
60	240002	929	500	170026	977	200	170042	984	200	170061	1,507	100
65				170027	1,109	200	170043	1,067	100	170062	1,546	100
70				170028	1,196	200	170044	1,151	100	170063	1,638	100
75				240003	1,282	200	170045	1,161	100	170064	1,699	100
80							170046	1,222	100	170065	1,884	100
90							170047	1,378	100	170066	2,360	100
100							170048	1,532	100	170067	2,638	50
110							551178	2,355	100	240010	2,983	50
120							550866	2,562	100	240011	3,799	50
130							550867	2,759	100	240012	4,007	50
140							550868	2,964	100	550872	4,783	50
150							550869	3,165	100	550873	5,345	50
160										787951	6,462	50
170										787952	6,796	50
180										787953	6,971	50
190										787954	7,515	50
200										787955	7,866	50

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.

5. 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.

6. Upto 80mm Diameter can be manufactured against request.

7. 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.

8. Bolts/Screws as per DIN 931/933 will be manufactured against specific order with minimum order quantity of each size.

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

 Full thread as per ISO 4017

 Partial thread as per Unbrako specifications.
(Default is Full thread as per ISO 4017 Spec.)



10.9 Hex Head Bolts/Screws - Metric

DIA (Spanner Size)	M10 (ISO-16mm/DIN-17mm)			M12 (ISO-18mm/DIN-19mm)			M14 (ISO-21mm/DIN-22mm)			M16 (24mm)		
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	1,322	200	550673	2,535	100						
18	170069	1,392	200									
20	170070	1,240	200	170093	2,158	100				170142	4,926	50
22	170071	1,446	200							170143	4,926	50
25	170072	1,420	200	170094	2,275	100	170121	3,566	50	170144	4,961	25
30	170073	1,467	100	170095	2,259	100	170122	3,668	50	170145	5,243	25
35	170074	1,467	100	170096	2,382	100	170123	3,817	25	170146	5,259	25
40	170075	1,855	100	170097	2,322	100	170124	4,028	25	170147	5,321	25
45	170076	1,929	100	170098	2,904	50	170125	3,734	25	170148	5,705	25
50	170077	2,085	100	170099	3,113	50	170126	4,201	25	170149	6,043	25
55	170078	2,223	100	170100	3,230	50	170127	5,032	25	170150	6,449	25
60	170079	2,380	100	170101	3,400	50	170128	4,821	25	170151	6,928	25
65	170080	2,538	50	170102	3,568	50	170129	5,376	25	170152	7,320	25
70	170081	2,694	50	170103	3,974	50	170130	5,988	25	170153	7,774	25
75	170082	2,853	50	170104	4,138	50	170131	6,286	25	170154	8,322	25
80	170083	3,322	50	170105	4,379	50	170132	6,630	25	170155	9,083	25
90	170084	3,688	50	170106	4,799	25	170133	7,258	25	170156	9,711	25
100	170085	4,006	50	170107	5,605	25	170134	8,370	25	170157	10,557	15
110	170086	4,347	50	170108	6,227	25	170135	9,499	25	170158	11,458	15
120	170087	5,131	25	170109	6,630	25	170136	10,055	25	170159	12,783	15
130	170088	6,172	50	170110	7,049	25	170137	10,830	25	170160	15,282	15
140	170089	6,381	50	170111	8,478	25	170138	15,281	25	170161	15,596	15
150	170090	7,752	30	170112	11,757	25	170139	16,867	25	170162	18,448	15
160	170091	8,267	25	170113	12,173	20	170140	18,833	25	170163	19,217	15
180	170092	9,299	25	170114	13,205	20	170141	20,205	25	170164	21,614	15
200	550876	10,335	25	170115	17,459	25	550887	21,787	25	170165	23,402	10
220				170116	26,204	25	550888	30,641	20	170166	31,529	10
240				170117	26,849	20	550889	33,144	20	170167	33,932	10
260				170118	27,428	20	550890	35,644	20	170168	34,620	10
280				170119	29,953	18	550891	38,382	18	170169	38,218	10
300				170120	32,092	18	550892	40,959	18	170170	44,757	10
310										200017	47,111	8
320										551922	48,566	8
330										200018	50,021	8
340										812869	51,477	8
350										200019	52,932	8
360										552401	54,386	8
370										583898	55,842	6
380										200020	57,297	6
390										200021	58,753	30
400										552418	60,208	30

Full thread as per ISO 4017

Partial thread as per Unbrako specifications.
(Default is Full thread as per ISO 4017 Spec.)

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



10.9 Hex Head Bolts/Screws - Metric

DIA (Spanner Size)	M18 (27mm)			M20 (30mm)			M22 (ISO-32mm/DIN-33mm)		
Length	Part No.	₹ Price/ 100 pcs	Box Qty	Part No.	₹ Price/ 100 pcs	Box Qty	Part No.	₹ Price/ 100 pcs	Box Qty
30				550751	10,972	25			
35	550735	8,981	25	170190	10,811	25			
40	170171	9,659	25	170191	10,811	25	550775	14,648	10
45	170172	10,067	25	170192	10,972	25	550776	13,033	10
50	170173	10,377	25	170193	11,241	25	170215	14,444	10
55	170174	11,088	25	170194	11,811	25	170216	15,548	10
60	170175	11,434	25	170195	12,508	25	170217	16,106	10
65	170176	11,821	25	170196	12,916	10	170218	18,088	10
70	170177	12,508	25	170197	13,263	10	170219	18,691	10
75	170178	13,253	10	170198	13,943	10	170220	19,333	10
80	170179	13,253	10	170199	14,342	10	170221	20,079	10
90	170180	14,091	10	170200	15,250	10	170222	21,388	10
100	170181	14,945	10	170201	16,129	10	170223	21,717	10
110	170182	16,435	10	170202	17,030	10	170224	24,844	10
120	170183	17,328	10	170203	18,448	10	170225	26,513	10
130	170184	18,104	10	170204	19,711	10	170226	27,963	10
140	170185	18,911	10	170205	20,494	10	170227	29,349	10
150	170186	20,227	10	170206	21,622	10	170228	30,737	10
160	170187	22,430	10	170207	24,586	10	170229	33,457	5
180	170188	24,288	10	170208	26,733	10	170230	36,309	5
200	170189	26,137	10	170209	28,785	10	170231	37,344	5
220	240020	31,459	10	170210	50,286	5	170232	68,902	5
240	240021	34,928	10	170211	52,808	5	170233	74,637	5
260	240022	37,839	10	170212	55,331	6	170234	77,507	5
280	240023	40,751	8	170213	60,362	6	170235	86,145	5
300	240024	43,662	8	170214	65,368	6	170236	92,302	5
310				551131	74,486	5			
320				552466	76,760	5			
330				631419	79,034	5			
340				812872	81,307	5			
350				550916	83,581	5			
360				552486	85,855	5			
370				200022	88,128	5			
380				631421	90,402	4			
390				200023	92,676	4			
400				812873	94,950	4			

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.

5. 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.

6. Upto 80mm Diameter can be manufactured against request.

7. 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.

8. Bolts/Screws as per DIN 931/933 will be manufactured against specific order with minimum order quantity of each size.

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

 Full thread as per ISO 4017

 Partial thread as per Unbrako specifications.
(Default is Full thread as per ISO 4017 Spec.)

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



10.9 Hex Head Bolts/Screws - Metric

DIA (Spanner Size)	M24 (36mm)			M27 (41mm)			M30 (46mm)		
Length	Part No.	₹ Price/ 100 pcs	Box Qty	Part No.	₹ Price/ 100 pcs	Box Qty	Part No.	₹ Price/ 100 pcs	Box Qty
40	550791	22,530	10						
45	550792	18,190	10						
50	170237	18,190	10	170259	41,691	5	170281	50,662	5
55	170238	18,253	10	170260	41,691	5	170282	53,702	5
60	170239	18,911	10	170261	41,691	5	170283	50,662	5
65	170240	18,911	10	170262	41,691	5	170284	50,662	5
70	170241	20,753	10	170263	41,691	5	170285	50,662	5
75	170242	21,520	10	170264	44,837	5	170286	50,662	5
80	170243	23,645	10	170265	46,733	5	170287	52,721	5
90	170244	25,236	10	170266	51,080	5	170288	57,229	5
100	170245	27,281	10	170267	55,266	5	170289	61,588	5
110	170246	28,363	5	170268	59,594	5	170290	67,746	5
120	170247	29,945	10	170269	61,106	5	170291	69,240	5
130	170248	31,372	5	170270	63,117	5	170292	72,360	5
140	170249	32,861	5	170271	67,114	5	170293	76,847	5
150	170250	34,475	5	170272	71,109	5	170294	81,163	3
160	170251	37,492	5	170273	75,228	5	170295	95,824	3
170	240025	37,492	5	550941	75,228	5	550947	1,02,251	3
180	170252	40,737	5	170274	83,144	5	170296	1,05,699	3
190	240026	42,289	5						
200	170253	43,935	5	170275	90,660	5	170297	1,15,206	4
220	170254	79,312	5	170276	1,25,073	4	170298	1,38,936	3
240	170255	82,153	5	170277	1,34,603	4	170299	1,48,842	3
260	170256	84,998	4	170278	1,43,694	3	170300	1,58,741	2
280	170257	93,478	4	170279	1,52,416	3	170301	1,68,639	2
300	170258	1,14,276	4	170280	1,59,516	3	170302	1,79,846	2
310	813503	1,14,276	4	200027	1,62,873	3	200036	1,92,841	2
320	551149	1,17,771	3	200028	1,67,647	3	551148	1,98,379	2
330	200024	1,21,166	3	200029	1,72,423	3	790791	2,03,918	2
340	550933	1,24,563	3	200030	1,77,197	3	551125	2,12,341	2
350	830416	1,27,958	3	834275	1,81,972	3	550950	2,14,995	2
360	825628	1,31,353	3	200031	1,86,747	2	550951	2,20,533	2
370	200025	1,34,748	3	200032	1,91,522	2	200037	2,26,072	2
380	200026	1,38,143	3	200033	1,96,296	2	828512	2,31,610	2
390	825629	1,41,636	3	200034	2,01,071	2	200038	2,37,149	10
400	823821	1,45,031	12	200035	2,05,846	10	550952	2,46,398	8

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.

5. 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.

6. Upto 80mm Diameter can be manufactured against request.

7. 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.

8. Bolts/Screws as per DIN 931/933 will be manufactured against specific order with minimum order quantity of each size.

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

 Full thread as per ISO 4017

 Partial thread as per Unbrako specifications.
(Default is Full thread as per ISO 4017 Spec.)

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



10.9 Hex Head Bolts/Screws - Metric

DIA (Spanner Size)	M33 (50mm)			M36 (55mm)			M39* (60mm)			M42 (65mm)		
Length	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty
70				550845	95,731	20						
75	170303	75,862	25	550846	94,151	20				631194	1,38,017	12
80	170304	76,803	25	170320	90,531	20				550858	1,42,951	12
90	170305	81,553	25	170321	97,425	18				170336	1,42,869	12
100	170306	87,110	20	170322	1,01,351	18	200051	1,35,816	12	170337	1,60,145	12
110	170307	93,850	20	170323	1,08,244	16	811670	1,43,577	12	170338	1,68,894	12
120	170308	96,200	20	170324	1,16,963	15	833560	1,44,244	12	170339	1,70,196	8
130	170309	1,01,342	16	170325	1,16,122	12	620737	1,48,063	12	170340	1,77,383	8
140	170310	1,07,682	16	170326	1,30,112	12	828563	1,55,242	8	170341	1,87,254	8
150	170311	1,18,688	16	170327	1,37,086	12	550966	1,68,164	8	170342	1,97,105	8
160	170312	1,18,748	16	170328	1,44,093	12	550967	1,76,420	8	170343	2,06,966	8
180	170313	1,30,229	12	170329	1,67,424	12	550969	1,92,842	8	170344	2,25,766	8
200	170314	1,41,703	12	170330	1,81,280	8	550970	2,00,779	8	170345	2,35,980	6
220	170315	1,71,398	12	170331	2,17,316	8	200052	2,56,375	8	170346	3,02,694	6
240	170316	1,84,063	12	170332	2,33,130	9	550972	2,75,127	8	170347	3,25,158	6
260	170317	1,97,926	8	170333	2,48,954	8	200053	2,93,879	6	170348	3,47,695	4
280	170318	2,11,751	8	170334	2,64,362	8	200054	3,20,954	6	170349	3,70,187	4
300	170319	2,25,215	8	170335	2,99,451	7	200055	3,49,138	6	170350	3,92,662	4
310	200039	2,50,410	8	200048	3,08,860	8	200056	3,62,992	6	200065	4,31,094	4
320	200040	2,57,838	8	550962	3,17,591	4	200057	3,74,342	6	200066	4,43,099	4
330	200041	2,65,265	8	550963	3,26,321	4	836949	3,86,347	6	200067	4,55,104	4
340	200042	2,72,692	8	792681	3,35,052	4	200058	3,98,352	5	200068	4,67,109	4
350	200043	2,80,120	8	550964	3,43,783	4	200059	4,10,358	5	200069	4,79,114	4
360	583899	2,87,547	8	629762	3,52,515	4	200060	4,22,362	5	200070	4,91,119	4
370	200044	2,94,975	6	200049	3,61,246	4	200061	4,34,368	10	551152	5,03,125	4
380	200045	3,02,402	6	811375	3,69,976	6	200062	4,46,372	10	809540	5,15,129	8
390	200046	3,09,830	6	200050	3,78,707	10	200063	4,58,378	10	200071	5,27,135	8
400	200047	3,17,257	12	823800	3,87,438	10	200064	4,70,383	10	837530	5,39,139	8

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.

5. 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.

6. Upto 80mm Diameter can be manufactured against request.

7. 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.

8. Bolts/Screws as per DIN 931/933 will be manufactured against specific order with minimum order quantity of each size.

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

Full thread as per ISO 4017

Partial thread as per Unbrako specifications.
(Default is Full thread as per ISO 4017 Spec.)

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

*These are non preferred sizes and shall be serve as per MOQ basis

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



10.9 Hex Head Bolts/Screws - Metric

DIA (Spanner Size)	M45* (70mm)			M48* (75mm)			M52* (80mm)			M56* (85mm)		
Length	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty	Part No.	₹ Price/ 100 pcs	Ctn Qty
100	200072	1,84,879	10	787845	2,16,406	8	200096	2,81,401	6	200119	3,37,383	6
110	814490	1,95,150	8	787846	2,28,299	8	200097	2,95,038	6	200120	3,53,947	4
120	200073	1,95,856	8	787847	2,29,641	8	200098	2,97,981	6	200121	3,56,527	4
130	200074	2,04,997	8	787848	2,39,210	8	200099	3,09,954	6	200122	3,71,089	4
140	200075	2,09,687	8	811312	2,67,218	6	200100	3,17,591	6	200123	3,79,246	4
150	200076	2,19,258	8	606587	2,79,309	6	200101	3,30,630	6	815157	3,95,080	4
160	200077	2,45,103	6	811313	2,86,446	6	200102	3,39,029	5	200124	4,04,269	4
180	815934	2,65,105	6	550981	3,09,111	4	200103	3,65,211	5	200125	4,33,780	4
200	815935	2,80,887	6	550982	3,27,228	4	200104	4,20,908	5	200126	4,57,579	4
220	550976	3,26,502	4	550983	3,78,666	4	200105	4,84,024	4	200127	5,66,706	6
240	200078	3,48,620	4	550984	4,03,910	4	615331	5,15,720	4	200128	6,03,524	6
260	550979	4,06,795	4	787851	4,71,376	4	200106	5,97,786	4	200129	6,99,281	6
280	200079	4,31,156	4	551123	4,99,091	4	200107	6,32,391	8	200130	7,39,477	6
300	833095	4,55,518	4	551143	5,26,807	4	200108	6,66,995	8	200131	7,79,673	6
310	200080	5,13,274	4	200090	5,93,926	4	200109	7,47,192	6	200132	8,73,222	6
320	200081	5,26,589	4	551182	6,09,206	4	200110	7,66,085	6	200133	8,95,111	6
330	200082	5,40,013	4	200091	6,24,376	6	200111	7,84,979	6	200134	9,17,113	5
340	200083	5,53,327	4	551163	6,39,656	6	200112	8,03,871	6	551117	9,39,002	5
350	200084	5,66,751	4	200092	6,54,826	6	200113	8,22,765	6	200135	9,61,006	5
360	200085	5,80,066	4	200093	6,69,995	6	200114	8,41,541	6	200136	9,82,893	5
370	200086	5,93,382	4	200094	6,85,275	6	200115	8,60,435	6	200137	10,04,781	5
380	200087	6,06,805	4	823362	7,00,445	6	200116	8,79,327	6	200138	10,26,785	5
390	200088	6,20,120	4	200095	7,15,725	6	200117	8,98,221	6	200139	10,48,673	4
400	200089	6,33,435	4	809702	7,30,894	6	200118	9,17,113	6	200140	10,70,561	4

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.

5. 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.

6. Upto 80mm Diameter can be manufactured against request.

7. 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.

8. Bolts/Screws as per DIN 931/933 will be manufactured against specific order with minimum order quantity of each size.

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

Full thread as per ISO 4017

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

*These are non preferred sizes and shall be serve as per MOQ basis

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



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	661	500	170364	907	500	170381	1,431	200			
5/8	170352	820	500	170365	868	500	170382	1,431	200			
3/4	170353	746	500	170366	836	200	170383	1,247	200	170400	2,632	100
7/8	170354	673	200	170367	914	200	170384	1,508	200	170401	2,669	100
1	170355	733	200	170368	909	200	170385	1,232	200	170402	2,833	100
1 1/4	170356	751	200	550992	1,001	200	170386	1,367	200	170403	2,935	100
1 1/2	170357	832	200	170370	1,199	200	170387	1,483	100	170404	2,896	50
1 3/4	170358	911	200	170371	1,316	200	170388	1,615	100	170405	3,624	25
2	170359	999	200	170372	1,353	200	170389	1,762	100	170406	3,947	25
2 1/4	170360	1,098	200	170373	1,553	100	170390	1,893	100	170407	4,359	25
2 1/2	170361	1,224	200	170374	1,553	100	170391	2,034	100	170408	4,640	25
2 3/4	170362	1,315	200	170375	1,729	100	170392	2,221	100	170409	4,393	25
3	170363	1,470	200	170376	1,823	100	170393	2,448	100	170410	5,634	25
3 1/4	240027	1,692	200	170377	1,838	100	170394	2,631	50	170411	5,094	25
3 1/2	240028	1,711	100	170378	1,969	100	170395	2,816	50	170412	6,250	25
3 3/4	240029	1,825	100	170379	2,722	100	170396	3,408	25	170413	5,674	25
4	240030	1,959	100	170380	2,869	100	170397	3,625	25	170414	6,850	25
4 1/4				551064	2,953	100	170398	3,572	25	170415	6,361	25
4 1/2	787956	2,181	100	551065	3,114	100	170399	3,711	25	170416	7,925	25
5	551063	2,410	100	551066	2,869	100	240034	3,967	50	170417	8,656	25
5 1/2				787957	4,277	100	240035	6,089	50	170418	10,568	25
6				787958	4,636	100	240036	6,642	50	170419	12,833	25
6 1/2										240037	13,423	25
7										170420	14,548	20
7 1/2										170421	15,720	25
8										170422	16,373	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 be given for Unbrako products which are plated by users or by outside platers, 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	4,997	25									
1 1/4	170424	5,564	25	551032	9,933	25						
1 1/2	170425	5,851	25	170445	10,568	25	551044	14,968	10	170487	20,776	10
1 3/4	170426	5,956	25	170446	10,970	25	787988	15,682	10	170488	20,776	10
2	170427	6,247	25	170447	11,688	25	170467	16,473	10	170489	20,816	10
2 1/4	170428	6,599	25	170448	12,414	25	170468	27,634	10	170490	24,499	10
2 1/2	170429	7,242	25	170449	13,017	25	170469	18,269	10	170491	22,595	10
2 3/4	170430	7,829	25	170450	14,209	10	170470	19,122	10	170492	24,115	10
3	170431	8,416	25	170451	14,750	10	170471	20,000	10	170493	25,221	10
3 1/4	170432	8,957	25	170452	15,776	10	170472	22,352	10	170494	27,453	10
3 1/2	170433	9,702	25	170453	16,293	10	170473	25,743	10	170495	28,614	10
3 3/4	170434	10,078	25	170454	17,751	10	170474	23,574	10	170496	29,711	10
4	170435	10,995	25	170455	18,269	10	170475	24,844	10	170497	31,498	10
4 1/4	170436	11,419	25	170456	19,028	10	170476	26,889	10	170498	39,306	10
4 1/2	170437	11,841	25	170457	19,586	10	170477	32,136	10	170499	34,656	5
5	170438	13,323	25	170458	20,847	10	170478	29,593	10	170500	37,007	5
5 1/2	170439	12,712	20	170459	22,218	10	170479	31,168	10	170501	39,358	5
6	170440	15,706	10	170460	23,402	10	170480	33,066	10	170502	41,787	5
6 1/2	170441	17,861	10	170461	24,679	10	170481	34,968	5	170503	44,240	5
7	170442	18,684	10	170462	25,949	10	170482	36,841	5	170504	46,599	5
7 1/2	170443	19,523	10	170463	27,132	10	170483	47,371	5	170505	48,943	5
8	170444	20,385	10	170464	28,402	10	170484	40,534	5	170506	52,188	5
9	551069	26,190	10	170465	33,831	10	170485	56,200	5	170507	75,113	5
10	551070	29,104	10	170466	38,060	8	170486	58,802	5	170508	82,365	4
11				240038	40,454	8				170509	86,488	4
12				551222	44,132	8				170510	94,346	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 be given for Unbrako products which are plated by users or by outside platers, 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	25,936	5						
1 1/4	170512	28,127	5						
1 1/2	170513	30,693	10						
1 3/4	170514	31,734	10						
2	170515	34,171	10						
2 1/4	170516	36,625	5	551302	48,450	5			
2 1/2	170517	38,715	5	170534	51,273	5	170551	62,085	5
2 3/4	170518	40,806	5	170535	53,710	5	170552	64,872	5
3	170519	43,242	5	551062	56,147	5	170553	68,013	5
3 1/4	170520	45,694	5	170537	59,292	5	170554	71,847	5
3 1/2	170521	47,782	5	170538	62,085	5	170555	75,340	5
3 3/4	170522	50,221	5	170539	65,218	5	170556	79,174	5
4	170523	52,658	5	170540	68,013	4	170557	82,662	5
4 1/4	170524	55,106	5	170541	70,798	5	170558	86,499	4
4 1/2	170525	57,545	5	170542	73,940	4	170559	89,988	4
5	170526	62,085	5	170543	79,867	5	170560	97,312	4
5 1/2	170527	66,961	5	170544	85,447	3	170561	1,04,637	3
6	170528	71,502	5	170545	91,385	4	170562	1,11,963	3
6 1/2				551072	98,302	3			
7	170529	80,920	3	170546	1,02,891	3	170563	1,26,267	3
7 1/2	170530	85,447	5	170547	1,08,475	3	170564	1,33,592	3
8	170531	90,333	3	170548	1,14,399	3	170565	1,40,915	3
9	170532	1,26,267	4	170549	1,26,267	3	170566	1,55,562	2
10	170533	1,09,168	3	170550	1,37,769	3	170567	1,70,213	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 be given for Unbrako products which are plated by users or by outside platers, 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	78,122	5	170585	1,26,168	3	170602	1,76,634	2
2 3/4	170569	81,959	5	170586	1,31,511	3	170603	1,83,890	2
3	170570	85,807	5	170587	1,36,869	3	170604	1,90,780	2
3 1/4	170571	89,283	4	170588	1,42,605	2	170605	1,98,035	2
3 1/2	170572	93,825	4	170589	1,47,947	2	170606	2,05,305	2
3 3/4	170573	98,007	4	170590	1,53,685	2	170607	2,12,571	2
4	170574	1,02,544	3	170591	1,60,193	2	170608	2,19,829	2
4 1/4	170575	1,06,729	3	170592	1,66,690	2	170609	2,27,100	2
4 1/2	170576	1,11,267	3	170593	1,73,187	2	170610	2,35,507	2
5	170577	1,19,979	3	170594	1,86,194	2	170611	2,52,719	2
5 1/2	170578	1,28,704	3	170595	1,99,189	2	170612	2,69,534	2
6	170579	1,37,428	2	170596	2,12,195	2	170613	2,86,745	2
7	170580	1,54,165	2	170597	2,37,418	2	170614	3,19,237	2
7 1/2	170581	1,62,888	3	170598	2,50,034	2	170615	3,36,449	2
8	170582	1,71,610	2	170599	2,63,415	2	170616	3,53,646	2
9	170583	1,89,047	2	170600	2,89,416	2	170617	3,87,293	2
10	170584	2,06,488	2	170601	3,15,416	2	170618	4,21,701	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 be given for Unbrako products which are plated by users or by outside platers, 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 8/10

Size (mm)	Grade	Part No.	₹ Price/100 pcs	Pcs. Per Box	Pcs. Per Carton
M4 X 0.7	8	793230	125	1000	18000
M5 X 0.8	8	793201	154	700	12600
M6 X 1	8	550303	215	500	9000
M8 X 1.25	8	550304	276	200	2400
M10 X 1.5	8	550305	513	200	2400
M12 X 1.75	8	550306	799	200	1600
M16 X 2	8	550307	1,841	100	800
M6 X 1	10	170619	249	500	9000
M8 X 1.25	10	170620	294	200	2400
M10 X 1.5	10	170621	543	200	2400
(M12) X 1.5	10	170623	852	200	2400
M12 X 1.75	10	170622	818	200	2400
(M14) X 1.5	10	170625	1,631	100	800
M14 X 2	10	170626	1,695	100	800
M16 X 2	10	170627	2,096	100	800
(M18) X1.5	10	170629	3,098	100	600
M18 X 2.5	10	170630	3,098	100	600
(M20) X 1.5	10	170631	4,026	50	300
M20 X 2.5	10	170632	4,026	50	300
M22 X 2.5	10	170633	4,854	50	200
M24 X 3	10	170634	6,746	50	200
M27 X 3	10	170635	11,845	25	150
M30 X 3.5	10	170636	16,924	25	150
M33 X 3.5	10	170637	23,398	10	80
M36 X 4	10	170638	30,291	10	80
M39 X 4	10	170639	41,316	10	40
M42 X 4.5	10	170640	50,750	10	40
M45 X 4.5	10	170641	60,628	10	40
M48 X 5	10	170642	73,043	10	40
M52 X 5	10	170643	81,587	4	16
M56 X 5.5	10	170644	1,11,784	4	16
M60 X 5.5	10	550301	2,03,660	3	12
M64 X 6	10	170645	2,10,910	3	12
M72 X 6	10	550302	3,88,946	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 1367-6, ISO 898, Part-II.
4. Note : Size in brackets are non-preferred standards.
5. 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.
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 - Grade 8 UNC

Size	Part No	₹ Price /100 pcs	Pcs. Per Box	Pcs. Per Carton
1/4	170646	229	500	9000
5/16	170647	287	500	9000
3/8	170648	435	200	2400
7/16	170658	738	200	1600
1/2	170649	1,038	200	1600
5/8	170650	2,222	200	1600
3/4	170651	3,913	50	400
7/8	170652	5,007	50	200
1	170653	7,724	50	200
1-1/8	170654	11,373	25	150
1-1/4	170655	16,602	25	100
1-3/8	170656	20,004	25	100
1-1/2	170657	27,206	10	40

1. Specifications : For Nuts with UNC Threads : (ANSI B 18.2.2).
2. Threads : Unified Coarse, 2B As Per ANSI B1.1.
3. Material Mechanical Properties : Grade as tabulated as per SAE J 995.
4. Plating : No guarantee can be 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.



INTRODUCING Unbrako Lock Nuts



Lock Nut (High-Tensile)

Standard IS 1364-4 / ISO 4035, Grade 04
(suitable for screws / bolts upto Grade 8.8)

Size	Part No.	₹ Price/ 100 pcs	Pcs per Box	Pcs per Carton
M10	828536	431	250	3000
M12	787157	628	200	2000
M16	830475	1,660	100	1200
M20	787158	3,190	50	500
M24	830476	5,347	50	300
M27	838164	8,178	50	200
M30	821022	11,253	40	160

Standard IS 1364-4 / ISO 4035, Grade 05
(suitable for screws / bolts upto Grade 12.9)

Size	Part No.	₹ Price/ 100 pcs	Pcs per Box	Pcs per Carton
M10	830477	478	250	3000
M12	830478	697	200	2000
M16	551800	1,845	100	1200
M20	551801	3,545	50	500
M24	830479	5,940	50	300
M27	834947	8,947	50	200
M30	821144	12,313	40	160

1. Specifications : Nuts with Metric Threads IS 1364, ISO 4035
2. Threads : ISO Metric 6H as per IS 4218, ISO 261, ISO 965.
3. Material Mechanical Properties : Property Class as tabulated as per IS 1367-6, ISO 898, Part-II.
4. 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.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Marking*

Nylock Nut

(Nylon Ring Insert) (Duly White Zinc Plated)

DIN 985

Grade-8

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	290001	159	500	9000
M8	290002	318	200	2400
M10	290003	688	200	2400
M12	290004	1,009	200	2400
M12 X1.5	290005	1,083	200	2400
M14	290006	1,658	100	800
M16	560957	2,232	100	800
M16X1.5	630379	2,286	100	800
M20	630380	4,815	50	300
M20 X1.5	630381	5,105	50	300
M24	791270	9,895	50	200
M30	791271	24,310	25	100
M36	818459	47,482	-	40

Nylock Nut

(Nylon Ring Insert) (Duly White Zinc Plated)

ISO 7040

Grade-8

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	630448	231	500	9000
M8	630449	413	200	2400
M10	630450	914	200	2400
M12	630451	1,307	200	2400
M12X1.5	630452	1,388	200	2400
M14	630453	2,128	100	800
M16	630454	2,752	100	800
M16X1.5	630455	2,816	100	800
M20	630456	5,586	50	300
M20X1.5	630457	5,976	50	300
M24	630768	11,378	50	200
M30	814795	28,286	25	100

DIN 985

Grade-10

Size (mm)	Part No.	₹ Price/ 100 Pcs.	Pcs. Per Box	Pcs. Per Carton
M8	836160	385	200	2400
M10	630305	815	200	2400
M12	630306	1,204	200	2400
M16	290007	2,568	100	800
M16 X 1.5	290008	2,654	100	800
M20	290009	5,114	50	300
M24	290010	10,396	50	200
M30	791686	25,487	25	100
M36	794385	49,857	-	40

ISO 7040

Grade-10

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M8	836161	495	200	2400
M10	630458	1,056	200	2400
M12	630459	1,493	200	2400
M16	630460	2,784	100	800
M16 X1.5	630461	2,927	100	800
M20	630462	5,925	50	300
M24	630463	13,185	50	200
M30	830474	29,815	25	100



All Metal Prevailing Torque Nut

DIN 980V / ISO7042

(Duly White Zinc Plated)

Grade-10

Size (mm)	Part No. DIN	Part No. ISO	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	796311		447	500	9000
M8	796314		867	200	2400
M10	816933	796315	1,509	200	2400
M12	816934	796313	2,384	200	2400
M16	796312		4,523	100	800
M20	796310		8,702	50	300
M24	787170		16,459	50	300



Metal Insert Prevailing Torque Nut - DIN 980M

(Duly White Zinc Plated)

Grade-10

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	815003	1,266	500	9000
M8	815004	1,406	200	2400
M10	815005	1,560	200	2400
M12	815006	2,274	200	2400
M14	815013	3,445	100	800
M16	814419	4,548	100	800
M20	814420	9,536	50	300
M22	815007	13,645	50	300
M24	814421	20,623	50	300

1. 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.



Spring Washer - Square Section

Nominal Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton	Nominal Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
3	171758	20	2000	160000	18	171767	315	100	2400
4	171759	24	2000	90000	20	171768	584	100	1500
5	171760	29	2000	48000	22	171769	654	50	1000
6	171761	27	1000	30000	24	171770	869	50	1200
8	171762	53	1000	24000	27	171771	997	50	700
10	171763	95	500	12000	30	171772	1,743	50	500
12	171764	115	500	7000	33	171773	2,054	25	400
14	171765	190	200	4800	36	171774	2,984	25	350
16	171766	286	100	3000	39	171775	3,231	25	250

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



Spring Washer - Flat Section

Nominal Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton	Nominal Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
3	171776	20	2000	140000	18	171785	508	100	1800
4	171777	23	2000	120000	20	171786	757	100	1400
5	171778	29	2000	60000	22	171787	820	50	800
6	171779	52	1000	32000	24	171788	1,227	50	700
8	171780	87	1000	14000	27	171789	1,369	50	700
10	171781	125	500	7000	30	171790	2,498	50	500
12	171782	186	500	5000	33	171791	3,997	25	200
14	171783	289	200	3200	36	171792	4,185	25	350
16	171784	436	100	3000	39	171793	4,392	25	250

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



Hardened Washer for 10.9 Bolts

Nominal Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
12	551111	642	500	4000
16	551112	1,123	200	1600
20	551113	1,701	100	800
22	631368	2,051	100	800
24	551114	2,400	100	600
27	630476	4,027	100	400
30	630477	5,034	100	400
33	793331	7,347	50	300
36	796066	8,207	100	400
39	793826	14,040	25	125
42	811369	19,240	25	100
45	811370	23,005	20	80
48	811371	31,231	15	60
52	200016	34,354	15	60
56	811372	44,304	10	40



1. Specifications : Generally conforming to 300HV minimum. 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 platers, 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.

Construction

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IS : 3757



CM/L-9700156815

IS : 6623



CM/L-9700156916

IS : 6649



CM/L-9700157017



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 & EN 14399-3, EN 14399-4 or as per IS 3757

Auto Torque Check Bolt Assembly (TC Bolt)



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 – M36 (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 High Strength Structural Bolts - Metric

DIA	M16			M20			M22		
Length	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	6,058	25	300021	11,196	25			
45	300002	6,599	25	300022	12,049	25			
50	300003	6,942	25	300023	12,600	25	300041	17,088	10
55	300004	7,169	25	300024	13,159	25	300042	17,573	10
60	300005	7,645	25	300025	14,062	20	300043	18,294	10
65	300006	8,064	25	300026	14,681	20	300044	19,967	10
70	300007	8,523	25	300027	15,207	10	300045	20,916	10
75	300008	9,121	25	300028	15,786	10	300046	21,571	10
80	300009	10,016	25	300029	16,231	10	300047	22,330	10
90	300010	10,504	25	300030	17,253	10	300048	24,548	10
100	300011	11,394	25	300031	18,248	10	300049	25,106	10
110	300012	12,305	25	300032	18,954	10	300050	27,102	10
120	300013	13,570	15	300033	20,560	10	300051	28,895	10
130	300014	15,580	10	300034	22,109	10	300052	30,506	10
140	300015	15,830	10	300035	22,793	10	300053	31,902	10
150	300016	18,769	10	300036	24,021	10	300054	33,453	10
160	300017	20,313	10	300037	28,612	10	300055	37,959	5
170	300018	21,571	10	300038	29,824	10	300056	39,553	5
180	300019	22,827	10	300039	31,041	10	300057	41,140	5
200	300020	25,747	10	300040	34,810	10	300058	44,225	5
220				630603	47,377	10			

1. Specifications : Bolts IS 3757.
2. Threads : Bolts ISO Metric 6g as per IS 4218.
3. Material and Mechanical Properties: Bolts - Property Class 10.9S as per IS 1367.
4. 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.
5. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.



ISO 9001

IATF 16949

ISO 14001

ISO 45001





IS 3757 High Strength Structural Bolts - Metric

DIA	M24			M27			M30			M36		
Length	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Qty	International Part No.	₹ Price/ 100 pcs	Box Qty
55	300059	22,254	10									
60	300060	23,040	10	300076	46,918	5						
65	300061	24,955	10	300077	49,110	5						
70	300062	25,339	10	300078	48,779	5						
75	300063	27,563	10	300079	52,128	5	300092	62,964	5			
80	300064	28,097	10	300080	54,471	5	300093	65,192	5			
90	300065	31,045	5	300081	57,873	5	300094	66,994	5			
100	300066	33,344	5	300082	62,134	5	300095	71,841	5			
110	300067	34,162	5	300083	64,690	5	300096	78,203	5			
120	300068	35,501	5	300084	66,489	5	300097	79,721	5	581151	1,40,936	5
130	300069	37,042	5	300085	68,392	5	300098	83,550	5	581153	1,48,989	4
140	300070	38,633	5	300086	72,505	5	300099	88,503	5	581155	1,56,811	4
150	300071	40,378	5	300087	76,573	5	300100	93,278	5	581157	1,64,941	4
160	300072	45,883	5	300088	84,338	5	300101	1,05,330	4	581159	1,72,686	4
170	300073	49,730	5	300089	93,074	5	300102	1,15,790	4	581161	1,80,429	4
180	300074	51,976	5	300090	92,866	5	300103	1,15,605	4	581163	1,88,483	4
200	300075	55,841	5	300091	1,00,782	5	300104	1,25,766	4	581167	2,03,660	3
220	792919	68,244	5				581122	1,35,928	3	581171	2,19,146	3
240							581126	1,46,091	3	581175	2,34,635	3
260	786800	80,208	4				581130	1,56,255	3	581179	2,50,898	3
280										581183	2,66,385	3
300										581186	2,81,872	3

IS 6623 High Strength Structural Nuts

Metric

Diameter	M16	M20	M22	M24	M27	M30	M36
International Part No.	131001	131002	131003	131004	131005	131006	581348
₹ Price/100 pcs	2,960	5,995	6,999	10,045	16,249	20,567	35,466
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	1,874	2,346	3,342	3,532	5,678	7,064	10,764
Box Quantity	200	100	100	100	100	100	10

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

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

3. Material and Mechanical Properties : Bolts - Property Class 10.9S as per IS 1367.

Nuts: Property Class 10S as per IS 1367. Washer: Hardness: HRC 38-45 as per IS 6649

4. 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.

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

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST





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	10,375
-----	M16 x 1.5 x 73	T.S. Bolt	D50, D50A 15	834073	16,753
130.32.11220	M16 x 1.5	T.S. Sq. Nut	D50, D50A 15	330002	4,304
130.32.11212/130.32.11220	M16 x 1.5 x 57	T.S. Bolt & Sq. Nut	D50, D50A 15	550287	14,679
-----	M16 x 1.5 x 73	T.S. Bolt & Sq. Nut	D50, D50A 15	834072	21,057
-----	M18 x 1.5 x 55	T.S. Bolt	Pc220	834070	13,833
205.32.51210	M18 x 1.5 x 58	T.S. Bolt	Pc220	330003	14,218
01803.01824	M18 x 1.5	T.S. Sq. Nut	Pc220	330004	5,226
-----	M18 x 1.5 x 55	T.S. Bolt & Sq. Nut	Pc220	834069	19,059
205.32.51210/01803.01824	M18 x 1.5 x 58	T.S. Bolt & Sq. Nut	Pc220	550288	19,444
113CT51096	M19 x 1.5 x 62	T.S. Bolt	D80, D80A 12	330006	16,139
150.32.11210	M19 x 1.5 x 65	T.S. Bolt	D80, D80A 12	330005	16,907
150.32.21311	M19 x 1.5	T.S. Sq. Nut	D80, D80A 12	330007	5,918
113CT51096/150.32.21311	M19 x 1.5 x 62	T.S. Bolt & Sq. Nut	D80, D80A 12	550290	22,056
150.32.11210/150.32.21311	M19 x 1.5 x 65	T.S. Bolt & Sq. Nut	D80, D80A 12	550289	22,825
207.32.11350	M20 x 1.5 x 63	T.S. Bolt	PC300	330008	18,444
-----	M20 x 1.5	T.S. Sq. Nut	PC300	550308	6,302
207.32.11350	M20 x 1.5 x 63	T.S. Bolt & Sq. Nut	PC300	550291	24,746
176.32.11210	M24 x 1.5 x 78.5	T.S. Bolt	D155	330009	32,277
178.32.11220	M24 x 1.5	T.S. Sq. Nut	D155	330010	11,144
176.32.11210/178.32.11220	M24 x 1.5 x 78.5	T.S. Bolt & Sq. Nut	D155	550292	43,421
195.32.11210	M27 x 1.5 x 82.5	T.S. Bolt	D355	330011	43,805
195.32.11221	M27 x 1.5	T.S. Sq. Nut	D355	330012	16,446
195.32.11210/195.32.11221	M27 x 1.5 x 82.5	T.S. Bolt & Sq. Nut	D355	550294	60,250

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 be given for Unbrako products which are plated by users or by outside platers, 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.



FLANGE TRACK SHOE BOLT

Suitable for BEML (KOMATSU) Earthmovers

International Part No.	Size	Description	₹ Price/ 100 pcs
834480	16 x 1.5 x 75	T.S. Flange Bolt	17,292
834074	16 x 1.5	T.S. Sq. Nut	4,304
834479	16 x 1.5 x 75	T.S. Bolt & Sq. Nut	21,596
798239	20 x 1.5 x 56	T.S. Flange Bolt	17,907
798098	20 x 1.5 x 65	T.S. Flange Bolt	18,829
550308	20 x 1.5	T.S. Sq. Nut	6,302
798241	20 x 1.5 x 56	T.S. Flange Bolt + Nut	24,209
799552	20 x 1.5 x 65	T.S. Flange Bolt + Nut	25,131
200001	22 x 1.5 x 67	T.S. Flange Bolt	23,055
200002	22 x 1.5	T.S. Sq. Nut	8,223
200003	22 x 1.5 x 67	T.S. Flange Bolt + Nut	31,278
832741	24 x 1.5 x 72	T.S. Flange Bolt	29,203
330010	24 x 1.5	T.S. Sq. Nut	11,144
832740	24 x 1.5 x 72	T.S. Flange Bolt + Nut	40,347
200004	27 x 2 x 93	T.S. Flange Bolt	49,569
200005	27 x 2	T.S. Sq. Nut (Collar Nut)	19,827
200006	27 x 2 x 93	T.S. Flange Bolt + Nut	69,396



SEGMENT BOLT

International Part No.	Size	Description	₹ Price/ 100 pcs	O.E. Part No. (For Ref. Only)
833988	22 x 2 x 70	SEGM TRACK BOLT	39,666	154-27-12320
833989	22 x 2	Hex Nut	13,043	01803-02228
833987	22 x 2 x 70	SEGM BOLT + NUT	52,710	154-27-12320/01803-02228
200007	24 x 2 x 80	SEGM TRACK BOLT	54,246	178-27-11150
200008	24 x 2	Hex Nut	16,457	01803-02430
200009	24 x 2 x 80	SEGM BOLT + NUT	70,702	178-27-11150/01803-02430

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 be given for Unbrako products which are plated by users or by outside platers, 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.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



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	8,200
5M-8756	5/8" UNF x 2 1/4"	T.S. Bolt	D4, D5	330017	8,643
1M-1408	5/8" UNF	T.S. Sq. Nut	D4, D5	330018	4,376
7H-3597 / 1M-1408	5/8 " UNF x 2.3/32"	T.S. Bolt & Sq. Nut	D4, D5	550295	12,576
5M-8756 / 1M-1408	5/8" UNF x 2 1/4"	T.S. Bolt & Sq. Nut	D4, D5	550296	13,019
7H-3598	3/4 " UNF x 2.3/8"	T.S. Bolt	D6, D7	330019	16,370
7H-3598	3/4" UNF x 2.3/4"	T.S. Bolt	D6, D7	630419	19,981
7H-3598	3/4" UNF x 60"	T.S. Bolt	D6, D7	834067	16,370
7H-3598	3/4" UNF x 63/36"	T.S. Bolt	D6, D7	838430	17,676
	3/4" UNF x 78"	T.S. Bolt	D6, D7	200010	20,221
7H-3598	3/4" UNF x 80/38"	T.S. Bolt	D6, D7	838432	22,287
-----	3/4" UNF x 105"	T.S. Bolt	D6, D7	200011	24,208
1S-1860	3/4" UNF	T.S. Sq. Nut	D6, D7	330020	5,841
7H-3598/'1S-1860	3/4" UNF x 2.3/8"	T.S. Bolt & Sq. Nut	D6, D7	550297	22,210
7H-3598/'1S-1860	3/4" UNF x 2.3/4"	T.S. Bolt & Sq. Nut	D6, D7	816932	25,822
7H-3598/'1S-1860	3/4" UNF x 60"	T.S. Bolt & Sq. Nut	D6, D7	834066	22,210
7H-3598/'1S-1860	3/4" UNF x 63/36"	T.S. Bolt & Sq. Nut	D6, D7	838429	23,516
	3/4" UNF x 78"	T.S. Bolt & Sq. Nut	D6, D7	200012	26,061
7H-3598/'1S-1860	3/4" UNF x 80/38"	T.S. Bolt & Sq. Nut	D6, D7	838431	28,127
-----	3/4" UNF x 105"	T.S. Bolt & Sq. Nut	D6, D7	200013	30,049
7H-3598	7/8" UNF x 2.66"	T.S. Bolt	D8	833278	25,758
1S-1860	7/8" UNF	T.S. Sq. Nut	D8	330015	9,143
7H-3598/1S-1860	7/8" UNF x 2.66"	T.S. Bolt & Sq. Nut	D8	833277	34,901
9M-7445	1" UNF x 2.94"	T.S. Bolt	D9	330021	38,319
1S-6421	1" UNF	T.S. Sq. Nut	D9	330022	13,833
9M-7445/1S-6421	1" UNF x 2.94"	T.S. Bolt & Sq. Nut	D9	550299	52,152

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 be given for Unbrako products which are plated by users or by outside platers, 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.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



High Tensile PLOW Bolts & Hex Nuts - Zinc Phosphate Finish

Suitable for Caterpillar Earthmovers

O.E. Part No. (For Ref. Only)	Size	Description	International Part No.	₹ Price/ 100 pcs
3F-5108	5/8" UNC x 57.5"	Plow Bolt	833985	9,699
4K-0367	5/8" UNC	Hex Nut	833986	3,344
3F-5108/4K-0367	5/8" UNC x 57.5"	Plow Bolt & Hex Nut	833984	13,043
5J-4773	3/4" UNC x 63.5"	Plow Bolt	833982	14,416
	3/4" UNC x 71.0"	Plow Bolt	200014	14,867
2J-3506	3/4" UNC	Hex Nut	833983	4,505
5J-4773/2J-3506	3/4" UNC x 63.5"	Plow Bolt & Hex Nut	833981	18,921
	3/4" UNC x 71.0"	Plow Bolt & Hex Nut	200015	19,372

High Tensile Segment Bolt - Zinc Phosphate Finish

Suitable for Caterpillar Earthmovers

6V-0937	5/8" UNC x 54"	Segment Bolt	834076	12,800
7H-3607	5/8" UNC	Hex Nut	834077	4,675
6V-0937/7H-3607	5/8" UNC x 54"	Segment Bolt & Hex Nut	834075	17,474

High Tensile Track Shoe Bolts & Square Nuts

Suitable for HM-TEREX & HM DEMAG Earthmovers

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	19,981
06400140	3/4" UNF	T.S. Sq. Nut	H36	330020	5,841
01801340/06400140	3/4" x UNF x 2.3/4"	T.S. Bolt & Sq. Nut	H31, H36, H41	816932	25,822
06327940	7/8" UNF x 3.11/32" (84.9 mm)	T.S. Bolt	H51, H55	330023	29,415
06400240	7/8" UNF	T.S. Sq. Nut	H51	330015	9,143
06327940/06400240	7/8" UNF x 3.11/32" (84.9 mm)	T.S. Bolt & Sq. Nut	H51, H55	550300	38,558

High Tensile Track Shoe Bolts & Square Nuts

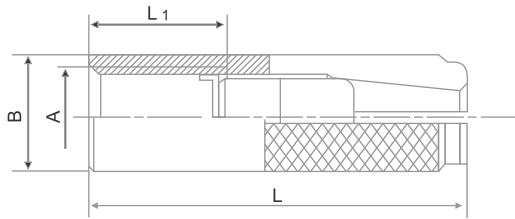
Suitable for L & T Poclain Earthmovers

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	8,643
K 01345.36	5/8" UNF	T.S. Sq. Nut	90 CK	330018	4,376
W 00 330.71/K 01345.36	5/8" UNFx2.1/4"	T.S. Bolt & Sq. Nut	90 CK	550296	13,019
U 02330-77	7/8" UNFx2.66"	T.S. Bolt	300 CK	833278	25,758
Z 02345-07	7/8" UNF	T.S. Sq. Nut	300 CK	330015	9,143
U 02330-77/Z 02345-07	7/8" UNFx2.66"	T.S. Bolt & Sq. Nut	300 CK	833277	34,901

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Drop In Anchors



Raw Material:
Special steel developed by UNBRAKO USA

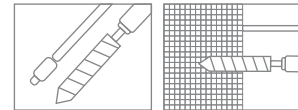
Value Are In KN

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

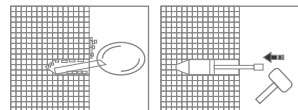
Drop In Anchors

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	736
DANCH0830ZP	551655	M8	10.0	13	30	100	1800	961
DANCH1040ZP	551656	M10	12.0	15	40	50	1000	1,496
DANCH1250ZP	530269	M12	16.0	20	50	50	600	3,543
DANCH1660ZP	551657	M16	20.0	25	60	25	300	5,971

DROP IN ANCHORS



HAMMER SET ANCHORS



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

Hexagon Weld Nut

Size (mm)	Part No.	₹ Price/ 100 pcs	Pcs. Per Box	Pcs. Per Carton
M6	136004	163	500	9000
M8	136001	311	200	2400
M10	136002	572	200	2400
M12	136003	814	200	1600



1. Specifications : Generally conforming to DIN 929. Grade 6
2. 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.
3. Products can be supplied with Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.
4. No head marking.



Direct Tension Indicator BS EN 14399-9

(Auto Torque Indicator) For 8.8S Bolt Assembly
(Duly Mechanical Zinc Plated)

Size	Part No.	₹ Price/ 100 pcs	Pcs/Box	Pcs/Carton
M16	630330	3,314	100	1200
M20	370002	5,696	100	800
M22	370003	7,171	50	400
M24	370004	9,604	50	400
M27	370005	12,161	50	300

Direct Tension Indicator BS EN 14399-9

(Auto Torque Indicator) For 10.9 S Bolt Assembly
(Duly Mechanical Zinc Plated)

Size	Part No.	₹ Price/ 100 pcs	Pcs/Box	Pcs/Carton
M16	787570	3,413	100	1200
M20	551752	5,920	100	800
M22	787571	7,529	50	400
M24	370006	9,604	50	400

Size	Part No.	₹ Price/ 100 pcs	Pcs/Box	Pcs/Carton
M27	370007	12,161	50	300
M30	370008	17,740	25	200
M36	370009	25,481	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.

Unbrako Upset Parallel Threaded Coupler

DIA	International Part No.	Bar Designation No. [mm]	Outer Dia [mm]	Length in mm	Thread size	₹ Price/ 100 pcs	Carton
12	787739	4 [13]	20	28	M14x2	8,622	400
16	787740	5 [16]	26	40	M20x2.5	14,009	200
20	787741	6 [19]	34	48	M24x3	18,679	100
25	787743	8 [25]	42	60	M30x3.5	28,737	60
28	787744	9 [29]	48	66	M33x3.5	43,105	40
32	787745	10 [32]	53	72	M36x4	52,085	28
36	787746	11 [36]	60	84	M42x4.5	83,337	23
40	787747	14 [43]	65	90	M45x4.5	107,405	20



1. Specifications: ASTM A615, A706, A775, IS 1786, 16172

2. Material and Mechanical Properties: as per Unbrako Spec.

3. Finish: Self/Plain

Separate Construction Catalogue available on request

TWIST-OFF TYPE TENSION CONTROL STRUCTURAL BOLT

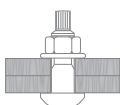
Tension control structural bolt is an easy to install heavy duty bolt used in steel frame construction. The combination of high tensile strength and ductility results in a structural bolt that can be employed in almost all steel work connections. This high strength positive tension shear bolt has its own built in torque control device.

Unbrako electric shear wrench is used for tightening the bolt. The outer socket rotates the nut until the torque control groove in the spline shears off, thereby achieving proper bolt tension. This shear area is designed to facilitate the ideal seating torque requirements for the installation of the bolt. No specialist operator expertise is required as the correct installation is automatically realized through the design of the bolt.

Installation Procedure:

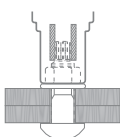
(Step 1)

- Place bolt through hole in the joining members. Attach washer & run up nut finger tight to the working members.



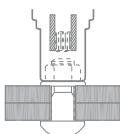
(Step 2)

- Fit the inner socket of the drive unit firmly over the bolt tip (spline).
- Engage the outer socket over the nut by pushing the shear wrench.
- Pull lever switch to on. The outer socket rotates the nut. As the tensile load increases the torque tension in the bolt also increases until the bolt reaches its designed shear strength and shears in the designated portion of the bolt.



(Step 3)

- Turn off wrench when bolt tip (Spline) shears off.



(Step 4)

- Pull the shear wrench back to remove outer socket from the nut.
- Pull the eject lever on the wrench to discharge the severed bolt tip (Spline) from the inner socket



Unbrako Electric Torque/Shear Wrench

	EXTENSION SOCKETS						
	M12	M16	M20	M22	M24	M27	M30
UNB-16E	●	●					
UNB-20E	●	●	●				
UNB-22E	●	●	●	●			
UNB-24E		●	●	●	●		
UNB-27E		●	●	●	●	●	
UNB-30E						●	●

Unbrako Electric wrenches are available with various socket extensions to match different sizes of Unbrako Tension Control Bolts, allowing easy & accurate installation.

Advantages of Tension Control Bolts

- Quick, safe and easy to Install
- Speed of Installation.
- Visual inspection.
- Substantial cost savings.
- Consistent Tension is assured in application.
- No specialist torque wrenches or gauges required.
- No specialist operator expertise required for installation.
- Single operator installation & Reduced operator fatigue.



Applications

- Stadium
- Bridges
- Buildings
- Airport / Railway Station
- Gantry Advertisement
- Rivet Replacement



Pre-Load Tension Control Structural Bolts System HRC - BS EN 14399-10

Metric

DIA	M12			M16			M20		
Length	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity
30	550001	3,541	50						
35	550002	3,858	50						
40	550003	4,176	50	550009	7,421	25	797881	14,716	25
45	550004	4,501	50	550010	7,989	25	797882	15,438	25
50	550005	4,819	50	550011	8,317	25	550037	15,123	25
55	550006	5,152	50	550012	8,557	25	550038	15,707	25
60	550007	5,475	50	550013	9,105	25	550039	16,599	25
65	550008	5,808	50	550014	9,622	25	550040	17,259	20
70	550231	6,131	50	550015	10,198	25	550041	17,901	10
75				550016	10,942	25	550042	18,568	10
80				550017	12,010	25	550043	19,123	10
85				550018	12,508	25	550044	20,171	10
90				550019	12,407	25	550045	20,583	10
95				550020	13,278	25	550046	21,863	10
100				550021	13,673	25	550047	22,014	10
110				550023	14,591	25	550049	22,778	10
120				550025	16,060	15	550051	24,625	10
130				550027	17,823	15	550053	26,355	10
140				550029	17,849	10	550055	27,072	10
150				550031	20,978	10	550057	28,481	10
160				550033	22,476	10	550059	33,384	10
170				550035	23,680	10	550061	34,412	10
180				550236	24,876	5	550063	35,547	10
190				550237	26,441	5	550065	37,794	10
200				550238	27,662	5	550067	39,088	10

1. Specifications : Bolts BS EN 14399-10
2. Material and Mechanical Properties: Bolts - Property Class 10.9 HRC
3. Finish: Black Oxide

NOTE:

- 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 also available in Zinc-Flake and KoteEnviroGrin® coating. Prices available on request.
- Tension Control Structural Bolt with Hex Head also available on request, prices will remain same.



*Unbrako Electric Shear Wrench

For assembly & installation of Tension Control Structural Bolt at site
Unbrako electric shear wrench can be made available for hire/sale.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Pre-Load Tension Control Structural Bolts System HRC - BS EN 14399-10

Metric

DIA	M22			M24			M27		
Length	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity
50	797884	21,574	10						
55				795192	29,032	10			
60	550069	22,046	10	550098	28,999	10	797885	55,756	5
65	550070	23,510	10	550099	31,299	10	797886	58,145	5
70	550071	24,975	10	550100	31,596	10	550144	58,004	5
75	550072	25,791	10	550101	34,292	10	550145	61,762	5
80	550073	26,607	10	550102	34,838	10	550146	64,163	5
85	550074	27,944	10	550103	36,831	10	550147	65,963	5
90	550075	29,278	10	550104	38,352	10	550148	68,170	5
95	550076	29,621	10	550105	39,526	10	550149	70,930	5
100	550077	29,978	10	550106	41,059	10	550150	72,716	5
110	550079	32,310	10	550108	41,984	10	550152	76,410	5
120	550081	34,339	10	550110	43,319	5	550154	78,544	5
130	550083	36,156	10	550112	45,175	5	550156	80,546	5
140	550085	37,764	10	550114	46,959	5	550158	86,093	5
150	550087	39,642	5	550116	48,914	5	550160	90,104	5
160	550089	43,725	5	550118	55,488	5	550162	99,559	5
170	550091	45,044	5	550120	59,933	5	550164	1,09,848	5
180	550093	46,308	5	550122	62,285	5	550166	1,09,674	5
190	550095	47,734	5	550124	64,904	5	550168	1,14,557	5
200	550097	49,089	5	550126	63,534	5	550170	1,14,911	5

1. Specifications : Bolts BS EN 14399-10
2. Material and Mechanical Properties: Bolts - Property Class 10.9 HRC
3. Finish: Black Oxide

NOTE:

- 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 also available in Zinc-Flake and KoteEnviroGrin® coating. Prices available on request.
- Tension Control Structural Bolt with Hex Head also available on request, prices will remain same.



*Unbrako Electric Shear Wrench

For assembly & installation of Tension Control Structural Bolt at site
Unbrako electric shear wrench can be made available for hire/sale.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Pre-Load Tension Control Structural Bolts System HRC - BS EN 14399-10

DIA	M30			M36		
Length	International Part No.	₹ Price/ 100 pcs	Box Quantity	International Part No.	₹ Price/ 100 pcs	Box Quantity
60	795195	69,212	5			
70	550251	75,398	5	797889	1,30,217	4
75	797888	74,709	5	797890	1,33,787	4
80	550188	77,224	5	797891	1,37,358	4
85	550189	77,815	5	797892	1,36,658	4
90	550190	78,579	5	797893	1,41,275	4
95	550191	81,663	5	797894	1,43,613	4
100	550192	84,470	5	797895	1,48,157	4
110	550194	92,489	5	797896	1,56,337	3
120	550196	93,824	5	797897	1,65,313	3
130	550198	97,824	5	797898	1,74,403	3
140	550200	1,03,749	5	797899	1,83,491	3
150	550202	1,09,714	5	797900	1,92,582	3
160	550204	1,23,907	4	797901	2,01,671	3
170	550206	1,36,215	4	797902	2,10,760	3
180	550208	1,35,894	4	797903	2,19,849	3
190	550210	1,42,873	3	797904	2,28,825	3
200	550212	1,47,882	4	797905	2,37,915	3

1. Specifications : Bolts BS EN 14399-10

2. Material and Mechanical Properties:

Bolts - Property Class 10.9 HRC

3. Finish: Black Oxide

NOTE:

• 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.

• Products also available in Zinc-Flake and KoteEnviroGrin® coating. Prices available on request.

• Tension Control Structural Bolt with Hex Head also available on request, prices will remain same.

Nut - BS EN 14399-10 (HRD) k-class K1

Metric

Diameter	M12	M16	M20	M22	M24	M27	M30	M36
International Part No.	798047	798048	798049	630627	798050	798051	630628	798052
₹ Price/100 pcs	1,429	3,167	6,095	7,103	11,130	15,624	19,776	36,689
Box Quantity	100	100	50	50	25	10	10	10

Washer - BS EN 14399-6

Metric

Diameter	M12	M16	M20	M22	M24	M27	M30	M36
International Part No.	625773	625774	625775	630632	625776	802087	625777	625778
₹ Price/100 pcs	901	1,701	2,396	3,409	3,375	5,580	6,666	12,131
Box Quantity	200	200	100	100	100	100	50	50

Washer - JIS B 1186

Metric

Diameter	M12	M16	M20	M22	M24	M27	M30	M36
International Part No.	819318	819319	819320	819321	819322	819323	819324	819325
₹ Price/100 pcs	1,198	2,444	3,502	6,431	6,551	9,184	13,739	19,863
Box Quantity	200	200	100	100	100	100	50	50

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST

Petrochemical

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75	Heavy Hex Nut



Petrochemical Fasteners

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

ISO 9001:2015 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 - Metric without nuts

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	552001	2,189	552013	4,023						
70	552002	2,554	552014	4,693	552033	6,079				
80	552003	2,918	552015	5,363	552034	6,947	552055	8,392		
90	552004	3,283	552016	6,034	552035	7,816	552056	9,441	552078	11,638
100	552005	3,649	552017	6,703	552036	8,686	552057	10,489	552079	12,932
110	552006	4,012	552018	7,373	552037	9,553	552058	11,538	552080	14,226
120	552007	4,379	552019	8,044	552038	10,422	552059	12,588	552081	15,519
130	552008	4,742	552020	8,714	552039	11,290	552060	13,637	552082	16,812
140	552009	5,107	552021	9,385	552040	12,159	552061	14,685	552083	18,105
150	552010	5,473	552022	10,056	552041	13,027	552062	15,735	552084	19,398
160	552011	5,837	552023	10,726	552042	13,896	552063	16,784	552085	20,691
170	552012	6,201	552024	11,396	552043	14,764	552064	17,832	552086	21,985
180			552025	12,066	552044	15,633	552065	18,881	552087	23,278
190			552026	12,737	552045	16,500	552066	19,930	552088	24,571
200			552027	13,407	552046	17,370	552067	20,980	552089	25,864
210			552028	14,078	552047	18,238	552068	22,028	552090	27,157
220			552029	14,749	552048	19,107	552069	23,077	552091	28,449
230			552030	15,419	552049	19,975	552070	24,126	552092	29,743
240			552031	16,088	552050	20,843	552071	25,175	552093	31,037
250			552032	16,759	552051	21,711	552072	26,223	552094	32,330
260					552052	22,581	552073	27,273	552095	33,624
270					552053	23,448	552074	28,322	552096	34,916
280					552054	24,317	552075	29,372	552097	36,210
290							552076	30,419	552098	37,503
300							552077	31,468	552099	38,796
320									552100	41,382

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.
For Nuts please follow the prices on Page no. 71



Stud Bolt - Metric without nuts

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	552101	13,701								
100	552102	15,223								
110	552103	16,745	552126	21,837						
120	552104	18,266	552127	23,822	552151	29,376				
130	552105	19,789	552128	25,808	552152	31,822	552180	39,563		
140	552106	21,311	552129	27,793	552153	34,270	552181	42,607	552208	50,282
150	552107	22,832	552130	29,778	552154	36,719	552182	45,651	552209	53,873
160	552108	24,357	552131	31,763	552155	39,166	552183	48,693	552210	57,466
170	552109	25,879	552132	33,748	552156	41,613	552184	51,736	552211	61,056
180	552110	27,400	552133	35,734	552157	44,063	552185	54,781	552212	64,648
190	552111	28,922	552134	37,719	552158	46,511	552186	57,824	552213	68,240
200	552112	30,445	552135	39,703	552159	48,957	552187	60,866	552214	71,832
210	552113	31,966	552136	41,689	552160	51,407	552188	63,911	552215	75,424
220	552114	33,489	552137	43,674	552161	53,854	552189	66,954	552216	79,015
230	552115	35,012	552138	45,660	552162	56,301	552190	69,997	552217	82,606
240	552116	36,533	552139	47,645	552163	58,751	552191	73,040	552218	86,197
250	552117	38,055	552140	49,630	552164	61,198	552192	76,084	552219	89,789
260	552118	39,579	552141	51,615	552165	63,646	552193	79,127	552220	93,380
270	552119	41,102	552142	53,600	552166	66,094	552194	82,171	552221	96,972
280	552120	42,623	552143	55,585	552167	68,542	552195	85,213	552222	1,00,563
290	552121	44,145	552144	57,571	552168	70,989	552196	88,258	552223	1,04,156
300	552122	45,668	552145	59,556	552169	73,439	552197	91,300	552224	1,07,747
320	552123	48,711	552146	63,526	552170	78,333	552198	97,386	552225	1,14,931
340	552124	51,756	552147	67,497	552171	83,229	552199	1,03,475	552226	1,22,114
360	552125	54,800	552148	71,467	552172	88,124	552200	1,09,559	552227	1,29,297
380			552149	75,437	552173	93,020	552201	1,15,648	552228	1,36,479
400			552150	79,408	552174	97,918	552202	1,21,735	552229	1,43,663
420					552175	1,02,812	552203	1,27,821	552230	1,50,845
440					552176	1,07,709	552204	1,33,908	552231	1,58,029
460					552177	1,12,605	552205	1,39,995	552232	1,65,212
480					552178	1,17,499	552206	1,46,081	552233	1,72,395
500					552179	1,22,396	552207	1,52,168	552234	1,79,578

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.
For Nuts please follow the prices on Page no. 71

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Stud Bolt - Metric without nuts

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	552235	64,727										
160	552236	69,042	552261	79,274								
170	552237	73,357	552262	84,229	552286	98,859						
180	552238	77,673	552263	89,183	552287	1,04,674	552310	1,17,624				
190	552239	81,987	552264	94,139	552288	1,10,489	552311	1,24,159	552333	1,49,078		
200	552240	86,303	552265	99,094	552289	1,16,304	552312	1,30,694	552334	1,56,925		
210	552241	90,617	552266	1,04,049	552290	1,22,119	552313	1,37,228	552335	1,64,771	823506	1,95,991
220	552242	94,931	552267	1,09,003	552291	1,27,936	552314	1,43,763	552336	1,72,617	823507	2,05,325
230	552243	99,248	552268	1,13,957	552292	1,33,750	552315	1,50,298	552337	1,80,463	823508	2,14,658
240	552244	1,03,562	552269	1,18,912	552293	1,39,566	552316	1,56,832	552338	1,88,309	823509	2,23,991
250	552245	1,07,878	552270	1,23,866	552294	1,45,380	552317	1,63,367	552339	1,96,156	823510	2,33,323
260	552246	1,12,193	552271	1,28,822	552295	1,51,196	552318	1,69,901	552340	2,04,002	823511	2,42,656
270	552247	1,16,507	552272	1,33,776	552296	1,57,010	552319	1,76,436	552341	2,11,847	823512	2,51,990
280	552248	1,20,823	552273	1,38,731	552297	1,62,827	552320	1,82,972	552342	2,19,695	823513	2,61,323
290	552249	1,25,137	552274	1,43,685	552298	1,68,642	552321	1,89,506	552343	2,27,541	823514	2,70,655
300	552250	1,29,453	552275	1,48,640	552299	1,74,457	552322	1,96,041	552344	2,35,387	823515	2,79,987
320	552251	1,38,083	552276	1,58,548	552300	1,86,087	552323	2,09,108	552345	2,51,080	823516	2,98,654
340	552252	1,46,712	552277	1,68,458	552301	1,97,717	552324	2,22,179	552346	2,66,771	823517	3,17,321
360	552253	1,55,343	552278	1,78,368	552302	2,09,348	552325	2,35,248	552347	2,82,465	823518	3,35,986
380	552254	1,63,975	552279	1,88,277	552303	2,20,978	552326	2,48,318	552348	2,98,156	823519	3,54,651
400	552255	1,72,604	552280	1,98,186	552304	2,32,609	552327	2,61,386	552349	3,13,848	823520	3,73,318
420	552256	1,81,235	552281	2,08,095	552305	2,44,239	552328	2,74,456	552350	3,29,540	823521	3,91,984
440	552257	1,89,865	552282	2,18,004	552306	2,55,869	552329	2,87,526	552351	3,45,234	823522	4,10,649
460	552258	1,98,496	552283	2,27,915	552307	2,67,499	552330	3,00,595	552352	3,60,925	823523	4,29,315
480	552259	2,07,124	552284	2,37,824	552308	2,79,131	552331	3,13,664	552353	3,76,618	823524	4,47,980
500	552260	2,15,755	552285	2,47,733	552309	2,90,762	552332	3,26,734	552354	3,92,311	823525	4,66,647

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.
For Nuts please follow the prices on Page no. 71



Stud Bolt - Inch without nuts

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	552375	2,480								
2 3/4	552376	2,890	552388	4,589						
3	552377	3,298	552389	5,202	552404	7,590				
3 1/2	552378	3,707	552390	5,816	552405	8,561	823540	11,752		
4	552379	4,115	552391	6,429	552406	9,532	823541	13,079	823545	16,945
4 1/2	823526	4,525	552392	7,042	552407	10,502	552421	14,409	823546	18,683
4 3/4	823527	4,933	552393	7,655	552408	11,473	552422	15,737	823547	20,419
5	552382	5,341	552394	8,269	552409	12,444	552423	17,066	823548	22,156
5 1/2	823528	5,751	552395	8,881	552410	13,414	552424	18,394	552438	23,895
6	552384	6,159	552396	9,494	552411	14,385	552425	19,722	552439	25,631
6 1/2	823529	6,977	823532	10,976	552412	16,328	552426	21,716	552440	29,104
7	823530	7,385	552398	11,590	552413	16,991	552427	23,708	552441	30,843
7 1/2	823531	7,794	823533	12,253	823537	17,962	552428	24,781	552442	32,887
8			552400	13,532	552415	18,882	552429	26,059	823549	35,441
8 1/2			823534	14,194	823538	19,802	552430	28,000	823550	37,485
9			823535	14,808	552417	21,692	823542	29,941	552445	39,528
9 1/2			823536	15,472	823539	22,611	823543	31,270	552446	40,550
10							823544	32,547	823551	44,127
10 1/2									823552	45,660
11									823553	47,703
11 1/2									823554	49,236

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.
For Nuts please follow the prices on Page no. 71



Stud Bolt - Inch without nuts

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	823555	24,619						
4 3/4	823556	26,662	823570	33,490				
5	823557	29,217	823571	36,045				
5 1/2	823558	31,260	823572	38,600	823587	58,712		
6	823559	33,304	823573	41,665	823588	62,801	823614	72,415
6 1/2	815620	37,902	552476	47,286	823589	70,975	823615	82,122
7	815621	39,946	823574	49,840	823590	75,062	823616	86,722
7 1/2	815622	41,990	552478	52,396	823591	79,661	823617	91,319
8	815623	45,567	552479	58,016	823592	87,836	823618	1,01,029
8 1/2	812570	48,633	815624	61,081	823593	91,924	823619	1,05,626
9	815627	50,676	815625	63,125	823594	96,012	823620	1,10,736
9 1/2	823560	53,232	823575	66,192	823595	1,00,610	823621	1,15,334
10	823561	57,320	823576	71,812	552504	1,08,785	823622	1,24,532
10 1/2	823562	59,873	823577	74,365	823596	1,12,872	823623	1,29,641
11	823563	61,917	552485	77,432	823597	1,15,428	823624	1,34,239
11 1/2	823564	63,961	823578	79,985	552507	1,17,982	823625	1,38,838
12	823565	68,560	823579	85,352	823598	1,26,157	823626	1,49,057
12 1/2	823566	70,603	823580	88,161	823599	1,30,244	823627	1,54,165
13	823567	72,904	823581	90,972	823600	1,34,332	823628	1,59,021
13 1/2	823568	77,502	823582	96,593	823601	1,42,507	823629	1,68,729
14	823569	79,800	823583	99,403	823602	1,46,595	823630	1,73,582
14 1/2			823584	1,02,213	823603	1,50,682	823631	1,78,436
15			823585	1,05,023	823604	1,54,771	823632	1,83,291
15 1/2			823586	1,10,643	823605	1,62,434	823633	1,92,488
16					823606	1,66,522	823634	1,97,342
16 1/2					823607	1,70,610	823635	2,02,195
17					823608	1,74,698	823636	2,07,050
17 1/2					823609	1,82,872	823637	2,16,758
18					823610	1,86,961	823638	2,21,611
18 1/2					823611	1,91,047	823639	2,26,466
19					823612	1,99,222	823640	2,36,174
19 1/2					823613	2,03,310	823641	2,41,027
20							823642	2,45,882
20 1/2							823643	2,50,735
21							823644	2,59,932
22							823645	2,69,641

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.

For Nuts please follow the prices on Page no. 71

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Stud Bolt - Inch without nuts

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	823646	96,336	823677	1,11,340				
7	823647	1,01,956	823678	1,17,471				
7 1/2	823648	1,07,577	823679	1,24,113				
8	823649	1,18,819	823680	1,37,398				
8 1/2	823650	1,24,439	823681	1,43,529	823708	1,64,106		
9	823651	1,30,059	823682	1,50,171	823709	1,71,260	823737	2,19,754
9 1/2	823652	1,35,679	552593	1,56,814	823710	1,78,925	823738	2,29,461
10	823653	1,47,431	823683	1,69,587	823711	1,93,742	823739	2,48,877
10 1/2	823654	1,53,051	823684	1,76,230	823712	2,01,405	823740	2,58,585
11	823655	1,58,671	823685	1,82,361	823713	2,08,559	823741	2,68,293
11 1/2	823656	1,64,293	823686	1,89,003	823714	2,16,223	823742	2,78,001
12	823657	1,75,533	823687	2,02,034	823715	2,31,296	823743	2,97,417
12 1/2	823658	1,81,154	823688	2,08,420	823716	2,38,705	823744	3,07,124
13	823659	1,86,774	823689	2,15,061	823717	2,46,114	823745	3,16,833
13 1/2	823660	1,97,760	823690	2,28,092	823718	2,60,932	823767	3,36,249
14	823661	2,03,125	823691	2,34,477	823719	2,68,339	823768	3,45,956
14 1/2	823662	2,08,745	552603	2,40,865	823720	2,75,748	823748	3,55,664
15	823663	2,14,365	823692	2,47,251	823721	2,83,158	823749	3,65,372
15 1/2	823664	2,25,605	823693	2,61,558	815626	2,98,485	823750	3,80,701
16	823665	2,31,226	823694	2,67,945	823722	3,05,638	823751	3,90,410
16 1/2	823666	2,36,847	823695	2,74,331	823723	3,12,792	823752	4,00,117
17	823667	2,42,723	823696	2,80,719	823724	3,20,202	552667	4,09,570
17 1/2	823668	2,53,197	823697	2,93,747	823725	3,35,018	823753	4,28,730
18	823669	2,57,795	823698	3,00,390	823726	3,42,426	823754	4,38,437
18 1/2	823670	2,64,438	823699	3,06,778	552640	3,49,836	823755	4,47,890
19	823671	2,76,700	823700	3,19,806	823727	3,64,653	823756	4,66,796
19 1/2	823672	2,82,321	823701	3,26,448	823728	3,72,061	823757	4,76,248
20	823673	2,87,942	823702	3,33,090	823729	3,79,472	823758	4,85,445
20 1/2	823674	2,93,562	823703	3,39,733	823730	3,86,879	823759	4,95,153
21	823675	3,04,802	823704	3,52,506	823731	4,01,695	823760	5,14,570
22	823676	3,16,043	823705	3,65,791	823732	4,17,025	823761	5,33,474
23			823706	3,85,207	823733	4,39,251	823762	5,54,422
24			823707	3,98,237	823734	4,54,069	823763	5,81,249
25					823735	4,76,805	823764	6,09,605
26					823736	4,91,112	823765	6,28,510
27							823766	6,57,379

1. Studbolt Specification : Generally conforming to ASTM A193 / Grade B7.
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 be given for unbrako products which are plated by users or by outside platers, 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.

Note: Above prices are only for the Fully Stud Bolt without Nuts.

For Nuts please follow the prices on Page no. 71

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST



Marking*

Heavy Hex Nuts (ASTM A194 GR2H)

Metric

Size	Part No.	₹ Price/100 Pcs	Box Quantity
M12	551700	1,570	200
M16	270001	2,960	150
M18	270002	3,870	100
M20	270003	5,663	75
M22	270004	7,052	50
M24	270005	9,777	50
M27	270006	14,050	25
M30	270007	18,164	25
M33	270008	23,881	20
M36	270009	31,269	10
M39	270010	39,891	10
M42	270011	51,857	8
M45	270012	63,622	5
M48	270013	77,623	5
M52	270014	1,28,155	4
M56	270015	1,45,916	4

Inch

Size	Part No.	₹ Price/100 Pcs	Box Quantity
1/2"	470001	1,607	200
5/8"	470002	2,905	125
3/4"	470003	4,733	75
7/8"	470004	7,268	50
1"	470005	10,394	30
1 1/8"	470006	14,484	25
1 1/4"	470007	20,058	15
1 3/8"	470008	26,023	15
1 1/2"	470009	33,439	10
1 5/8"	470010	41,366	8
1 3/4"	470011	52,089	6
1 7/8"	470012	61,546	6
2"	470013	1,25,902	5
2 1/4"	812801	1,47,056	5

1. Nut Specification : Generally conforming to ASTM A194 / Grade 2H
2. Note : Prices for ASTM Grade 2HM, 4, 7, L43, B16, B8, B8M. Check availability in stock at the time of order.
3. 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.
4. Products can be supplied with Yellow Zinc Cr6+, Xylan® PTFE, Hot Dip Galvanized and Electro Galvanized Plating. Prices available on request.

Recommended Retail Prices in Rupees per 100 Pieces Exclusive of GST

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

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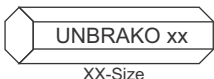
Comparison of Different Strength Grades

SAE	B.S.	IS 1.S.D. DIN	Ultimate Tensile Strength			Yield Strength Min.		Hardness		
			Tonnes/In ² (Kgf/mm ²)	Newtons/mm ² Min. (Kgf/mm ²)	Pounds/In ² Min. (Kgf/mm ²)	Newtons/mm ² Min. (Kgf/mm ²)	Pounds/In ² Min. (Kgf/mm ²)	HBW	HRb	HRc
		4.6		400 (40.8)		240 (24.5)		114 / 238	67 / 99.5	
Grade 1					60,000 (42.3)		36,000 (25.4)	(121 / 241)	70 / 100	
		4.8		420 (42.8)		340 (34.7)		124 / 238	71 / 99.5	
		5.6		500 (51.0)		300 (30.6)		147 / 238	79 / 99.5	
Grade 2					74,000 (52.1)		57,000 (40.2)	(154 / 241)	80 / 100	
		5.8		520 (53.0)		420 (42.8)		152 / 238	82 / 99.5	
	P		35 / 45 (55.2 / 71.0)					152 / 240		
		6.8		600 (61.2)		480 (48.9)		181 / 238	89 / 99.5	
	R		45 / 55 (71.0 / 86.8)					201 / 285		
	S		50 / 60 (78.9 / 94.7)					223 / 310		(20 / 33)
		8.8		800 ≤ M16 800 ≥ M16 (81.6) (84.6)		640 (65.2) 660 (67.3)		238 / 304 242 / 319		22 / 32 23 / 34
Grade 5					1,20,000 (84.6)		92,000 (64.8)	(266) / (318)		25 / 34
	T		55 / 65 (86.8 / 102.6)							(24/36)
	U		60 / 70 (94.7 / 110.5)							(28/36)
	V		65 / 75 (102.6 / 118.4)							(31/40)
Grade 8					1,50,000 (105.7)		1,30,000 (91.6)	(311) / (362)		33 / 39
		10.9		1,040 (106.0)		840 (95.8)		304 / 362		32 / 39
	W		70 / 80 (110.5 / 126.3)							(33 / 41)
	X		75 / 85 (118.4 / 134.2)							(37 / 44)
		12.9		1,220 (124.4)		1100 (112.0)		366 / 412		39 / 44
	Y		80 / 90 (126.3 / 142.0)							(39 / 46)
	Z		100 min (157.8)							(47)

Note:

- 1Kgf=9.81 Newtons 1Kgf/mm²=1421.7 Psi
- Values in brackets are approximate conversions

How to Identify Unbrako Products

PRODUCT		Marking
Socket Head Cap Screw	Metric : M5 to M42	
	Inch : 1/4" to 1" BSW	
Socket Countersunk Cap Screw M5 & M24		
Socket Low Head Cap Screw M5 to M20		
Socket Head Shoulder Screw M6 to M24		
Button Head Socket Screw M5 to M12		
Flange Button Head Socket Screw M5 to M10		
Hexagon Wrench Set	Metric : 4 A/F to 32 A/F	
	Inch : 5/32" A/F to 3/4" A/F	
Durluk Bolt & Nut M6 to M20		 
Hex Head Bolt/Screw	Metric : M04 to M56	 
	Inch : All Sizes	
Hex Nut	Metric : M6 to M72,	 
	Inch : 1/4" to 1 1/2" Grade 8 - UNC	
Nylock Nut M6 to M24 Grade : 8 and 10		 
Lock Nut M10 to M30		 
Hardened Washer (Type A) M12 to M56		
High Strength Structural Bolt M16 to M36		 
High Strength Structural Nut M16 to M36		 
High Strength Structural Washer		
Track Shoe Bolt and Square Nut	Metric : M16 to M27	 
	Inch : 5/8" to 1"	
Direct Tension Indicator Washer M16 to M27		
Stainless Steel Socket Head Cap Screw M5 to M30		 
Stainless Steel Hex Head Bolt/Screws M5 to M30 SS-304/316		 
Stainless Steel Hex Nut M5 to M30 SS-304/316		 
Stainless Steel Plain Washer		 
Studbolt and Nuts	Metric : M12 to M56	 
	Inch : 1/2" to 2 1/4"	

According to stamping area on the Product either Unbrako or U130 marking will be used

Note : "X" marking on SHCS is the internal coding for product traceability, it can be changed with any alphanumeric.

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 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 / CADMIUM	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 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 (SST) (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	500 Hrs. to 1000 Hrs. Subjected to coating Thickness	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.

ONE-OF-A-KIND FASTENER APP IN THE INDUSTRY.

**INVALUABLE
RESOURCE**
at Your Fingertips





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