

NABL Certified Lab

The NABL ISO/IEC 17025:2005 certified lab facilitates in maintaining consistently high quality. The fasteners go through strict quality checks at every stage of the manufacturing process. Unbrako inspection facilities have state-of-the-art equipment for testing both physical and metallurgical aspects of fasteners, to meet the needs of the most demanding applications.



International Certifications

The Unbrako production facilities are ISO 9001, ISO/TS 16949, ISO 14001, and BS OHSAS 18001 Certified. Our fasteners meet or exceed International Standards like DIN, ISO, ASTM, IS, BS etc. We have expertise not only in standard products, but also in special fasteners made as per customer design or as per specific project requirement.


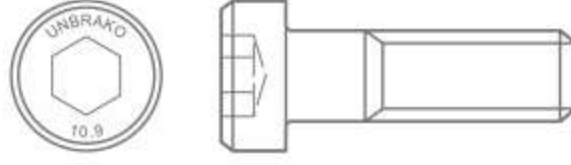
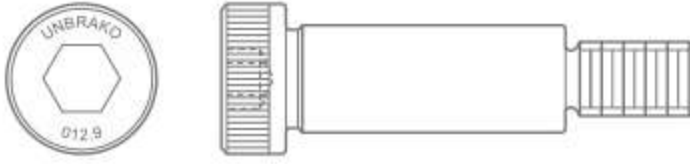
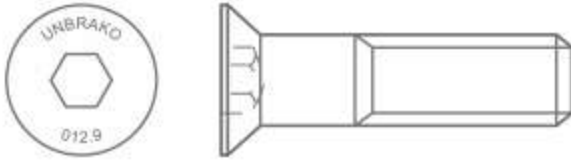
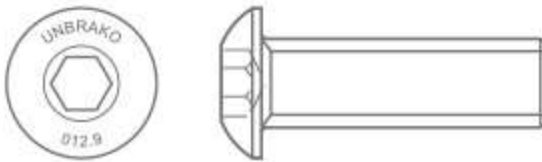
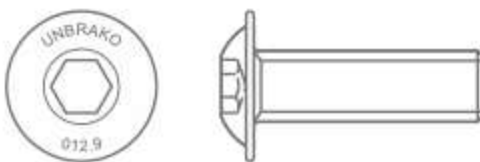
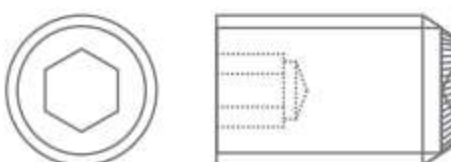
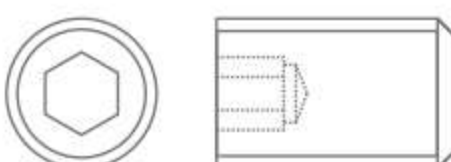
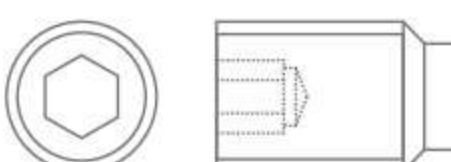
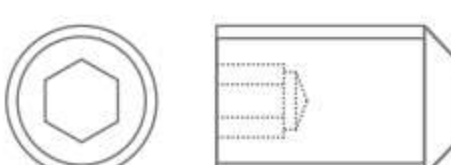
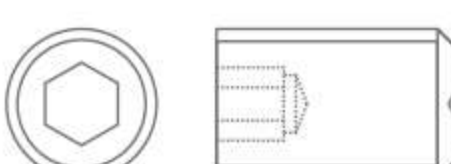
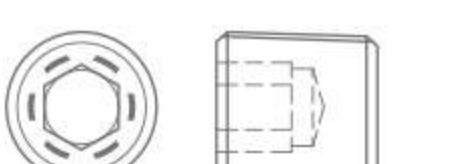



Specialized Coatings


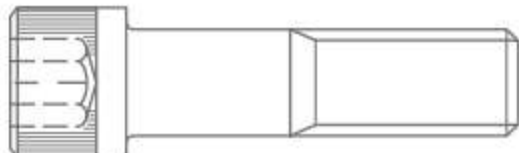

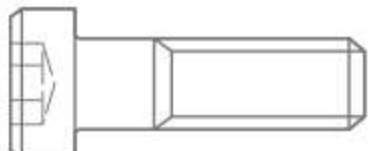



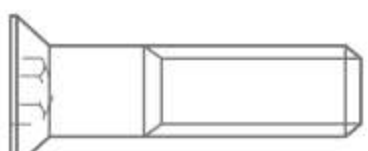

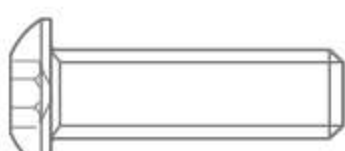



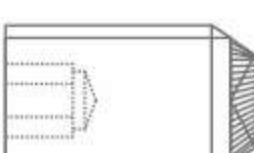

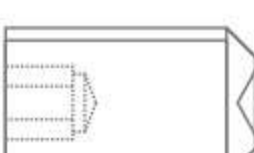




Unbrako excels in a variety of coatings or finishes e.g. Hot-Dip Galvanizing, Mechanical Galvanizing, Zinc/ Zinc-Nickel Electroplating, Geomet®, Delta Dorken®, Unbrako Wiscoat, PTFE, etc. These coatings are done in-house and are designed to provide the required protection in different environments.



SOCKET SCREWS

Metric	Image	Size	Grade	EQUIVALENT STANDARDS		
				Dimensional ASME	ISO	Material ASTM
<input type="checkbox"/> Socket Head Cap Screw		M1.6 to M64	12.9	B18.3.1M	4762	A574M
<input type="checkbox"/> Socket Low Head Cap Screw		M4 to M20	10.9	as per Unbrako Specification		
<input type="checkbox"/> Socket Head Shoulder Screw		M6 to M24	012.9	B18.3.3M	Unbrako h8	-
<input type="checkbox"/> Countersunk Socket Head Screw		M3 to M20	012.9	B18.3.5M	10642	F835M
<input type="checkbox"/> Button Head Socket Screw		M3 to M12	012.9	B18.3.4M	7380	F835M
<input type="checkbox"/> Flange Button Head Socket Screw		M3 to M10	012.9	as per Unbrako Specification		F835M
<input type="checkbox"/> Socket set screws		M3 to M20	45H	B18.3.6M	4029	F912M
<input type="checkbox"/> Knurled Cup Point		M6 to M12	45H	B18.3.6M	4026	F912M
<input type="checkbox"/> Flat Point		M3 to M20	45H	B18.3.6M	4028	F912M
<input type="checkbox"/> Dog Point (Dog/Half Dog)		M3 to M12	45H	B18.3.6M	4027	F912M
<input type="checkbox"/> Cone Point		M3 to M20	45H	B18.3.6M	4029	F912M
<input type="checkbox"/> Plain Cup Point		M8 to M22	-	as per Unbrako Specification		
<input type="checkbox"/> Taper Pressure Plug						

SOCKET SCREWS

Inch		Size Range		Tensile psi / Hardness	EQUIVALENT STANDARDS		Material ASTM	
		Diameter	Thread		ANSI/ASME	BS		
<input type="checkbox"/>	Socket Head Cap Screw	 	#0 to 2	1936 & 1960 UNC/UNF/BSW	190,000 ≤ 1/2 180,000 > 1/2	B18.3	2470	A574
<input type="checkbox"/>	Socket Low Head Cap Screw	 	#8 to 1/2	UNC/UNF	170,000	as per Unbrako specification		F835
<input type="checkbox"/>	Socket Head Shoulder Screw	 	1/4 to 2	UNC	HRC 36-43	B18.3	2470	-
<input type="checkbox"/>	Countersunk Socket Head Screw	 	#4 to 1 1/2	UNC/UNF	160,000	B18.3	2470	F835
<input type="checkbox"/>	Button Head Socket Screw	 	#10 to 5/8	UNC/UNF	160,000	B18.3	2470	F835
<input type="checkbox"/>	Flange Button Head Socket Screw	 	#8 to 1/2	UNC/UNF	as per Unbrako specification		2470	F835
<input type="checkbox"/>	Socket set screws	 	#4 to 5/8	UNC/UNF	HRC 45-53	B18.3	2470	F912
<input type="checkbox"/>	Knurled Cup Point	 						
<input type="checkbox"/>	Plain Cup Point	 	#0 to 5/8	UNC/UNF	HRC 45-53	B18.3	2470	F912
<input type="checkbox"/>	Taper Pressure Plug	 	3/4 to 7/8	--	--	as per Unbrako specification		



PINS and TOOLS

PINS

Metric

		Size	Hardness	Standard
<input type="checkbox"/> Dowel Pin		2mm to 16mm	HRC 50-58 (core)	as per Unbrako spec.
<input type="checkbox"/> Sel-lok Pin		1.5mm to 12mm	HV 440 to 560	ISO 8752

Inch

		Size	Hardness	Standard
<input type="checkbox"/> Dowel Pin		1/8 to 1	HRC 50-58 (core)	as per Unbrako spec.
<input type="checkbox"/> Sel-lok Pin		1/16 to 1/2	as per Unbrako spec.	ASME B18.8.2
<input type="checkbox"/> Pull-out Dowel Pin		1/8 to 1	HRC 60 min (surface)	as per Unbrako spec.



WRENCHES and TOOLS

Metric / Inch

		Size	Hardness	Standard
<input type="checkbox"/> Hexagon Wrench - Metric (long & short arm)		0.71mm to 32mm	as per Unbrako Spec.	ISO 2936
<input type="checkbox"/> Hexagon Wrench - Inch (long, 6" & short arm)		1/16 to 1	as per Unbrako Spec.	BS 2470, ASME B18.3
<input type="checkbox"/> Hex Driver - Metric		1.5mm to 5.0mm	HRC 40-43	as per Unbrako Specification

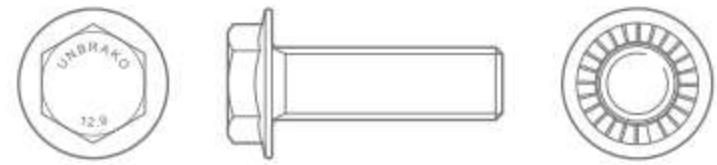
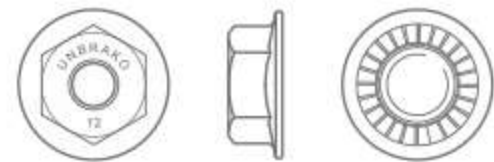
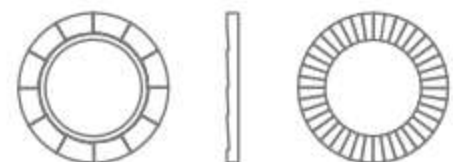


TOOL SETS

A range of elegantly engineered folded wrench sets and wallet sets are available with distinctive colored casings for Metric & Inch series.

DURLOK[®] and HEX BOLTS

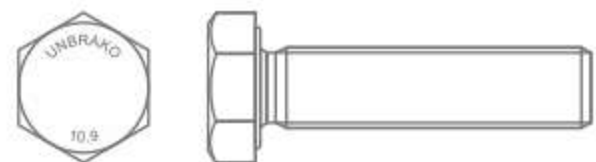
DURLOK[®] - Self locking, Anti Vibration Fasteners

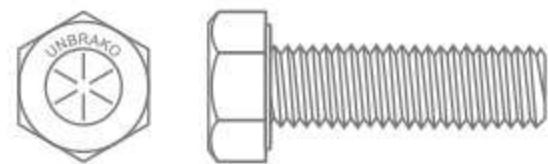
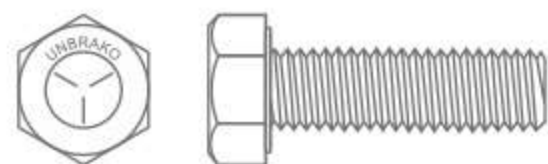
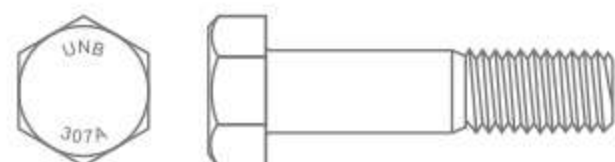
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<input type="checkbox"/> Durlok Bolt		M6 to M20	12.9	1220 N/mm ² min	as per Unbrako specification
<input type="checkbox"/> Durlok Nut		M6 to M20	12	Hardness HRC 28 to 36	
<input type="checkbox"/> Durlok Washer		M6 to M20		HRC 47 to 52	
<input type="checkbox"/> Durlok Safety Washer		M6 to M20		HRC 47 to 52	

NOTE: 1. Durlok Bolts & Nuts do not require a washer. 2. Durlok washers are designed for use with standard hex bolts & nuts. Durlok washers are always used in pairs & must not be used with other flat washers.






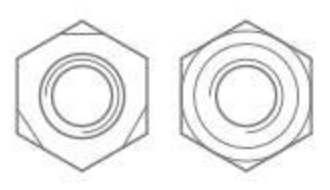
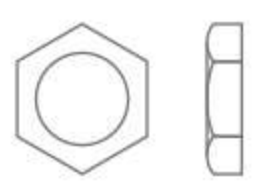


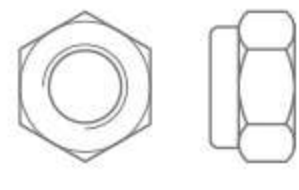
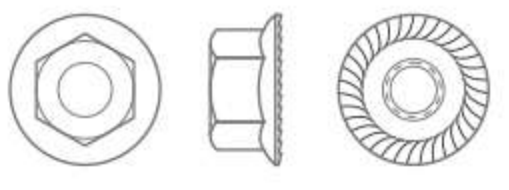
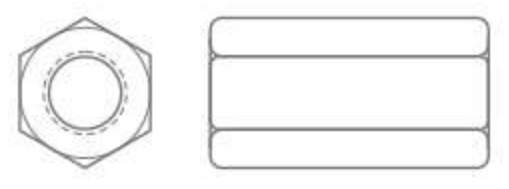
HEX BOLTS / SCREWS

Metric		Size	Property Class	Tensile Strength	Standard
<input type="checkbox"/> Hex Head Bolt/Screw		M4 to M80	10.9	1040N/mm ² min	ISO 4017 (Full Thread) ISO 4014 (Half Thread)

Inch		Size	Grade	Tensile Strength	Standard
<input type="checkbox"/> Hex Cap Screw		1/4 to 2	8	150,000 psi min	ASME B18.2.1
<input type="checkbox"/> Hex Cap Screw		1/4 to 2	5	120,000 psi min (1/4 to 1) 105,000 psi min (over 1 to 1-1/2)	ASME B18.2.1
<input type="checkbox"/> Hex Bolt		1/4 to 1	A	60 ksi min	ASTM A307 / ASME B18.2.1



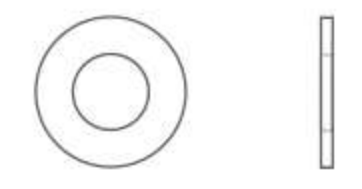
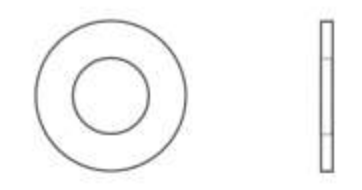


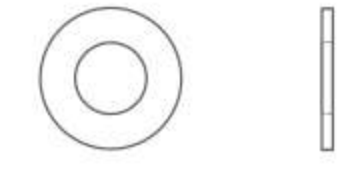
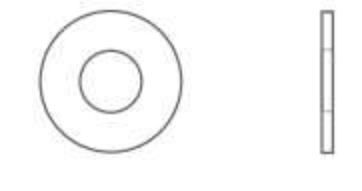

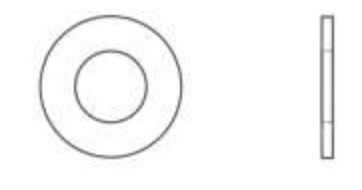
HEX NUTS

Metric		Size	Property Class	Standard
<input type="checkbox"/> Hex Nut		M6 to M80	8 & 10	ISO 4032
<input type="checkbox"/> Nylock Nut		M6 to M20 (Gr. 8) M10 to M24 (Gr. 10)	8 & 10	DIN 982
<input type="checkbox"/> Nylock Nut		M6 to M20 (Gr. 8) M10 to M24 (Gr. 10)	8 & 10	DIN 985
<input type="checkbox"/> Hex Weld Nut		M6 to M12	8	DIN 929
<input type="checkbox"/> Hex Lock Nut		M3 to M64		DIN 439, A563
Inch		Size	Grade	Standard
<input type="checkbox"/> Hex Nut		1/4 to 2	8	ASME B18.2.2
<input type="checkbox"/> Hex Nut		1/4 to 2	5	ASME B18.2.2
<input type="checkbox"/> Nylock Nut		#8, #10 (NM Pattern) 1/4 to 3/4 (NE Pattern)	2	ASME B18.16.6
<input type="checkbox"/> Hex Serrated Flange Nut		1/4 to 3/4	-	ASME B18.16.4
<input type="checkbox"/> Hex Coupling Nut		1/4 to 3/4	Hardness Rockwell B68 - C32	ASME B18.2.2



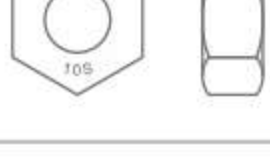

WASHERS

Metric		Size	Hardness	Standard
<input type="checkbox"/> Square Section Spring Washer		3mm to 39mm	HV 430 to 530	DIN 7980
<input type="checkbox"/> Flat Section Spring Washer		3mm to 39mm	HV 430 to 530	DIN 127 B
<input type="checkbox"/> Hardened Washer		12mm to 30mm	HV 300 min	IS 2016
<input type="checkbox"/> Hardened Steel Washer		12mm to 56mm	Rockwell 26 to 45 (HDG) Rockwell 38 to 45 (Coated)	ASTM F436M

Inch		Size	Tensile Strength	Standard
<input type="checkbox"/> USS Plain Washer		1/4 to 1 1/2	HRC 38-45	ASME B18.21.1-A
<input type="checkbox"/> SAE Plain Washer		1/4 to 2	HRC 38-45 (Coated) HRC 26-45 (HDG)	ASME B18.21.1-A
<input type="checkbox"/> Spring-Lock Washer		1/4 to 1 1/2	HRC 38-46	ASME B18.21.1
<input type="checkbox"/> Hardened Washer		1/4 to 1 3/8	HRC 38-45 (Coated) HRC 26-45 (HDG)	ASTM F436



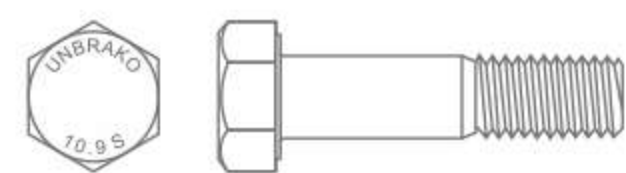
STRUCTURAL ASSEMBLIES

Metric		Size	Property Class	Standard
<input type="checkbox"/> System HR Structural Bolt		M12 to M36	8.8 / 10.9	BS EN 14399-3
<input type="checkbox"/> System HR Pre-Load Nut		M12 to M36	8 / 10	BS EN 14399-3
<input type="checkbox"/> System HV Structural Bolt		M12 to M36	10.9	BS EN 14399-4
<input type="checkbox"/> System HV Pre-Load Nut		M12 to M36	10	BS EN 14399-4
<input type="checkbox"/> Plain Non-Chamfered Washer Plain Chamfered Washer		M12 to M36	HV 300 to 370	BS EN 14399-5 BS EN 14399-6
<input type="checkbox"/> Tension Control Structural Bolt*		M12 to M30	10.9	BS EN 14399-10
<input type="checkbox"/> Pre-Load Nut		M12 to M30	10	BS EN 14399-10 (h=d)
<input type="checkbox"/> Non Pre-Load Structural Bolt		M12 to M36	4.6, 5.6, 6.8, 8.8, 10.9	BS EN 15048-1, 2
<input type="checkbox"/> Non Pre-Load Structural Nut		M12 to M36	4, 5, 6, 8, 10, 12	BS EN 15048-1, 2
<input type="checkbox"/> High-Strength Structural Bolt		M12 to M36	8.8	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical
<input type="checkbox"/> Structural Nut		M12 to M36	8	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical
<input type="checkbox"/> Structural Washer		M12 to M36	35-45HRC	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical

STRUCTURAL ASSEMBLIES

Metric

Heavy Hex Structural Bolt



Size

M16 to M36

Property Class

10.9S

Standard

IS 3757

Heavy Hex Nut



M16 to M36

10S / 8S

IS 6623

Structural Washer



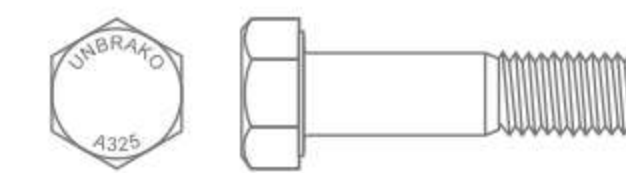
M16 to M36

35-45 HRC (Plain)
26-45 HRC min (HDG)

IS 6649

Inch

Heavy Hex Structural Bolt



Size

1/2 to 1 1/4

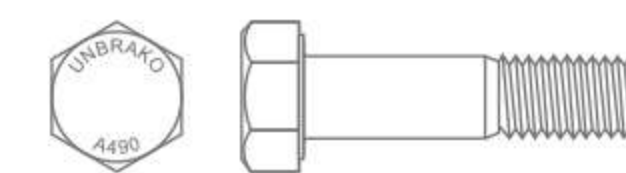
Tensile Strength/Hardness

120,000 psi (1/2 to 1 dia)
105,000 psi (1 1/8 to 1 1/2 dia)

Standard

ASTM A325

Heavy Hex Structural Bolt



1/2 to 1 1/4

150,000 - 173,000 psi

ASTM A490

Heavy Hex Nuts
Grade DH



1/4 to 2

C24 - C38

ASTM A563

Heavy Hex Nut
Grade 2H



1/4 to 2

24-35 HRC

ASTM A194 2H

Hardened Washer

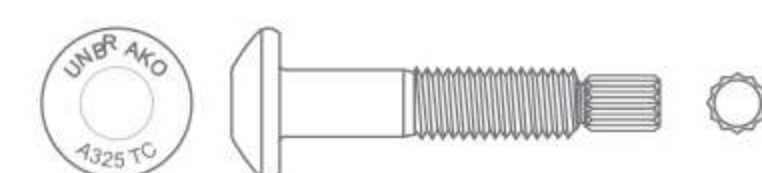


1/4 to 1 3/8

38-45 HRC (coated)
26-45 HRC (HDG)

ASTM F436

Tension Control Structural Bolt*

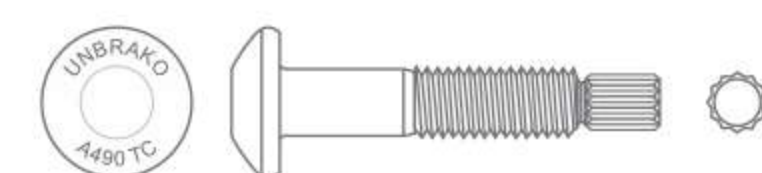


5/8 to 1 1/8

120,000 psi (1/2 to 1 dia)
105,000 psi (1 1/8 to 1 1/2 dia)

ASTM F1852

Tension Control Structural Bolt*



1/2 to 1 1/8

150,000 - 173,000 psi

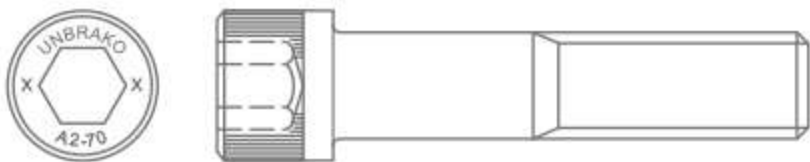
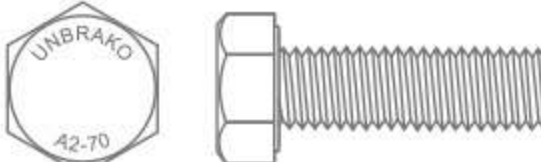
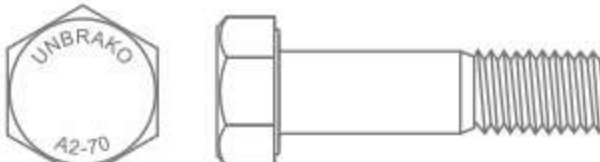

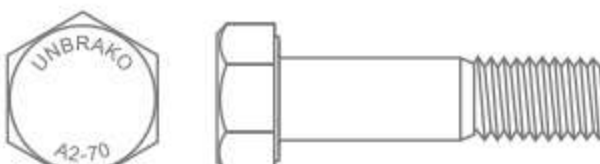

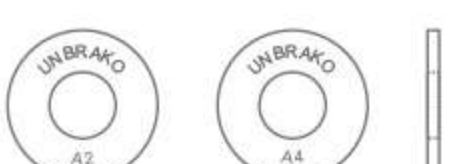



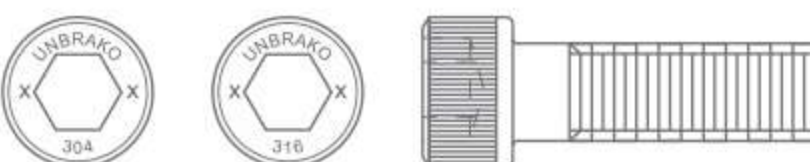
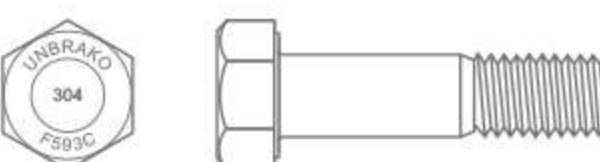

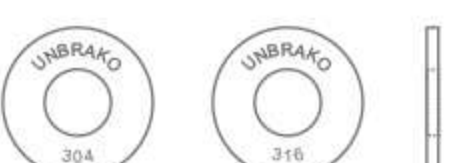
ASTM F2280

*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.

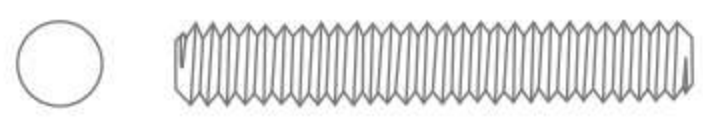
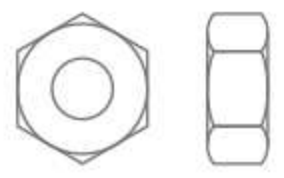


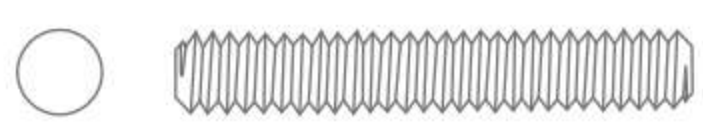
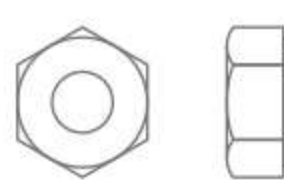
STAINLESS STEEL

Metric		Size	Property Class	Standards
<input type="checkbox"/> Socket Head Cap Screw		M3 to M30	A2-70/80, A4-70/80	DIN 912 / ISO 4762
<input type="checkbox"/> Hex Head Screw (Full Thread)		M3 to M30	A2-70/80, A4-70/80	DIN 933 / ISO 4017
<input type="checkbox"/> Hex Head Bolt (Partial Thread)		M4 to M30	A2-70/80, A4-70/80	DIN 931 / ISO 4014
<input type="checkbox"/> Hex Nut		M3 to M30	A2-70/80, A4-70/80	DIN 934 / ISO 4032
<input type="checkbox"/> Non Pre-Load Structural Bolt		M12 to M36	A2-50, A4-50, A2-70, A4-70, A2-80, A4-80	BS EN 15048-1, 2
<input type="checkbox"/> Non Pre-Load Structural Nut		M12 to M36	A2-50, A4-50, A2-70, A4-70, A2-80, A4-80	BS EN 15048-1, 2
<input type="checkbox"/> Plain Washer		M3 to M64	A2, A4	DIN 125 A
<input type="checkbox"/> Flat-section Spring Washer		M3 to M36	A2, A4	DIN 127 B
<input type="checkbox"/> Square-section Spring Washer		M3 to M36	A2, A4	DIN 7980
<input type="checkbox"/> Threaded Rod		M3 to M36	A2-70/80, A4-70/80	DIN 975
Inch		Size	Grade	Standards
<input type="checkbox"/> Socket Head Cap Screw		3/16 to 1	F837B & F837E	ASME B18.3 / F837
<input type="checkbox"/> Hex Head Bolt/Screw		1/4 to 1	F593C, F593D & F593G, F593H	ASME B18.2.1 / ASTM F593
<input type="checkbox"/> 304, 316 Hex Nut		1/4 to 1 1/2	F594C, F594D & F594G, F594H	ASME B18.2.2 / F594
<input type="checkbox"/> Plain Washer		1/4 to 1	304, 316	ANSI B18.21.1

Stainless Steel Fasteners also available in High-Tensile A4-90 and A4-100 grades.

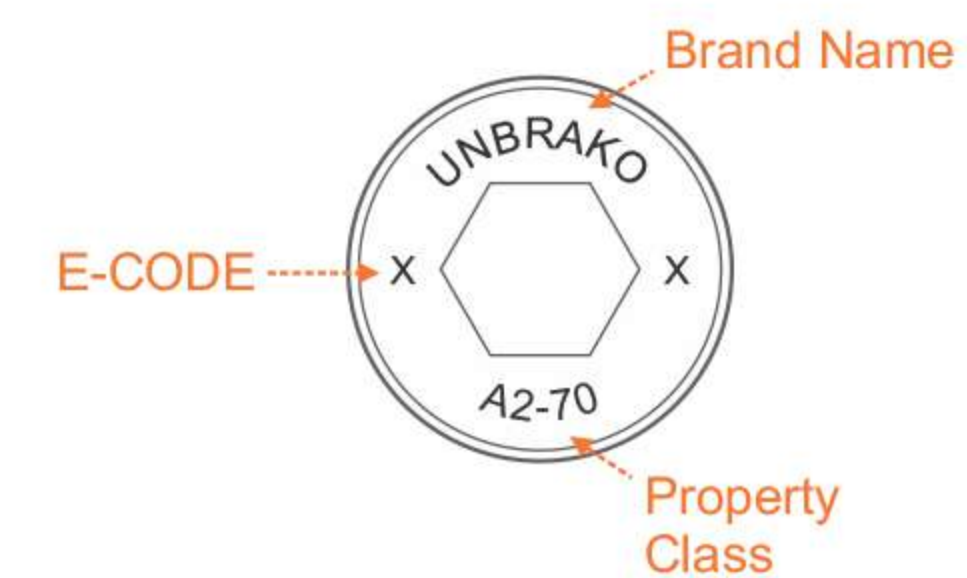


Metric		Size	Property Class	Standards
□ Stud Bolt		M12 to M56	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193M, ASTM A320M
□ Nut		M12 to M56	2H, 2HM, 4, 7, 8, 8M	ANSI B18.2.4.6M, A194M

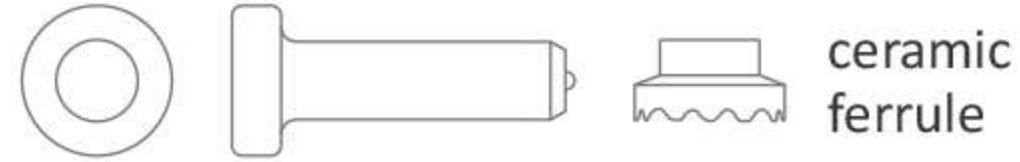
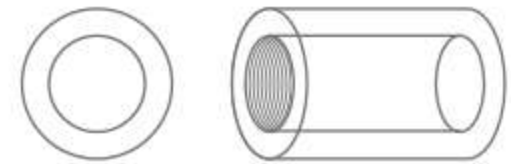
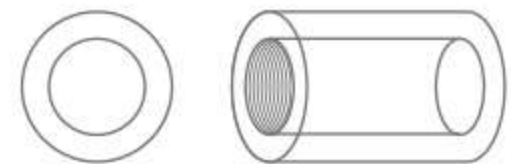
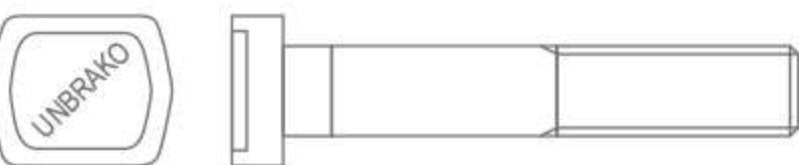

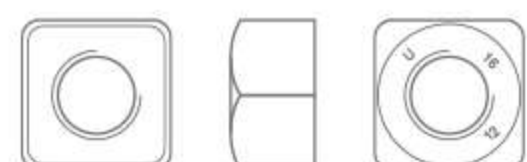






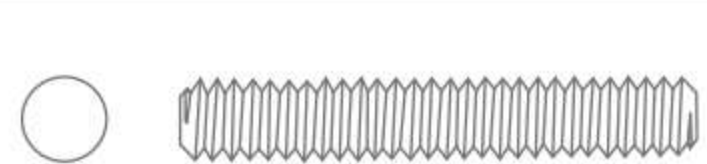
Inch		Size	Grade	Standards
□ Stud Bolt		1/2 to 2 1/4	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193, ASTM A320
□ Nut		1/2 to 2	2H, 2HM, 4, 7, 8, 8M	ASTM A194



Unbrako's patented E-code™ head making system is the ultimate in fastener traceability. It allows tracing of test records to specific production batches. Unique letters and numbers in the head marking ensure 100% traceability, even when the box is discarded. This is the most reliable system in fastener traceability today.



SPECIALS

Metric		Size	Property Class	Standards
<input type="checkbox"/> Arc Welding Stud / Shear Connector ^A		M13 to M25	Type SD1,SD2 & Type A, Type B	ISO 13918, AWS D1.1
<input type="checkbox"/> Upset Parallel Threaded Rebar Coupler ^B		12mm to 50mm	as per Unbrako Spec.	ASTM A615, A706, A775, IS 1786, 16172
<input type="checkbox"/> Parallel Threaded Rebar Coupler ^B		12mm to 40mm	as per Unbrako Spec.	ASTM A615, A706, A775, IS 1786, 16172
<input type="checkbox"/> Tee Bolt		M8 to M24	Tensile strength: 1250 Mpa Hardness: HRC 40 to 43	
<input type="checkbox"/> Trackshoe Bolt		M16 to M27	as per Unbrako Specification	
<input type="checkbox"/> Square Nut		M16 to M27	as per Unbrako Specification	
<input type="checkbox"/> Hex Lock Nut		M3 to M64		DIN 439, A563
<input type="checkbox"/> Hex Slotted & Castle Nut		M6 to M48		DIN 935, 937 A563
<input type="checkbox"/> Anchor Plate		M16 to M24	as per Unbrako Specification	
<input type="checkbox"/> Shear Nut		M8 to M16	as per Unbrako Specification	
<input type="checkbox"/> Anti-Theft Bolt		M12 to M16	as per Unbrako Specification	
<input type="checkbox"/> Carriage Bolt		M5 to M20		DIN 603
<input type="checkbox"/> Threaded Bar		M6 to M64	4.6, 5.8, 6.8, 8.8, 10.9, 12.9	DIN 975 / DIN 976

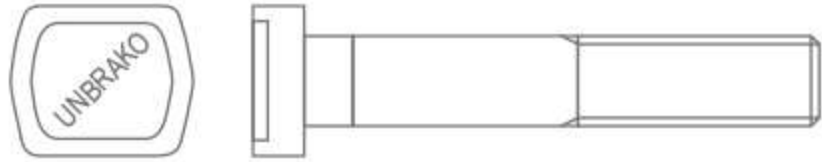
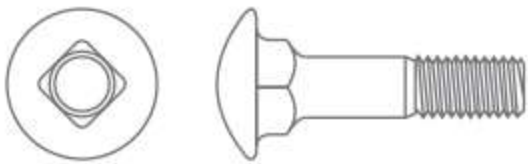


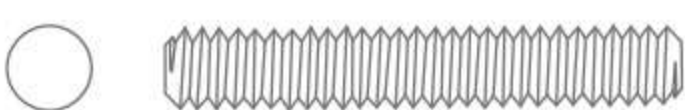



^A **Unbrako Arc Welding Gun**
For Arc welding installation at site
Unbrako Arc Welding gun can be made available for hire/sale.



^B **Rebar - Mobile Preparation Facility**
On large contracts where bar end preparation can be carried out on site, equipment can be made available for hire.

SPECIALS

Inch		Size	Grade	Standards
☐ Tee Bolt		BSW 3/8 to 1	Tensile Strength: 180 ksi	as per Unbrako Spec.
☐ Carriage Bolt		#10 to 1	Grade A	ASTM A307
☐ Trackshoe Bolt		5/8 to 1		as per Unbrako Specification
☐ Square Nut		5/8 to 1		as per Unbrako Specification
☐ Threaded Bar		1/4 to 2	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193
☐ Threaded Bar		1/4 to 2	Grade A	ASTM A307

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

OFFERING A
WORLD OF
ENGINEERED
FASTENERS

