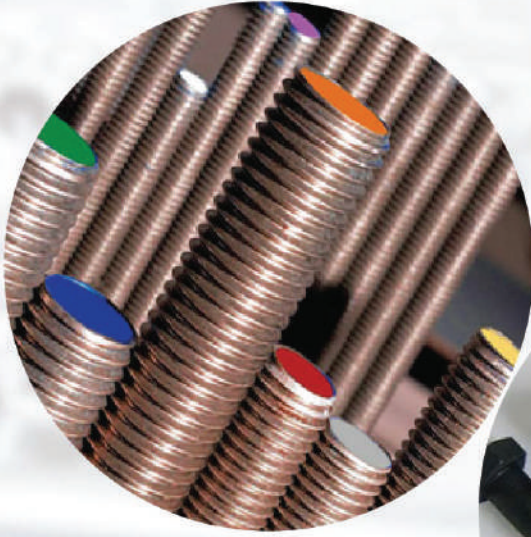




انشيا هاردوير (ش.ذ.م.م.)

Insiya Hardware LLC

IMPORTERS - FASTENERS, GENERAL HARDWARE



Murtaza +971 55 2619589

Tel: +971 4 223 2256, opp. Milano Hotel, Nakheel, Deira, Dubai - U.A.E.

Email: sales@insiyahardware.ae/insiyahw10@outlook.com Web.: www.insiyahardware.ae

HIGH TENSILE FASTENERS

STUD BOLTS

ASTM A193 STUD BOLTS (HIGH-TEMP.)

The ASTM A193 specification covers alloy-steel and stainless steel stud bolts materials for high temperature or high-pressure service. The most common stud bolts materials covered by ASTM A193 are:

- **ASTM A193 B7/ B7M: Alloy steel, AISI 4140/4142 quenched and tempered.**
- **ASTM A193 B8: Class 1 Stainless steel, AISI 304, carbide solution treated.**
- **ASTM A193 B8M: Class 1 Stainless steel, AISI 316, carbide solution treated.**



STUD BOLT AND NUTS

A stud bolt consists of one threaded steel rod and two (matching) hexagonal heavy steel nuts. Stud bolts and nuts are essential components of flanged joints, as they are key to seal flanged joints properly. Stud bolts are available in multiple diameters and lengths combinations, metric and imperial, and in a variety of materials from carbon steel to alloy, stainless and nickel alloys (common grades are: ASTM A193 B7, L7, B8, B8M, B16, The material of the hex steel nuts shall match the material of the threaded rod (generally, stud materials ASTM A193 match with nuts materials ASTM A194).

The most common materials for stud bolts (for flanges) are ASTM A193 (grade B7, B8, B8M, B8T), ASTM A453 (grade 660), ASTM A320 (grade L7, L7M), and ASTM A182 (duplex and super duplex bolting). For aggressive fluids and environments, stud bolts can be coated with Xylan, Xylar and other materials.

HIGH TENSILE HEX NUTS

Standard Specification : ISO 4032

Also Conforms to BS 3692, DIN 934

Material : Medium Carbon Steel

Mechanical Properties : Cl 8, 10

Threads : Conforms to Class 6H of ISO 965 / 2

Surface Finish : Black Oxide, Zinc Plated
Hot Dipped Galvanized



DIMENSIONS

Unit : mm

Nominal Size	Thread Pitch	W		C	H	
		Max	Min	Min	Max	Min
M8	1.25	13	12.73	14.38	6.8	6.44
M10	1.5	16	15.73	17.77	8.4	8.04
M12	1.75	18	17.73	20.03	10.8	10.37
M14	2	21	20.67	23.35	12.8	12.1
M16	2	24	23.67	26.75	14.8	14.1
M20	2.5	30	29.16	32.95	18	16.9
M24	3	36	35	39.55	21.5	20.2
M30	3.5	46	45	50.85	25.6	24.3
M36	4	55	53.8	60.79	31	29.4



HIGH TENSILE BOLTS

Standard Specification : BS 3692

Also conforms to ISO 4014, DIN 931 / 933

Material : High Tensile Steel

Mechanical Properties : BS 3692 / ISO 898 - 1

Strength Grade : 8.8, 10.9

Screw thread : 6g of ISO 965 / 2

Surface Finish : Black Oxide, Zinc Plated
Hot Dipped Galvanized



DIMENSIONS

Unit : mm

NOM SIZE d X p	d1		H		B		C		S		
	Max	Min	Max	Min	Max	Min	Max	Min	<= 125	>125<=200	>200
M6 X 1	6.0	5.82	4.150	3.850	10.0	9.78	11.5	11.05	18		
M8 X 1.25	8.0	5.82	5.650	5.350	13.0	12.73	15	14.38	22		
M10 X 1.5	10.0	9.78	7.180	6.820	17.0	16.73	19.6	18.90	26	32	
M12 X 1.75	12.0	11.73	8.180	7.820	19.0	18.67	21.9	21.10	30	36	49
M14 X 2	14.0	13.73	9.180	8.820	22.0	21.67	25.4	24.49	34	40	53
M16 X 2	16.0	15.73	10.180	9.820	24.0	23.67	27.7	26.75	38	44	57
M18 X 2.5	18.0	17.73	12.215	11.785	27.0	26.67	31.2	30.14	42	48	61
M20 X 2.5	20.0	19.67	13.215	12.785	30.0	29.67	34.6	33.53	46	52	65
M22 X 2.5	22.0	21.67	14.215	13.785	32.0	31.61	36.9	35.72	50	56	69
M24 X 3	24.0	23.67	15.215	14.785	36.0	35.38	41.6	39.98	54	60	73
M27 X 3	27.0	26.67	17.215	16.785	41.0	40.38	47.3	45.63	60	66	79
M30 X 3.5	30.0	29.67	19.260	18.740	46.0	45.38	53.1	51.28	66	72	85
M33 X 3.5	33.0	32.61	21.260	20.740	50.0	49.38	57.7	55.80	72	78	91
M36 X 4	36.0	35.61	23.260	22.740	55.0	54.26	63.5	61.31	78	84	97
M39 X 4	39.0	38.61	25.260	24.740	60.0	59.26	69.3	66.96	84	90	103
M42 X 4	42.0	41.61	26.260	25.740	65.0	64.26	75.1	72.61	90	96	109
M45 X 4.5	45.0	44.61	28.260	27.740	70.0	69.26	80.8	78.26	96	102	115
M48 X 5	48.0	47.61	30.260	29.740	75.0	74.26	86.6	83.91	102	108	121
M52 X 5	52.0	51.54	33.210	32.690	80.0	79.26	92.4	89.56	110	116	129

HARDENED WASHERS

Standard Specification : ASTM F 436M

Material : Medium Carbon Steel

Hardness : Black Washer 38 ~45
HRC, HDG Washer 26 ~45
HRC

Surface Finish : Black, Zinc Plated Hot
Dipped Galvanized

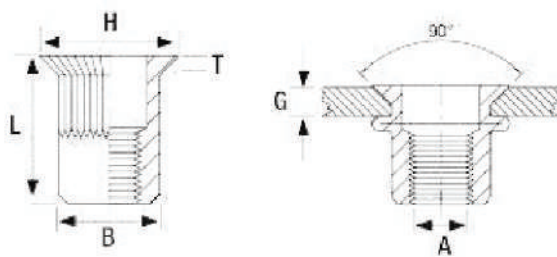
Bolt Size	Inner Diameter (d)		Outer Diameter (D)		Thickness (t)	
	Max.	Min.	Max.	Min.	Max.	Min.
M12	14.40	14.00	27.00	25.70	4.60	3.10
M14	16.40	16.00	30.00	28.07	4.60	3.10
M16	18.40	18.00	34.00	32.40	4.60	3.10
M20	22.50	22.00	42.00	40.40	4.60	3.10
M22	24.50	24.00	44.00	42.40	4.60	3.40
M24	26.50	26.00	50.00	48.40	4.60	3.40
M27	30.50	30.00	56.00	54.10	4.60	3.40
M30	33.60	33.00	60.00	58.10	4.60	3.40
M36	39.60	39.00	72.00	70.10	4.60	3.40
M42	45.60	45.00	84.00	81.10	7.20	4.60



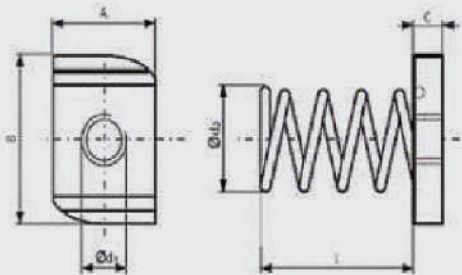
Structural Washers for use with A325 & A490 Structural Bolts

- HARDENED WASHERS ARE AVAILABLE TO ACCOMMODATE BOLT SIZES M10 - M30 DIA.
- SUPPLIED IN PLAIN FINISH TO ASTM SPEC F436 TYPE 1.

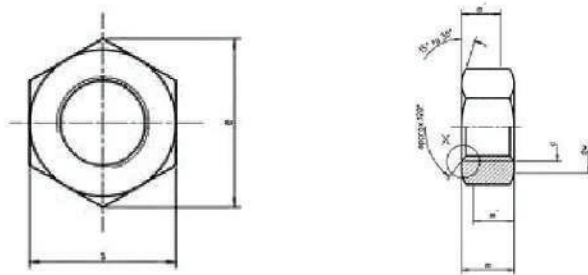
NUTS



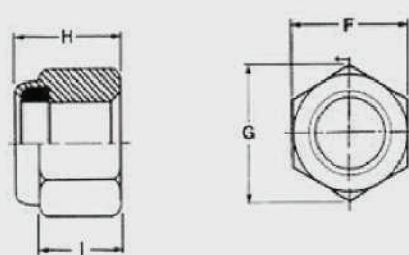
ITEM NAME	RIVET NUT WITH & W/O COLLAR
STANDARD	UNI 9201/9202
FINISH	WZP/SS
GRADE	Gr4.8/A2/A4
SIZE RANGE	M4 - M12



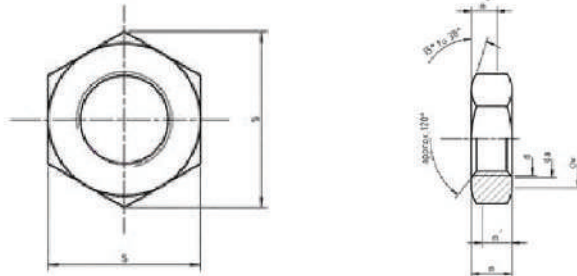
ITEM NAME	SPRING NUT- SHORT/ LONG SPRING
STANDARD	-
FINISH	WZP/SS
GRADE	Gr4.8/A2/A4
SIZE RANGE	M6 - M12



ITEM NAME	HEX NUT
STANDARD	DIN 934
FINISH	Black/WZP/HDG/SS
GRADE	Gr 4.8/8.8/10.9/A2/A4
SIZE RANGE	M4 - M64



ITEM NAME	NYLOCK NUT
STANDARD	DIN 985
FINISH	WZP/SS
GRADE	Gr 4.8/A2/A4
SIZE RANGE	M4 - M36



ITEM NAME	THIN/CHECK NUT
STANDARD	DIN 936
FINISH	WZP/SS
GRADE	Gr 4.8/A2/A4
SIZE RANGE	M8 - M24

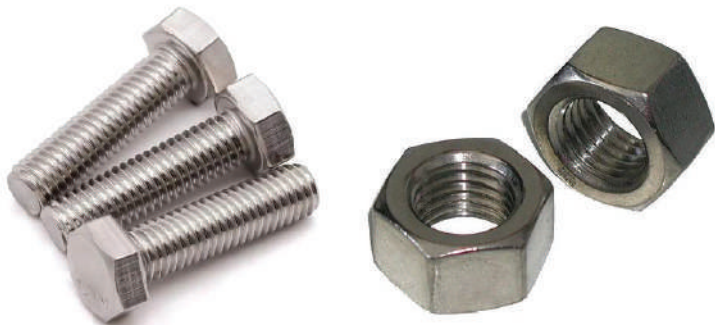


WASHERS

MS Half & Full Thread



SS A4 Full Thread

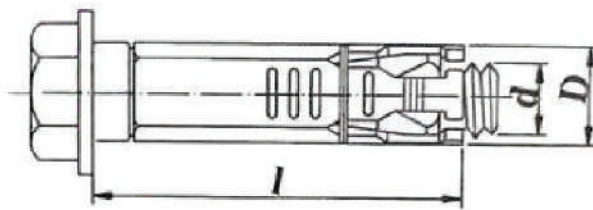


**Fasten
with
Precision**

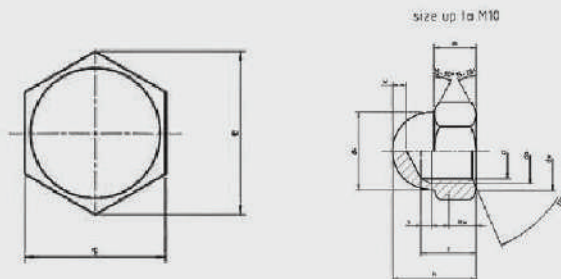


**Din - 7981
Din - 7982
From 3.5 x 10
To 6.3 x 100**

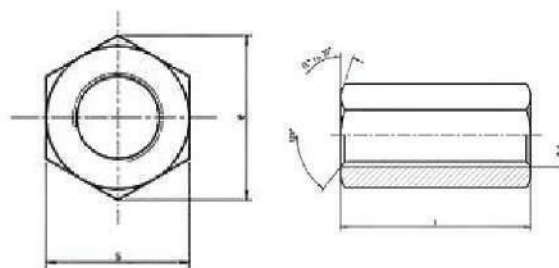
ANCHORS



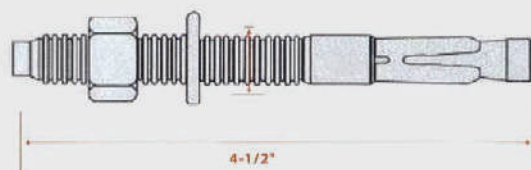
ITEM NAME	FIXBOLT SET
FINISH	YZP / WZP / SS
SIZE RANGE	M5 - M24



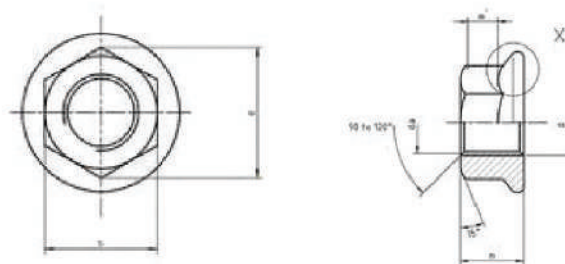
ITEM NAME	DOME/CAP NUT
STANDARD	DIN 1587
FINISH	WZP/SS
GRADE	Gr 4.8/A2/A4
SIZE RANGE	M4 - M30



ITEM NAME	COUPLING/LONG NUT
STANDARD	DIN 6334
FINISH	WZP/SS
GRADE	Gr 4.8/A2/A4
SIZE RANGE	M6 - M30

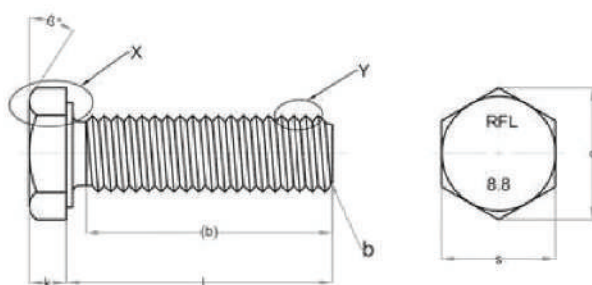


ITEM NAME	THRU BOLT PG
FINISH	YZP / WZP / SS
SIZE RANGE	M6 - M24

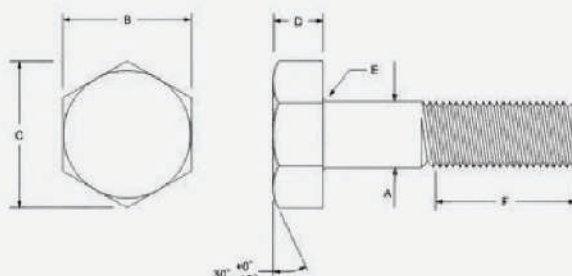


ITEM NAME	FLANGE NUT
STANDARD	DIN 6923
FINISH	WZP/SS
GRADE	Gr 4.8/A2/A4
SIZE RANGE	M6 - M16

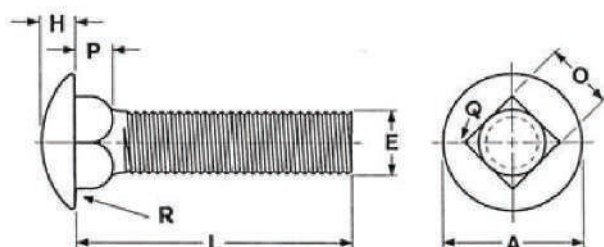
BOLTS



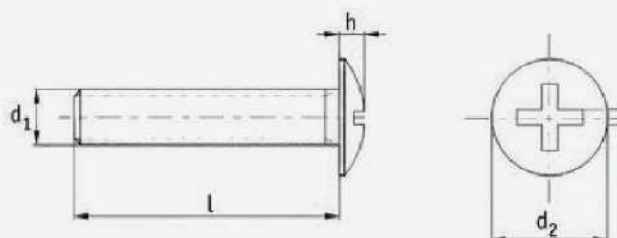
ITEM NAME	HEX BOLT FULL THREAD
STANDARD	DIN 933
FINISH	WZP/BLACK/YZP/HDG
GRADE	Gr4.8/Gr8.8/Gr10.9/SS 304 /SS 316
SIZE RANGE	M4 TO M36



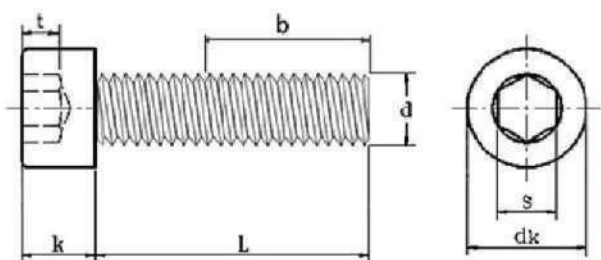
ITEM NAME	HEX BOLT HALF THREAD
STANDARD	DIN 931
FINISH	WZP/BLACK/YZP/HDG
GRADE	A490/A325/UNC Gr5/Gr8.8/Gr10.9
SIZE RANGE	M8 TO M42, 3/8" - 1"



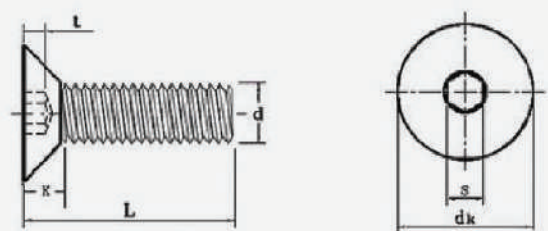
ITEM NAME	CARRIAGE BOLT FULL THREAD
STANDARD	DIN 603
FINISH	WZP / SS
GRADE	Gr4.8/SS 304 (A2)/SS 316 (A4)/8.8
SIZE RANGE	M6 TO M20



ITEM NAME	ROOFING BOLT
STANDARD	—
FINISH	WZP/SS
GRADE	Gr4.8/SS 304/SS 316
SIZE RANGE	M6 TO M12



ITEM NAME	CAP ALLEN BOLT
STANDARD	DIN 912
FINISH	BLACK / SS
GRADE	10.9/12.9/SS 304/SS 316
SIZE RANGE	M4 TO M24



ITEM NAME	CSK ALLEN BOLT
STANDARD	DIN 7991
FINISH	BLACK/SS
GRADE	8.8/10.9/SS 304/SS 316
SIZE RANGE	M3 to M24

SCREWS



Head Screw with Thread
DIN 933



Head Screw with Half Thread
DIN 931



J Bolt



MS Alan Bolt



U Bolt



Head Square Neck Bolt
Din 906 & 908



Threaded Bar



Anchor Bolt
DIN 529



Hexagon Nut
DIN 934



Spring Nut



Wing Nut
DIN 315 AF



Unifix
DIN 571



Round Washer
DIN 125



Spring Lock Washer
DIN 127



J Bolt



Cotter Pins
DIN 94



Scan For
Location



Scan For
Catalogue



Scan For
Contact