



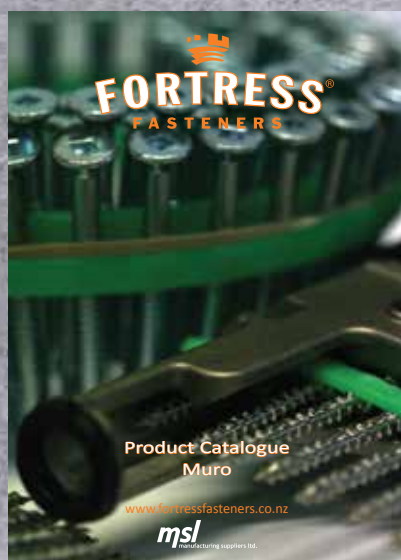
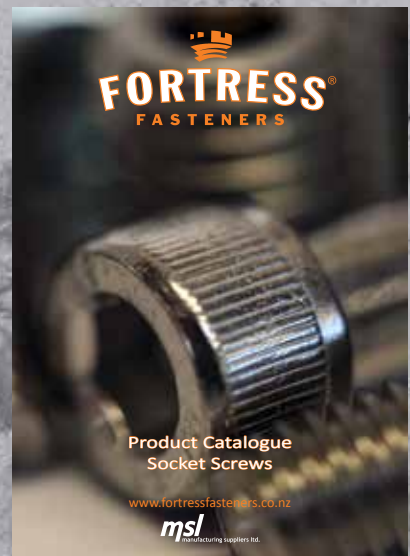
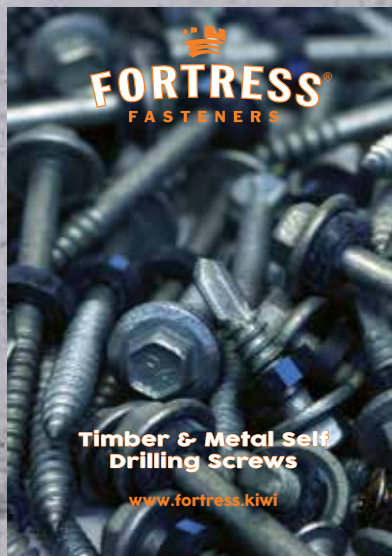
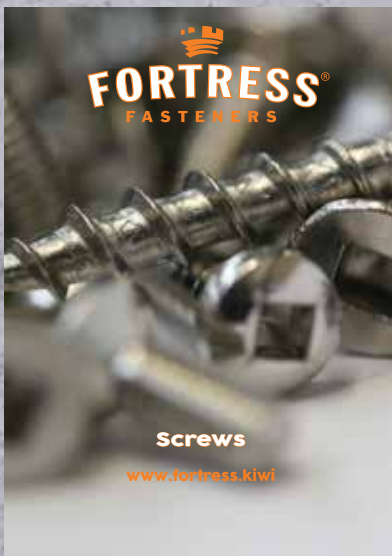
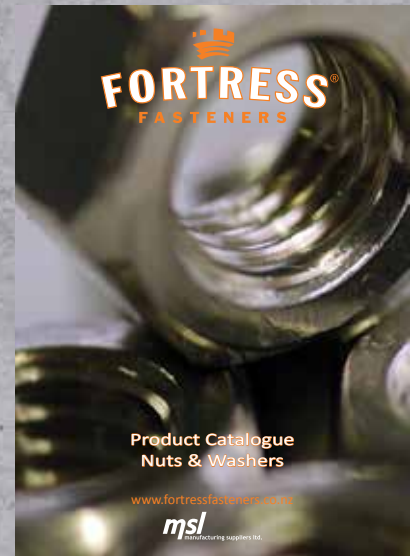
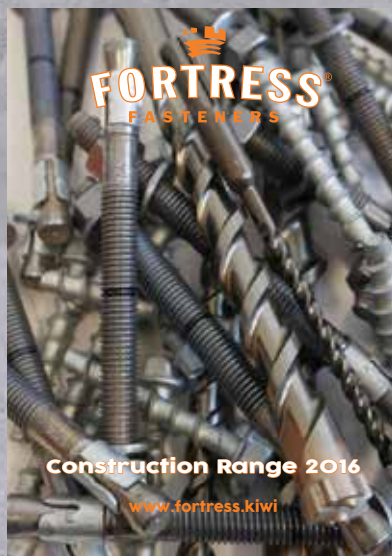
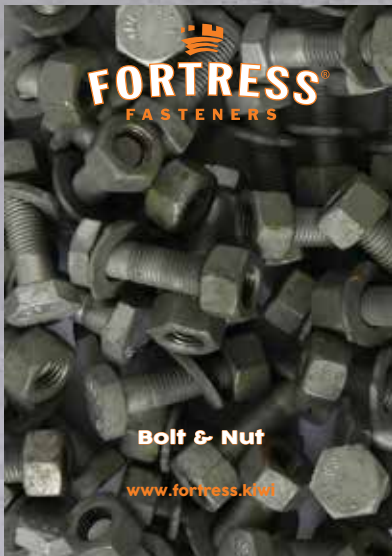
FORTRESS[®]

FASTENERS

Bolt & Nut

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Manufacturing Suppliers Ltd (MSL) began business in 1980 as a small operation in New Lynn, Auckland and is now one of New Zealand's leading fastener suppliers. We have grown dramatically in the past thirty years and now employ over one hundred people who continue our company vision - to meet industry demands for a range of quality fasteners backed by a dependable service.

Now a wholly owned subsidiary of Steel & Tube Holdings Ltd, we take pride in supporting the New Zealand economy, and can now offer a full range of steel solutions in partnership with Steel & Tube.

Our substantial growth since the eighties has included the introduction of 9 branches nationwide. Fortress has developed into a household name across many kiwi industries. Our local management means we understand the local market and have the ability to make decisions rapidly and easily. Large enough to meet the demands of any customer, we are still small enough to offer the personal touch.

With our network of fully-stocked branches carrying over 300 million items and 17,000 product lines. This makes us arguably the largest fastening wholesaler in the country. Our new products, creative packaging and merchandising initiatives have also earned us a reputation as industry innovators.

We owe our success to our ability to deliver on time and in full to a wide customer base in manufacturing industries, the building trade and to building supplies merchants in New Zealand.

This, combined with the strength of our own Fortress brand and our exceptional customer service is what makes MSL a market leader.

Our national management means we understand the local market and have the ability to make decisions rapidly and easily. Large enough to meet the demands of any customer, we are still small enough to offer the personal touch.

Branch Network

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Fax 09 414 7410

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Mount Maunganui

7 Newton Street
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Wellington

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Fax 04 586 2600

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66 Hammersmith Drive, Sockburn
Phone 03 343 6740
Fax 03 343 6741



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New Wall Chart Available!



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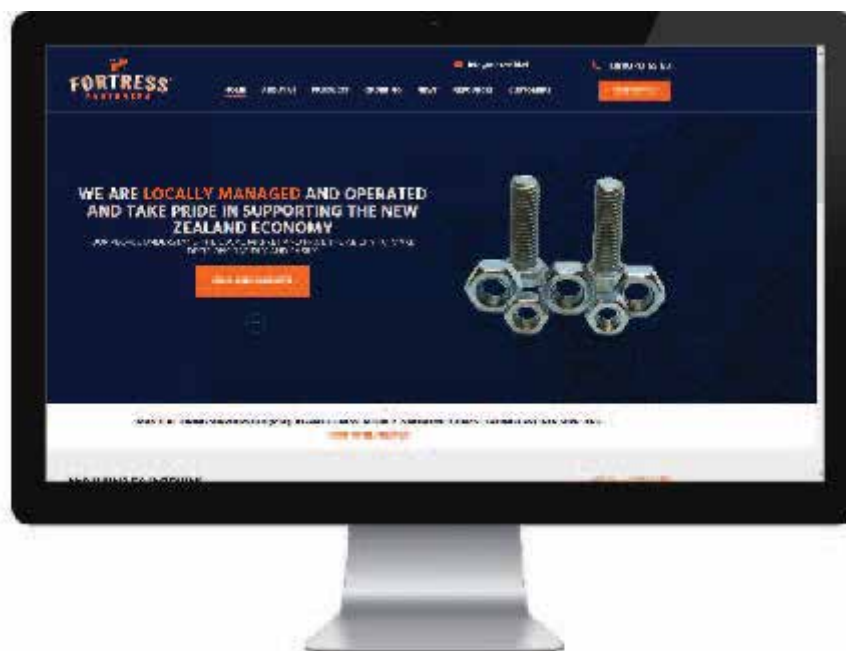
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Brand New Fortress Website



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Durability Icon Legend



Zinc - Internal use



Zinc Chromate - Internal use



Class 4 - External use



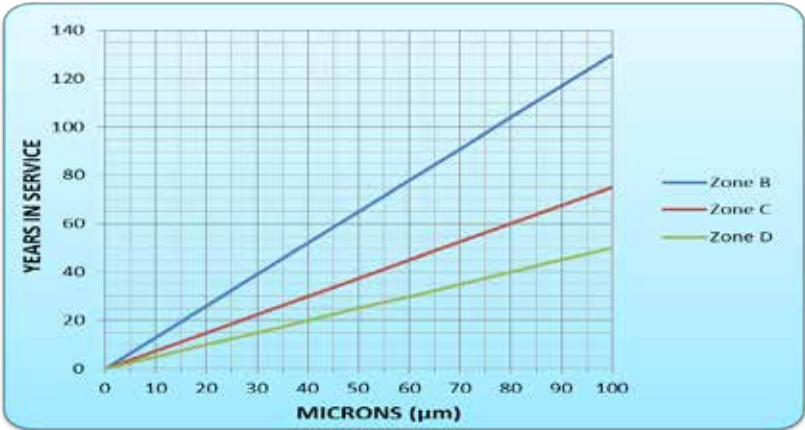
Galvanised - External use



T304 Stainless Steel - External use



T316 Stainless Steel - External and Marine use



Category	Coating Type	Coating Thickness (µm)	Standard
CLASS: 1	Electro Plated Zinc	4	AS 1791
CLASS: 2	Electro Plated Zinc	12	AS 1791
CLASS: 2	Mechanically Plated Zinc	17	AS 1791
CLASS: 3	Electro Plated Zinc	30	AS 1791
CLASS: 3	Mechanically Plated Zinc	40	AS 1791
CLASS: 3	Hot Dipped Galvanised	30	AS 1791
CLASS: 4	Mechanically Plated Zinc	45	AS 1791
CLASS: 4	Hot Dipped Galvanised	50	AS 1791
HDG	Hot Dipped Galvanised	84	AS 1214 / AS 4680

Exposure Zone Descriptions

Zone B: Low
Inland areas with little risk from wind blown sea-spray salt deposits.

Zone C: Medium
Inland costal areas with medium risk from wind blown sea-spray salt deposits. This covers mainly coastal areas with relatively low salinity. The extent of the affected area varies significantly with factors such as winds, topography and vegetation.

Zone D: High
Coastal areas with high risk of wind blown sea-spray deposits. This is defined as within 500m of the sea including harbours or 100m from tidal estuaries and sheltered inlets. This also includes all offshore islands.

Durability class Breakdown

CL 3

Class 3 - External use

Class 3 is good for general external use in mild industrial and marine applications. The class is intended for roofing and cladding screws in mild applications.

Class 3 is determined by achieving 1000 SST - 1000 Salt Spray Test hours.

Class three (CL3) and Class four (CL4) are forms of mechanically plated steel that sit between the common Zinc plated and Galvanised coatings in terms of durability.

Plating is 25-30 microns thick.

EC

E-Coat

E-Coat finish has a similar life span to Class 3 but is electrically plated.

BR

Blue Ruspert

Ruspert also has a similar durability to Class 3. Ruspert coating is a processing of metal surface treatment. It provides high performance of corrosion resistance. The coating including 3 layers. Base coating is metallic zinc layer, then the second chemical conversion film layer, finally a baked ceramic surface coating.

CL 4

Class 4 - External use

Class 4 is mechanically plated and rated to 1500 SST.

For external use in marine and moderately severe corrosive environments, generally within 1 kilometre from marine surf, although topography and /or strong prevailing winds may extend this distance.

Plating is 30-40 microns thick.

CL 5

Class 5 - External use

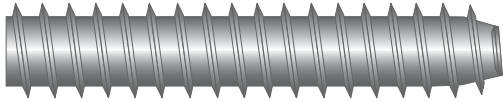
Class 5 is also mechanically plated but there is currently no national standard to adhere to. Class 5 fasteners are measured on real world testing as opposed to plating thickness.

Requires 2000 hours SST or greater to be rated to Class 5.

Always consult with your Fortress fastening specialist to get the best fastener to suit.

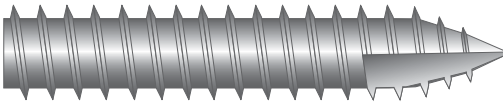
Compliance is to be assessed through real world testing "when testing at an approved outdoor test site there shall be no red rust present on the significant surfaces of 95% of the fasteners tested". These outdoor test sites must be located less than 500m from the mean high water line, in a coastal area with surf for most of the year.

Screw Points selection Guide



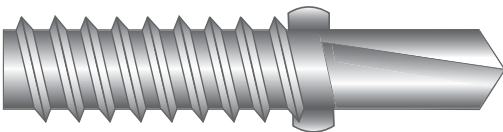
TYPE B

This point is applied to self tapping screws and generally specified where the screw is being driven into a shallow hole. Type B points provide for more full threads to be engaged in the material being fastened.



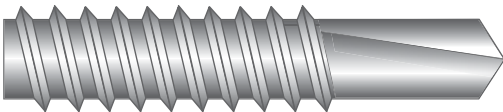
TYPE 17

Similar to the Type AB point, except that the screw material has been cut away. This feature, some times called a shank shot provides the ability for the screw to self drill through thin metal and then drill into timber members of the structure.



WINGED DRILL

In thicker building materials such as plywood, hardboard or cement sheet, the addition of wings cuts a slightly oversize hole permitting clear passage of the thread to engage with supporting steel structural members.



DRILL

A point designed to fasten material of varying types to steel. The shape of the drill point gives the fastener the ability to drill its own hole in most materials including steel.

Icon Legend



Drill Diameter



Embedment Depth



Material Thickness



Pack Size



Bulk Size



Driver Type and Size



Hex Drive Size



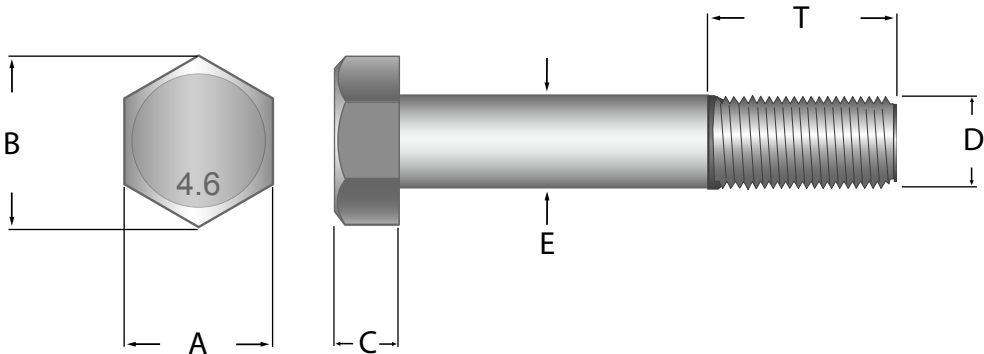
Across Face Head Width



Screw Gauge (size)

Product Dimensions

Metric Hexagon Bolts to AS 1110



		A ACROSS FLATS		B	C	E	
D DIA	PITCH MM	MAX	MIN	ACROSS CORNERS MIN	HEAD HEIGHT MAX	SHANK DIAMETER MAX	MIN
M5	0.8	8	7.78	9.2	3.5	5	4.82
M6	1	10	9.78	11.5	4	6	5.82
M8	1.25	13	12.73	15	5.3	8	7.78
M10	1.5	16	15.73	18.4	6.4	10	9.78
M12	1.75	18	17.73	20.7	7.5	12	11.73
M14	2	21	20.67	24.2	8.8	14	13.73
M16	2	24	23.67	27.7	10	16	15.73
M18	2.5	27	26.67	31.2	11.5	18	17.73
M20	2.5	30	29.67	34.6	12.5	20	19.67
M22	2.5	34	33.38	39.3	14	22	21.67
M24	3	36	35.38	41.6	15	24	23.67
M27	3	41	40.38	47.3	16.7	27	26.67
M30	3.5	46	45	53.1	18.7	30	29.67
M33	3.5	50	49	57.7	20.5	33	32.61
M36	4	55	53.8	63.5	22.5	36	35.61

NOMINAL THREAD LENGTHS FOR HEXAGON BOLTS	
NOMINAL LENGTH OF BOLT	THREAD LENGTH (T)
UP TO 25mm	Thread = 2D + 6mm
OVER 125MM, UP TO 200mm	Thread = 2D + 12mm
OVER 200mm	Thread = 2D + 25mm
**WHERE D IS THE DIAMETER	

Proof Loads and Tensile Stress

Metric Hexagon Bolts to AS 1110 - Class 4.6 & 8.8

DIA	CLASS 4.6 TO AS 1110			CLASS 8.8 TO AS 1110	
	TENSILE STRESS AREA mm ²	PROOF LOAD kN	TENSILE LOAD kN min	PROOF LOAD kN	TENSILE LOAD kN min
M5	14.2	3.20	5.68	8.23	11.35
M6	20.1	4.52	8.04	11.6	16.1
M8	36.6	8.24	14.6	21.2	29.2
M10	58.0	13.0	23.2	33.7	46.4
M12	84.3	19.0	33.7	48.9	67.4
M14	115	25.9	46.0	66.7	92.0
M16	157	35.3	62.8	91	125
M18	192	43.2	76.8	115	159
M20	245	55.1	98.0	147	203
M22	303	68.2	121	182	252
M24	353	79.4	141	212	293
M27	459	103	184	275	381
M30	561	126	224	337	466
M33	694	156	278	416	576

Steel Hex Head Bolt & Nut

Metric Course Specifications

Bolts manufactured to: AS 1111 metric series 4.6
: AS 1110 metric series 8.8
Nuts manufactured to : AS 1112 metric series 8.8



SIZE	PITCH	AF	THREAD LENGTH (NOMINAL)		
	Distance between threads(mm)	Head Diameter (mm)	Up to 125mm	Over 125 to 200mm	Over 200mm
M6	1.00mm	10mm	18mm	24mm	
M8	1.25mm	13mm	22mm	28mm	
M10	1.50mm	16mm	26mm	32mm	45mm
M12	1.75mm	18mm	30mm	36mm	49mm
M16	2.00mm	24mm	38mm	44mm	57mm
M20	2.50mm	30mm	46mm	52mm	65mm
M24	3.00mm	36mm	54mm	60mm	73mm

RECOMMENDED TIGHTENING TORQUE		
SIZE	CLASS 4.6	CLASS 8.8
M6	3.5 Nm	9 Nm
M8	8.5 Nm	22 Nm
M10	17 Nm	44 Nm
M12	30 Nm	77 Nm
M16	73 Nm	190 Nm
M20	143 Nm	370 Nm
M24	248 Nm	640 Nm

BREAKING LOAD OF BOLT		
SIZE	CLASS 4.6	CLASS 8.8
M6	8.0 kN	16.1 kN
M8	14.6 kN	29.2 kN
M10	23.2 kN	46.4 kN
M12	33.7 kN	67.4 kN
M16	62.8 kN	125.0 kN
M20	98.0 kN	203.0 kN
M24	141.0 kN	293.0 kN

Hex Head Bolt & Nut

Galvanised Class 4.6



Galv



PART #	SIZE	PACK QTY
BNM820G	M8 X 20	100
BNM825G	M8 X 25	100
BNM830G	M8 X 30	75
BNM835G	M8 X 35	75
BNM840G	M8 X 40	75
BNM845G	M8 X 45	50
BNM850G	M8 X 50	50
BNM855G	M8 X 55	50
BNM865G	M8 X 65	50
BNM875G	M8 X 75	50
BNM890G	M8 X 90	50
BNM8100G	M8 X 100	50
BNM8110G	M8 X 110	50
BNM8120G	M8 X 120	50
BNM1020G	M10 X 20	100
BNM1025G	M10 X 25	100
BNM1030G	M10 X 30	100
BNM1035G	M10 X 35	75
BNM1040G	M10 X 40	75
BNM1045G	M10 X 45	75
BNM1050G	M10 X 50	75
BNM1060G	M10 X 60	50
BNM1065G	M10 X 65	50
BNM1070G	M10 X 70	50
BNM1075G	M10 X 75	50
BNM1080G	M10 X 80	50
BNM1090G	M10 X 90	50
BNM10100G	M10 X 100	50
BNM10110G	M10 X 110	50
BNM10120G	M10 X 120	50
BNM10130G	M10 X 130	50
BNM10140G	M10 X 140	50

Galv



PART #	SIZE	PACK QTY
BNM10150G	M10 X 150	50
BNM10160G	M10 X 160	10
BNM10180G	M10 X 180	10
BNM10200G	M10 X 200	10
BNM10220G	M10 X 220	10
BNM10240G	M10 X 240	10
BNM10260G	M10 X 260	10
BNM10280G	M10 X 280	10
BNM10300G	M10 X 300	10
BNM1225G	M12 X 25	75
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BNM1270G	M12 X 70	25
BNM1275G	M12 X 75	25
BNM1280G	M12 X 80	25
BNM1290G	M12 X 90	25
BNM12100G	M12 X 100	25
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BNM12160G	M12 X 160	10
BNM12170G	M12 X 170	10
BNM12180G	M12 X 180	10
BNM12200G	M12 X 200	10

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PART #	SIZE	PACK QTY
BNM12220G	M12 X 220	10
BNM12240G	M12 X 240	10
BNM12260G	M12 X 260	10
BNM12280G	M12 X 280	10
BNM12300G	M12 X 300	10
BNM12325G	M12 X 325	10
BNM12350G	M12 X 350	10
BNM12375G	M12 X 375	10
BNM12400G	M12 X 400	10
BNM12450G	M12 X 450	10
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PART #	SIZE	PACK QTY
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BNM20260G	M20 X 260	5
BNM20280G	M20 X 280	5
BNM20300G	M20 X 300	5
BNM20325G	M20 X 325	5

All Stock is subject to availability



PART #	SIZE	PACK QTY
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BNM20375G	M20 X 375	5
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BNM20450G	M20 X 450	5
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BNM24240G	M24 X 240	5
BNM24260G	M24 X 260	5
BNM24280G	M24 X 280	5
BNM24300G	M24 X 300	5
BNM24350G	M24 X 350	5
BNM24450G	M24 X 450	5
BNM24500G	M24 X 500	5
BNM24550G	M24 X 550	5
BNM24600G	M24 X 600	5
BNM24750G	M24 X 750	5
BNM27120G	M27 X 120	5
BNM30110G	M30 X 110	5
BNM30120G	M30 X 120	5
BNM30130G	M30 X 130	5
BNM30140G	M30 X 140	5
BNM30160G	M30 X 160	5
BNM30180G	M30 X 180	5

All Stock is subject to availability

Hex Head Bolt & Nut

Zinc Plated Class 4.6



PART #	SIZE	PACK QTY
BNM612Z	M6 X 12	200
BNM616Z	M6 X 16	200
BNM620Z	M6 X 20	200
BNM625Z	M6 X 25	200
BNM630Z	M6 X 30	150
BNM635Z	M6 X 35	150
BNM640Z	M6 X 40	150
BNM645Z	M6 X 45	150
BNM650Z	M6 X 50	150
BNM655Z	M6 X 55	150
BNM660Z	M6 X 60	150
BNM665Z	M6 X 65	150
BNM670Z	M6 X 70	150
BNM675Z	M6 X 75	150
BNM680Z	M6 X 80	125
BNM690Z	M6 X 90	100
BNM6100Z	M6 X 100	100
BNM6110Z	M6 X 110	100
BNM820Z	M8 X 20	100
BNM825Z	M8 X 25	75
BNM830Z	M8 X 30	75
BNM835Z	M8 X 35	75
BNM840Z	M8 X 40	75
BNM845Z	M8 X 45	50
BNM850Z	M8 X 50	50
BNM855Z	M8 X 55	50
BNM860Z	M8 X 60	50
BNM865Z	M8 X 65	50
BNM870Z	M8 X 70	50
BNM875Z	M8 X 75	50
BNM880Z	M8 X 80	75
BNM890Z	M8 X 90	50



PART #	SIZE	PACK QTY
BNM8100Z	M8 X 100	50
BNM8110Z	M8 X 110	50
BNM8120Z	M8 X 120	50
BNM1020Z	M10 X 20	100
BNM1025Z	M10 X 25	100
BNM1030Z	M10 X 30	100
BNM1035Z	M10 X 35	75
BNM1040Z	M10 X 40	75
BNM1045Z	M10 X 45	75
BNM1050Z	M10 X 50	75
BNM1060Z	M10 X 60	50
BNM1065Z	M10 X 65	50
BNM1070Z	M10 X 70	50
BNM1075Z	M10 X 75	50
BNM1080Z	M10 X 80	50
BNM1090Z	M10 X 90	50
BNM10100Z	M10 X 100	50
BNM10110Z	M10 X 110	25
BNM10120Z	M10 X 120	25
BNM10130Z	M10 X 130	25
BNM10140Z	M10 X 140	50
BNM10150Z	M10 X 150	50
BNM1225Z	M12 X 25	50
BNM1230Z	M12 X 30	50
BNM1235Z	M12 X 35	50
BNM1240Z	M12 X 40	50
BNM1245Z	M12 X 45	50
BNM1250Z	M12 X 50	50
BNM1255Z	M12 X 55	50
BNM1260Z	M12 X 60	50
BNM1265Z	M12 X 65	50
BNM1270Z	M12 X 70	50

All Stock is subject to availability

Zinc



PART #	SIZE	PACK QTY
BNM1280Z	M12 X 80	50
BNM1290Z	M12 X 90	50
BNM12100Z	M12 X 100	25
BNM12110Z	M12 X 110	25
BNM12120Z	M12 X 120	25
BNM12130Z	M12 X 130	25
BNM1630Z	M16 X 30	25
BNM1640Z	M16 X 40	25
BNM1650Z	M16 X 50	25
BNM1660Z	M16 X 60	25
BNM1665Z	M16 X 65	25
BNM1670Z	M16 X 70	25
BNM1675Z	M16 X 75	10
BNM1680Z	M16 X 80	10
BNM1690Z	M16 X 90	10
BNM16100Z	M16 X 100	10
BNM2045Z	M20 X 45	10
BNM2050Z	M20 X 50	10
BNM2065Z	M20 X 65	10
BNM2070Z	M20 X 70	10
BNM2075Z	M20 X 75	10
BNM2090Z	M20 X 90	10
BNM20100Z	M20 X 100	10
BNM20110Z	M20 X 110	10
BNM20140Z	M20 X 140	10

All Stock is subject to availability

Hex Head Bolt & Nut

Zinc Plated Class 8.8



Zinc		
PART #	SIZE	PACK QTY
BNHM616Z	M6 X 16	200
BNHM620Z	M6 X 20	200
BNHM625Z	M6 X 25	200
BNHM630Z	M6 X 30	150
BNHM635Z	M6 X 35	150
BNHM640Z	M6 X 40	150
BNHM645Z	M6 X 45	100
BNHM650Z	M6 X 50	100
BNHM655Z	M6 X 55	100
BNHM660Z	M6 X 60	100
BNHM665Z	M6 X 65	100
BNHM670Z	M6 X 70	100
BNHM680Z	M6 X 80	100
BNHM690Z	M6 X 90	100
BNHM6100Z	M6 X 100	75
BNHM816Z	M8 X 16	125
BNHM820Z	M8 X 20	100
BNHM825Z	M8 X 25	100
BNHM830Z	M8 X 30	75
BNHM835Z	M8 X 35	75
BNHM840Z	M8 X 40	75
BNHM845Z	M8 X 45	50
BNHM850Z	M8 X 50	50
BNHM855Z	M8 X 55	50
BNHM860Z	M8 X 60	50
BNHM865Z	M8 X 65	50
BNHM870Z	M8 X 70	50
BNHM875Z	M8 X 75	50
BNHM880Z	M8 X 80	50
BNHM890Z	M8 X 90	50
BNHM8100Z	M8 X 100	50
BNHM8110Z	M8 X 110	50

Zinc		
PART #	SIZE	PACK QTY
BNHM1020Z	M10 X 20	100
BNHM1025Z	M10 X 25	100
BNHM1030Z	M10 X 30	100
BNHM1035Z	M10 X 35	75
BNHM1040Z	M10 X 40	75
BNHM1050Z	M10 X 50	75
BNHM1055Z	M10 X 55	50
BNHM1060Z	M10 X 60	50
BNHM1065Z	M10 X 65	50
BNHM1070Z	M10 X 70	50
BNHM1075Z	M10 X 75	50
BNHM1080Z	M10 X 80	50
BNHM1090Z	M10 X 90	50
BNHM10100Z	M10 X 100	50
BNHM10110Z	M10 X 110	25
BNHM10120Z	M10 X 120	25
BNHM10130Z	M10 X 130	25
BNHM10140Z	M10 X 140	25
BNHM10150Z	M10 X 150	25
BNHM1225Z	M12 X 25	75
BNHM12130Z	M12 X 30	75
BNHM1235Z	M12 X 35	50
BNHM1240Z	M12 X 40	50
BNHM1245Z	M12 X 45	50
BNHM1250Z	M12 X 50	50
BNHM1255Z	M12 X 55	25
BNHM1260Z	M12 X 60	25
BNHM1265Z	M12 X 65	25
BNHM1270Z	M12 X 70	25
BNHM1275Z	M12 X 75	25
BNHM1280Z	M12 X 80	25
BNHM1290Z	M12 X 90	25

All Stock is subject to availability

Zinc



PART #	SIZE	PACK QTY
BNHM12100Z	M12 X 100	25
BNHM12110Z	M12 X 110	25
BNHM12120Z	M12 X 120	25
BNHM12130Z	M12 X 130	25
BNHM12140Z	M12 X 140	25
BNHM12150Z	M12 X 150	25
BNHM12160Z	M12 X 160	25
BNHM12170Z	M12 X 170	25
BNHM12180Z	M12 X 180	25
BNHM12200Z	M12 X 200	10
BNHM1425Z	M14 X 25	25
BNHM1440Z	M14 X 40	25
BNHM1450Z	M14 X 50	25
BNHM1460Z	M14 X 60	25
BNHM14100Z	M14 X 100	25
BNHM16030Z	M16 X 30	25
BNHM1635Z	M16 X 35	25
BNHM1640Z	M16 X 40	25
BNHM1645Z	M16 X 45	25
BNHM1650Z	M16 X 50	25
BNHM1655Z	M16 X 55	25
BNHM1660Z	M16 X 60	25
BNHM1665Z	M16 X 65	25
BNHM1670Z	M16 X 70	20
BNHM1675Z	M16 X 75	20
BNHM1680Z	M16 X 80	20
BNHM1690Z	M16 X 90	20
BNHM16100Z	M16 X 100	15
BNHM16110Z	M16 X 110	15
BNHM16120Z	M16 X 120	15
BNHM16130Z	M16 X 130	15
BNHM16140Z	M16 X 140	15
BNHM16150Z	M16 X 150	15
BNHM16170Z	M16 X 170	15
BNHM16220Z	M16 X 220	15
BNHM2040Z	M20 X 40	15
BNHM2045Z	M20 X 45	15
BNHM2050Z	M20 X 50	15
BNHM2055Z	M20 X 55	15
BNHM2060Z	M20 X 60	15
BNHM2065Z	M20 X 65	15
BNHM2070Z	M20 X 70	15

Zinc



PART #	SIZE	PACK QTY
BNHM2075Z	M20 X 75	15
BNHM2080Z	M20 X 80	10
BNHM2090Z	M20 X 90	10
BNHM20100Z	M20 X 100	10
BNHM20110Z	M20 X 110	10
BNHM20150Z	M20 X 150	10
BNHM20180Z	M20 X 180	10
BNHM20190Z	M20 X 190	5
BNHM20200Z	M20 X 200	5
BNHM2450Z	M24 X 50	5
BNHM2465Z	M24 X 65	5
BNHM2490Z	M24 X 90	5
BNHM24100Z	M24 X 100	5
BNHM24110Z	M24 X 110	5
BNHM24140Z	M24 X 140	5
BNHM24160Z	M24 X 160	5

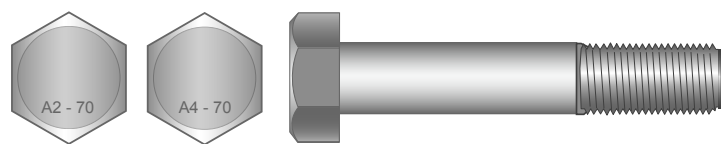
All Stock is subject to availability

Stainless Steel Hex Head Bolt & Nut - Set Screws

Metric Course Specifications

Bolts manufactured to: DIN931 metric series

Nuts manufactured to : DIN934 metric series



SIZE	PITCH	AF
	Distance between threads(mm)	Head Diameter (mm)
M6	1.00mm	10mm
M8	1.25mm	13mm
M10	1.50mm	17mm
M12	1.75mm	19mm
M16	2.00mm	24mm
M20	2.50mm	30mm
M24	3.00mm	36mm

TYPICAL CHEMICAL COMPOSITION	
T304 (A2)	T316 (A4)
CHROMIUM 18%	CHROMIUM 18%
NICKEL 18%	NICKEL 18%
	MOLYBDENUM 2.2%

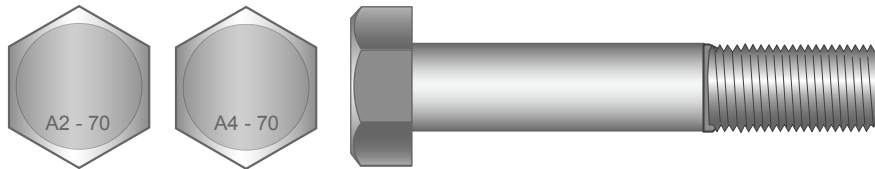
RECOMMENDED TIGHTENING TORQUE	
SIZE	
M6	7.0 Nm
M8	18 Nm
M10	35 Nm
M12	60 Nm
M16	152 Nm
M20	295 Nm

BREAKING LOAD OF BOLT (minimum)	
SIZE	
M6	9.0 kN
M8	17 kN
M10	26 kN
M12	37 kN
M16	70 kN
M20	110 kN

Hex Head Bolt & Nut stainless steel

Stainless Steel T304

Stainless Steel T316



**T304
(A2)**

**T316
(A4)**



**T304
(A2)**

**T316
(A4)**



PART #	SIZE	PACK QTY
BNXM640	M6 X 40	50
BNXM645	M6 X 45	50
BNXM650	M6 X 50	50
BNXM655	M6 X 55	50
BNXM660	M6 X 60	50
BNXM665	M6 X 65	50
BNXM670	M6 X 70	50
BNXM675	M6 X 75	50
BNXM680	M6 X 80	50
BNXM690	M6 X 90	50
BNXM6130	M6 X 130	50
BNXM835	M8 X 35	25
BNXM840	M8 X 40	25
BNXM845	M8 X 45	25
BNXM850	M8 X 50	25
BNXM865	M8 X 60	25
BNXM865	M8 X 65	25
BNXM870	M8 X 70	25
BNXM880	M8 X 80	25
BNXM890	M8 X 90	25
BNXM8100	M8 X 100	25
BNXM8110	M8 X 110	25
BNXM8130	M8 X 130	25
BNXM1040	M10 X 40	25
BNXM1050	M10 X 50	25
BNXM1060	M10 X 60	25
BNXM1065	M10 X 65	25
BNXM1070	M10 X 70	25
BNXM1075	M10 X 75	25
BNXM1080	M10 X 80	25
BNXM1090	M10 X 90	25
BNXM10100	M10 X 100	25

PART #	SIZE	PACK QTY
BNXM10110	M10 X 110	25
BNXM10120	M10 X 120	25
BNXM10130	M10 X 130	25
BNXM10150	M10 X 150	25
BNXM1240	M12 X 40	25
BNXM1245	M12 X 45	25
BNXM1250	M12 X 50	25
BNXM1255	M12 X 55	25
BNXM1260	M12 X 60	25
BNXM1265	M12 X 65	25
BNXM1270	M12 X 70	25
BNXM1275	M12 X 75	25
BNXM1290	M12 X 80	25
BNXM1290	M12 X 90	25
BNXM12100	M12 X 100	25
BNXM12110	M12 X 110	25
BNXM12120	M12 X 120	25
BNXM12130	M12 X 130	25
BNXM12140	M12 X 140	25
BNXM12150	M12 X 150	25
BNXM12160	M12 X 160	10
BNXM12180	M12 X 180	10
BNXM12200	M12 X 200	10
BNXM12220	M12 X 220	5
BNXM12240	M12 X 240	5
BNXM12260	M12 X 260	5
BNXM12280	M12 X 280	5
BNXM12300	M12 X 300	5
BNXM1665	M16 X 65	10
BNXM1670	M16 X 70	10
BNXM1675	M16 X 75	10
BNXM1680	M16 X 80	10

All Stock is subject to availability



PART #		SIZE	PACK QTY
BNXM1690	BNXM1690T	M16 X 90	10
BNXM16100	BNXM16100T	M16 X 100	10
BNXM16110	BNXM16110T	M16 X 110	10
BNXM16120	BNXM16120T	M16 X 120	10
BNXM16130	BNXM16130T	M16 X 130	10
BNXM16140	BNXM16140T	M16 X 140	10
BNXM16150	BNXM16150T	M16 X 150	10
BNXM16160	BNXM16160T	M16 X 160	10
BNXM16180	BNXM16180T	M16 X 180	5
BNXM16200	BNXM16200T	M16 X 200	5
BNXM16220	BNXM16220T	M16 X 220	5
BNXM16240	BNXM16240T	M16 X 240	5
BNXM16260	BNXM16260T	M16 X 260	5
BNXM16280	BNXM16280T	M16 X 280	5
BNXM16300	BNXM16300T	M16 X 300	5
BNXM16350	BNXM16350T	M16 X 350	5
BNXM16400	BNXM16400T	M16 X 400	5
BNXM2060	BNXM2060T	M20 X 60	5
BNXM2065	BNXM2065T	M20 X 65	5
BNXM2070	BNXM2070T	M20 X 70	5
BNXM2075	BNXM2075T	M20 X 75	5
BNXM2080	BNXM2080T	M20 X 80	5
BNXM2090	BNXM2090T	M20 X 90	5
BNXM20100	BNXM20100T	M20 X 100	5
BNXM20110	BNXM20110T	M20 X 110	5
BNXM20120	BNXM20120T	M20 X 120	5
BNXM20130	BNXM20130T	M20 X 130	5
BNXM20150	BNXM20150T	M20 X 150	5
BNXM20160	BNXM20160T	M20 X 160	5
BNXM20180	BNXM20180T	M20 X 180	5
BNXM20200	BNXM20200T	M20 X 200	5
BNXM20240	BNXM20240T	M20 X 240	5
BNXM20300	BNXM20300T	M20 X 300	5
BNXM2470	BNXM2470T	M24 X 70	5
BNXM2475	BNXM2475T	M24 X 75	5
BNXM2480	BNXM2480T	M24 X 80	5
BNXM2490	BNXM2490T	M24 X 90	5
BNXM24100	BNXM24100T	M24 X 100	5
BNXM24110	BNXM24110T	M24 X 110	5
BNXM24120	BNXM24120T	M24 X 120	5
BNXM24130	BNXM24130T	M24 X 130	5
BNXM24140	BNXM24140T	M24 X 140	5

PART #		SIZE	PACK QTY
BNXM24150	BNXM24150T	M24 X 150	5
BNXM24160	BNXM24160T	M24 X 160	5
BNXM24180	BNXM24180T	M24 X 180	5
BNXM24200	BNXM24200T	M24 X 200	5
BNXM24250	BNXM24250T	M24 X 250	5

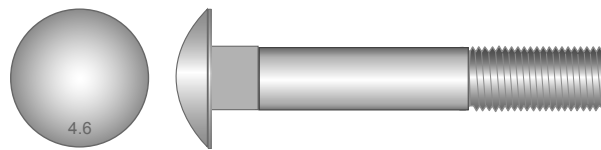
All Stock is subject to availability

Steel Coach Bolt & Nut

Metric Course Specifications

Bolts manufactured to: AS 1390 metric series 4.6

Bolts manufactured to: DIN603 metric series Stainless Steel



SIZE	PITCH	AF	THREAD LENGTH (NOMINAL)		
	Distance between threads(mm)	Head Diameter (mm)	Up to 125mm	Over 125 to 20mm	Over 200mm
M6	1.00mm	10mm	18mm	24mm	
M8	1.25mm	13mm	22mm	28mm	
M10	1.50mm	16mm	26mm	32mm	45mm
M12	1.75mm	18mm	30mm	36mm	49mm
M16	2.00mm	24mm	38mm	44mm	57mm
M20	2.50mm	30mm	46mm	52mm	65mm

BREAKING LOAD OF BOLT	
SIZE	CLASS 4.6
M6	8.0 kN
M8	14.6 kN
M10	23.2 kN
M12	33.7 kN
M16	62.8 kN
M20	98.0 kN
M24	141.0 kN

TENSILE STRENGTH (Minimum)
400 MPa

Durability:

Bright Zinc:

3-5 Microns

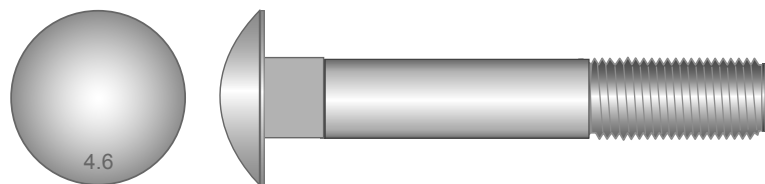
Recommended for indoor use only

Hot Dipped Galvanised - 98% Zinc - 45 Microns

Typical Life - 25-50 Years

Coach Bolt & Nut

Galvanised Class 4.6



Galv



PART #	SIZE	PACK QTY
CBNM820G	M8 X 20	100
CBNM825G	M8 X 25	100
CBNM830G	M8 X 30	75
CBNM840G	M8 X 40	75
CBNM850G	M8 X 50	50
CBNM860G	M8 X 60	50
CBNM865G	M8 X 65	50
CBNM875G	M8 X 75	50
CBNM880G	M8 X 80	50
CBNM890G	M8 X 90	50
CBNM895G	M8 X 95	50
CBNM8100G	M8 X 100	50
CBNM8110G	M8 X 110	50
CBNM8130G	M8 X 130	50
CBNM8140G	M8 X 140	50
CBNM8150G	M8 X 150	50
CBNM8160G	M8 X 160	50
CBNM8180G	M8 X 180	50
CBNM1025G	M10 X 25	100
CBNM1030G	M10 X 30	100
CBNM1040G	M10 X 40	75
CBNM1050G	M10 X 50	75
CBNM1060G	M10 X 60	50
CBNM1065G	M10 X 65	50
CBNM1070G	M10 X 70	50
CBNM1075G	M10 X 75	50
CBNM1080G	M10 X 80	50
CBNM1090G	M10 X 90	50
CBNM10100G	M10 X 100	50
CBNM10110G	M10 X 110	50
CBNM10120G	M10 X 120	50
CBNM10130G	M10 X 130	50

Galv



PART #	SIZE	PACK QTY
CBNM10140G	M10 X 140	50
CBNM10150G	M10 X 150	50
CBNM10160G	M10 X 160	10
CBNM10170G	M10 X 170	10
CBNM10180G	M10 X 180	10
CBNM10190G	M10 X 190	10
CBNM10200G	M10 X 200	10
CBNM10220G	M10 X 220	10
CBNM10240G	M10 X 240	10
CBNM10260G	M10 X 260	10
CBNM10280G	M10 X 280	10
CBNM10300G	M10 X 300	10
CBNM10350G	M10 X 350	10
CBNM1230G	M12 X 30	50
CBNM1240G	M12 X 40	50
CBNM1250G	M12 X 50	50
CBNM1260G	M12 X 60	25
CBNM1265G	M12 X 65	25
CBNM1270G	M12 X 70	25
CBNM1275G	M12 X 75	25
CBNM1290G	M12 X 90	25
CBNM12100G	M12 X 100	25
CBNM12110G	M12 X 110	25
CBNM12120G	M12 X 120	25
CBNM12130G	M12 X 130	25
CBNM12140G	M12 X 140	25
CBNM12150G	M12 X 150	25
CBNM12160G	M12 X 160	10
CBNM12170G	M12 X 170	10
CBNM12180G	M12 X 180	10
CBNM12190G	M12 X 190	10
CBNM12200G	M12 X 200	10

All Stock is subject to availability

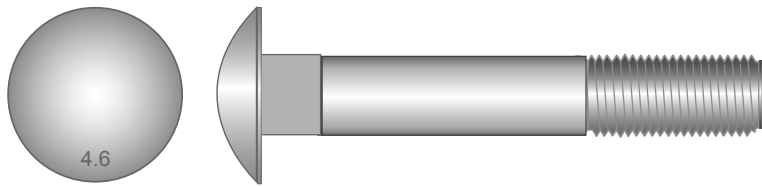


PART #	SIZE	PACK QTY
CBNM12220G	M12 X 220	10
CBNM12240G	M12 X 240	10
CBNM12260G	M12 X 260	10
CBNM12280G	M12 X 280	10
CBNM12300G	M12 X 300	10
CBNM12325G	M12 X 325	10
CBNM12350G	M12 X 350	10
CBNM12375G	M12 X 375	10
CBNM12400G	M12 X 400	10
CBNM1650G	M16 X 50	10
CBNM1665G	M16 X 65	10
CBNM1675G	M16 X 75	10
CBNM1690G	M16 X 90	10
CBNM16100G	M16 X 100	10
CBNM16110G	M16 X 110	10
CBNM16150G	M16 X 150	10
CBNM16160G	M16 X 160	10
CBNM16180G	M16 X 180	10
CBNM16200G	M16 X 200	10
CBNM16220G	M16 X 220	10
CBNM16240G	M16 X 240	10
CBNM16250G	M16 X 250	10
CBNM16260G	M16 X 260	10
CBNM16280G	M16 X 280	10
CBNM16300G	M16 X 300	5
CBNM16325G	M16 X 325	5
CBNM16350G	M16 X 350	5
CBNM16400G	M16 X 400	5
CBNM20100G	M20 X 100	5
CBNM20130G	M20 X 130	5
CBNM20150G	M20 X 150	5
CBNM20180G	M20 X 180	5
CBNM20200G	M20 X 200	5
CBNM20240G	M20 X 240	5
CBNM20260G	M20 X 260	5
CBNM20300G	M20 X 300	5
CBNM20350G	M20 X 350	5
CBNM20450G	M20 X 450	5

All Stock is subject to availability

Coach Bolt & Nut

Zinc Plated Class 4.6



PART #	SIZE	PACK QTY
CBNM620Z	M6 X 20	200
CBNM625Z	M6 X 25	200
CBNM630Z	M6 X 30	150
CBNM635Z	M6 X 35	150
CBNM640Z	M6 X 40	150
CBNM650Z	M6 X 50	150
CBNM655Z	M6 X 55	150
CBNM660Z	M6 X 60	150
CBNM665Z	M6 X 65	150
CBNM670Z	M6 X 70	150
CBNM675Z	M6 X 75	125
CBNM690Z	M6 X 90	100
CBNM6100Z	M6 X 100	100
CBNM6110Z	M6 X 110	100
CBNM6130Z	M6 X 130	100
CBNM6150Z	M6 X 150	100
CBNM820Z	M8 X 20	100
CBNM825Z	M8 X 25	100
CBNM830Z	M8 X 30	75
CBNM40Z	M8 X 40	75
CBNM845Z	M8 X 45	50
CBNM850Z	M8 X 50	50
CBNM860Z	M8 X 60	50
CBNM865Z	M8 X 65	50
CBNM870Z	M8 X 70	50
CBNM875Z	M8 X 75	50
CBNM880Z	M8 X 80	50
CBNM890Z	M8 X 90	50
CBNM8100Z	M8 X 100	50
CBNM8110Z	M8 X 110	50
CBNM8150Z	M8 X 150	50
CBNM1020Z	M10 X 20	100



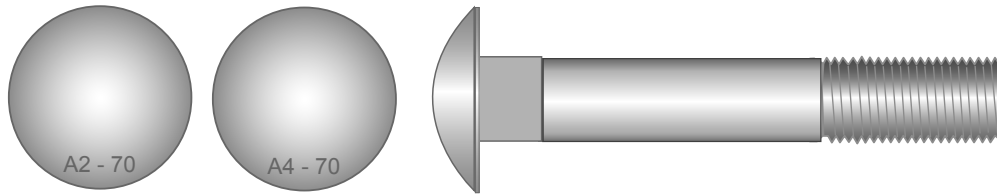
PART #	SIZE	PACK QTY
CBNM1025Z	M10 X 25	100
CBNM1030Z	M10 X 30	100
CBNM1040Z	M10 X 40	75
CBNM1050Z	M10 X 50	75
CBNM1065Z	M10 X 65	50
CBNM1090Z	M10 X 90	50
CBNM10100Z	M10 X 100	50
CBNM10110Z	M10 X 110	50
CBNM10130Z	M10 X 130	50

All Stock is subject to availability

Coach Bolt & Nut stainless steel

Stainless Steel T304

Stainless Steel T316



**T304
(A2)**

**T316
(A4)**



PART #		SIZE	PACK QTY
CBNXM625	CBNXM625T	M6 X 25	50
CBNXM630	CBNXM630T	M6 X 30	50
CBNXM640	CBNXM640T	M6 X 40	50
CBNXM650	CBNXM650T	M6 X 50	50
CBNXM660	CBNXM660T	M6 X 60	50
CBNXM675	CBNXM675T	M6 X 75	50
CBNXM680	CBNXM680T	M6 X 80	50
CBNXM820	CBNXM820T	M8 X 20	25
CBNXM825	CBNXM825T	M8 X 25	25
CBNXM830	CBNXM830T	M8 X 30	25
CBNXM840	CBNXM840T	M8 X 40	25
CBNXM850	CBNXM850T	M8 X 50	25
CBNXM865	CBNXM865T	M8 X 65	25
CBNXM870	CBNXM870T	M8 X 70	25
CBNXM875	CBNXM875T	M8 X 75	25
CBNXM890	CBNXM890T	M8 X 90	25
CBNXM8100	CBNXM8100T	M8 X 100	25
CBNXM8130	CBNXM8130T	M8 X 110	25
CBNXM8130	CBNXM8130T	M8 X 130	25
CBNXM8140	CBNXM8140T	M8 X 140	25
CBNXM8150	CBNXM8150T	M8 X 150	25
CBNXM1040	CBNXM1040T	M10 X 40	25
CBNXM1050	CBNXM1050T	M10 X 50	25
CBNXM1060	CBNXM1060T	M10 X 60	25
CBNXM1065	CBNXM1065T	M10 X 65	25
CBNXM1070	CBNXM1070T	M10 X 70	25
CBNXM1075	CBNXM1075T	M10 X 75	25
CBNXM1080	CBNXM1080T	M10 X 80	25
CBNXM1090	CBNXM1090T	M10 X 90	25
CBNXM10100	CBNXM10100T	M10 X 100	25
CBNXM10110	CBNXM10110T	M10 X 110	25
CBNXM10120	CBNXM10120T	M10 X 120	25

**T304
(A2)**

**T316
(A4)**



PART #		SIZE	PACK QTY
CBNXM10130	CBNXM10130T	M10 X 130	25
CBNXM10140	CBNXM10140T	M10 X 140	25
CBNXM10150	CBNXM10150T	M10 X 150	25
CBNXM10160	CBNXM10160T	M10 X 160	25
CBNXM10180	CBNXM10180T	M10 X 180	10
CBNXM10190	CBNXM10190T	M10 X 190	10
CBNXM10200	CBNXM10200T	M10 X 200	10
CBNXM10220	CBNXM10220T	M10 X 220	10
CBNXM10240	CBNXM10240T	M10 X 240	10
CBNXM10260	CBNXM10260T	M10 X 260	10
CBNXM10280	CBNXM10280T	M10 X 280	10
CBNXM10300	CBNXM10300T	M10 X 300	10
CBNXM1240	CBNXM1240T	M12 X 40	25
CBNXM1250	CBNXM1250T	M12 X 50	25
CBNXM1260	CBNXM1260T	M12 X 60	25
CBNXM1265	CBNXM1265T	M12 X 65	25
CBNXM1275	CBNXM1275T	M12 X 75	25
CBNXM1280	CBNXM1280T	M12 X 80	25
CBNXM1290	CBNXM1290T	M12 X 90	25
CBNXM12100	CBNXM12100T	M12 X 100	25
CBNXM12110	CBNXM12110T	M12 X 110	25
CBNXM12120	CBNXM12120T	M12 X 120	25
CBNXM12130	CBNXM12130T	M12 X 130	25
CBNXM12140	CBNXM12140T	M12 X 140	25
CBNXM12150	CBNXM12150T	M12 X 150	25
CBNXM12160	CBNXM12160T	M12 X 160	10
CBNXM12170	CBNXM12170T	M12 X 170	10
CBNXM12180	CBNXM12180T	M12 X 180	10
CBNXM12200	CBNXM12200T	M12 X 200	10
CBNXM12220	CBNXM12220T	M12 X 220	5
CBNXM12240	CBNXM12240T	M12 X 240	5
CBNXM12260	CBNXM12260T	M12 X 260	5

All Stock is subject to availability



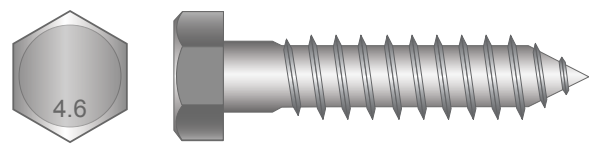
PART #		SIZE	PACK QTY
CBNXM12280	CBNXM12280T	M12 X 280	5
CBNXM12300	CBNXM12300T	M12 X 300	5
CBNXM1650	CBNXM1650T	M16 X 50	10
CBNXM1665	CBNXM1665T	M16 X 65	10
CBNXM1690	CBNXM1690T	M16 X 90	10
CBNXM16100	CBNXM16100T	M16 X 100	10
CBNXM16110	CBNXM16110T	M16 X 110	10
CBNXM16130	CBNXM16130T	M16 X 130	10
CBNXM16150	CBNXM16150T	M16 X 150	10
CBNXM16180	CBNXM16180T	M16 X 180	10
CBNXM16200	CBNXM16200T	M16 X 200	10
CBNXM16220	CBNXM16220T	M16 X 220	5
CBNXM16240	CBNXM16240T	M16 X 240	5
CBNXM16260	CBNXM16260T	M16 X 260	5
CBNXM16280	CBNXM16280T	M16 X 280	5
CBNXM16300	CBNXM16300T	M16 X 300	5
CBNXM20130	CBNXM20130T	M20 X 130	5
CBNXM20180	CBNXM20180T	M20 X 180	5
CBNXM20200	CBNXM20200T	M20 X 200	5

All Stock is subject to availability

Steel Coach Screws

Manufactured to: AS 1393

Material: 4.6 Mild Steel



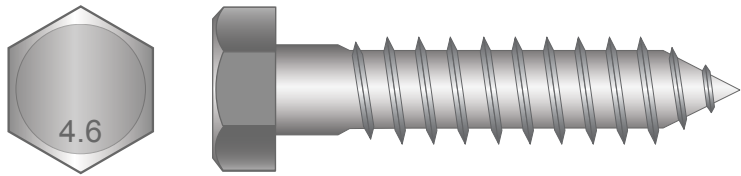
HEAD DIAMETER AF (MM)		PILOT HOLE DIAMETER	
SCREW SIZE	HEAD AF	SCREW SIZE	DRILL DIA
M6	10MM	M6	4.0 - 4.5MM
M8	13MM	M8	5.0 - 6.0MM
M10	16MM	M10	6.5 - 7.5MM
M12	18MM	M12	8.0 - 9.0MM
M16	24MM	M16	12.0 - 13.0MM
M20	30MM	M20	15.0 - 16.0MM
TENSILE STRENGTH - 400 MPa			

Durability:
Hot Dipped Galvanised - 98% Zinc - 45 Microns

Typical Life - 25-50 Years

Coach Screws

Galvanised Class 4.6



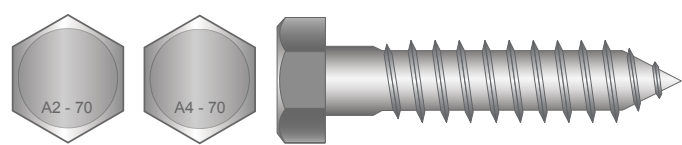
Galv		
PART #	SIZE	PACK QTY
CSM640G	6MM X 40	150
CSM650G	6MM X 50	150
CSM665G	6MM X 65	150
CSM675G	6MM X 75	125
CSM690G	6MM X 90	100
CSM6100G	6MM X 100	100
CSM840G	8MM X 40	75
CSM850G	8MM X 50	75
CSM865G	8MM X 65	75
CSM875G	8MM X 75	75
CSM890G	8MM X 90	50
CSM8100G	8MM X 100	50
CSM1040G	10MM X 40	75
CSM1050G	10MM X 50	75
CSM1065G	10MM X 65	50
CSM1075G	10MM X 75	50
CSM1090G	10MM X 90	50
CSM10100G	10MM X 100	50
CSM10120G	10MM X 120	50
CSM10130G	10MM X 130	50
CSM10150G	10MM X 150	50
CSM10160G	10MM X 160	25
CSM10180G	10MM X 180	25
CSM1240G	12MM X 40	50
CSM1250G	12MM X 50	50
CSM1265G	12MM X 65	50
CSM1275G	12MM X 75	25
CSM1290G	12MM X 90	25
CSM12100G	12MM X 100	25
CSM12120G	12MM X 120	25
CSM12130G	12MM X 130	25
CSM12150G	12MM X 150	25

Galv		
PART #	SIZE	PACK QTY
CSM12180G	12MM X 180	25
CSM12200G	12MM X 200	25
CSM12240G	12MM X 240	20
CSM12260G	12MM X 260	20
CSM12300G	12MM X 300	20
CSM1675G	16MM X 75	10
CSM16100G	16MM X 100	10
CSM16200G	16MM X 200	10
CSM16260G	16MM X 260	10
CSM20150G	20MM X 150	5
CSM20200G	20MM X 200	5

All Stock is subject to availability

Stainless Steel Coach Screws

Manufactured to: Din 571



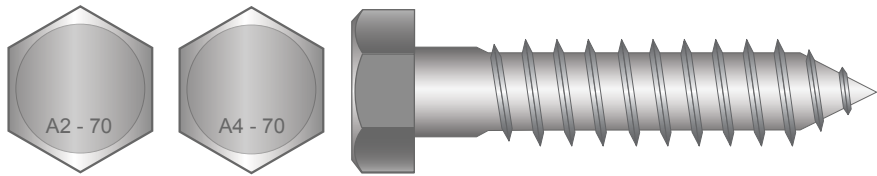
HEAD DIAMETER AF (MM)		PILOT HOLE DIAMETER	
SCREW SIZE	HEAD AF	SCREW SIZE	DRILL DIA
M6	10MM	M6	4.0 - 4.5MM
M8	13MM	M8	5.0 - 6.0MM
M10	16MM	M10	6.5 - 7.5MM
M12	18MM	M12	8.0 - 9.0MM
M16	24MM	M16	12.0 - 13.0MM
M20	30MM	M20	15.0 - 16.0MM
TENSILE STRENGTH - 700 MPa			

TYPICAL CHEMICAL COMPOSITION	
T304 (A2)	T316 (A4)
CHROMIUM 18%	CHROMIUM 18%
NICKEL 8%	NICKEL 8%
	MOLYBDENUM 2.2%

Coach Screws

Stainless Steel T304

Stainless Steel T316



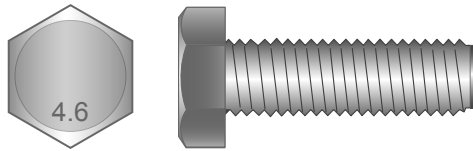
T304 (A2)		T316 (A4)			
PART #		SIZE		PACK QTY	
CSXM640	CSXM640T	6MM X 40	50		
CSXM650	CSXM650T	6MM X 50	50		
CSXM665	CSXM665T	6MM X 65	50		
CSXM675	CSXM675T	6MM X 75	50		
CSXM680	CSXM680T	6MM X 80	50		
CSXM690	CSXM690T	6MM X 90	50		
CSXM6100	CSXM6100T	6MM X 100	50		
CSXM6130	CSXM6130T	6MM X 130	100		
CSXM830	CSXM830T	8MM X 30	25		
CSXM840	CSXM840T	8MM X 40	25		
CSXM850	CSXM850T	8MM X 50	25		
CSXM860	CSXM860T	8MM X 60	25		
CSXM865	CSXM865T	8MM X 65	25		
CSXM875	CSXM875T	8MM X 75	25		
CSXM880	CSXM880T	8MM X 80	25		
CSXM8100	CSXM8100T	8MM X 100	25		
CSXM8120	CSXM8120T	8MM X 120	25		
CSXM1040	CSXM1040T	10MM X 40	25		
CSXM1050	CSXM1050T	10MM X 50	25		
CSXM1065	CSXM1065T	10MM X 65	25		
CSXM1070	CSXM1070T	10MM X 70	25		
CSXM1075	CSXM1075T	10MM X 75	25		
CSXM1080	CSXM1080T	10MM X 80	25		
CSXM1090	CSXM1090T	10MM X 90	25		
CSXM10100	CSXM10100T	10MM X 100	25		
CSXM10120	CSXM10120T	10MM X 120	25		
CSXM10130	CSXM10130T	10MM X 130	25		
CSXM10150	CSXM10150T	10MM X 150	25		
CSXM10180	CSXM10180T	10MM X 180	25		
CSXM1250	CSXM1250T	12MM X 50	25		
CSXM1265	CSXM1265T	12MM X 65	25		
CSXM1270	CSXM1270T	12MM X 70	25		

T304 (A2)		T316 (A4)			
PART #		SIZE		PACK QTY	
CSXM1275	CSXM1275T	12MM X 75	25		
CSXM1280	CSXM1280T	12MM X 80	25		
CSXM1290	CSXM1290T	12MM X 90	25		
CSXM12100	CSXM12100T	12MM X 100	25		
CSXM12120	CSXM12120T	12MM X 120	25		
CSXM12130	CSXM12130T	12MM X 130	25		
CSXM12150	CSXM12150T	12MM X 150	25		
CSXM12180	CSXM12180T	12MM X 180	10		
CSXM12200	CSXM12200T	12MM X 200	10		
CSXM1675	CSXM1675T	16MM X 75	10		
CSXM16130	CSXM16130T	16MM X 130	10		

All Stock is subject to availability

Set Screws

Zinc Plated Class 4.6



Zinc
4.6



PART #	SIZE	PACK QTY
SSM450Z	M4 X 50	200
SSM510Z	M5 X 10	200
SSM512Z	M5 X 12	200
SSM520Z	M5 X 20	200
SSM525Z	M5 X 25	200
SSM530Z	M5 X 30	150
SSM612Z	M6 X 12	200
SSM616Z	M6 X 16	200
SSM620Z	M6 X 20	200
SSM625Z	M6 X 25	200
SSM630Z	M6 X 30	150
SSM635Z	M6 X 35	150
SSM640Z	M6 X 40	150
SSM650Z	M6 X 50	150
SSM665Z	M6 X 65	100
SSM812Z	M8 X 12	125
SSM816Z	M8 X 16	125
SSM820Z	M8 X 20	100
SSM825Z	M8 X 25	100
SSM830Z	M8 X 30	75
SSM835Z	M8 X 35	75
SSM840Z	M8 X 40	75
SSM845Z	M8 X 45	50
SSM850Z	M8 X 50	50
SSM865Z	M8 X 65	50
SSM875Z	M8 X 75	50
SSM1012Z	M10 X 12	100
SSM1016Z	M10 X 16	100
SSM1020Z	M10 X 20	100
SSM1025Z	M10 X 25	100
SSM1030Z	M10 X 30	100
SSM1035Z	M10 X 35	75

Zinc
4.6

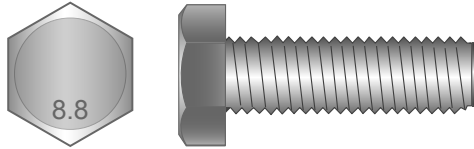


PART #	SIZE	PACK QTY
SSM1040Z	M10 X 40	75
SSM1040Z	M10 X 45	75
SSM1050Z	M10 X 50	75
SSM1055Z	M10 X 55	50
SSM1060Z	M10 X 60	50
SSM1065Z	M10 X 65	50
SSM1075Z	M10 X 75	50
SSM1090Z	M10 X 90	50
SSM10100Z	M10 X 100	50
SSM1220Z	M12 X 20	75
SSM1225Z	M12 X 25	75
SSM1230Z	M12 X 30	75
SSM1235Z	M12 X 35	50
SSM1240Z	M12 X 40	50
SSM1245Z	M12 X 45	50
SSM1250Z	M12 X 50	50
SSM1260Z	M12 X 60	25
SSM1265Z	M12 X 65	25
SSM1275Z	M12 X 75	25
SSM12100Z	M12 X 100	25
SSM1625Z	M16 X 25	25
SSM1630Z	M16 X 30	25
SSM1635Z	M16 X 35	25
SSM1640Z	M16 X 40	25
SSM1650Z	M16 X 50	25
SSM1675Z	M16 X 75	25

All Stock is subject to availability

Set Screws

Zinc Plated Class 8.8



Zinc
8.8



PART #	SIZE	PACK QTY
SSHM612Z	M6 X 12	200
SSHM616Z	M6 X 16	200
SSHM620Z	M6 X 20	200
SSHM625Z	M6 X 25	200
SSHM630Z	M6 X 30	200
SSHM635Z	M6 X 35	200
SSHM640Z	M6 X 40	200
SSHM645Z	M6 X 45	100
SSHM650Z	M6 X 50	100
SSHM812Z	M8 X 12	100
SSHM816Z	M8 X 16	100
SSHM820Z	M8 X 20	100
SSHM825Z	M8 X 25	100
SSHM830Z	M8 X 30	75
SSHM835Z	M8 X 35	75
SSHM840Z	M8 X 40	75
SSHM845Z	M8 X 45	75
SSHM850Z	M8 X 50	50
SSHM890Z	M8 X 90	50
SSHM1016Z	M10 X 16	100
SSHM1020Z	M10 X 20	100
SSHM1025Z	M10 X 25	100
SSHM1030Z	M10 X 30	100
SSHM1035Z	M10 X 35	100
SSHM1040Z	M10 X 40	75
SSHM1045Z	M10 X 45	75
SSHM1050Z	M10 X 50	75
SSHM1055Z	M10 X 55	75
SSHM1060Z	M10 X 60	50
SSHM1065Z	M10 X 65	50
SSHM10100Z	M10 X 100	25
SSHM1220Z	M12 X 20	75

Zinc
8.8



PART #	SIZE	PACK QTY
SSHM1225Z	M12 X 25	75
SSHM1230Z	M12 X 30	75
SSHM1235Z	M12 X 35	50
SSHM1240Z	M12 X 40	50
SSHM1245Z	M12 X 45	50
SSHM1250Z	M12 X 50	25
SSHM1260Z	M12 X 60	25
SSHM1290Z	M12 X 90	25
SSHM12100Z	M12 X 100	25
SSHM1440Z	M14 X 40	25
SSHM1625Z	M16 X 25	25
SSHM1630Z	M16 X 30	25
SSHM1635Z	M16 X 35	25
SSHM1640Z	M16 X 40	25
SSHM1650Z	M16 X 50	25

Set Screws - Metric Fine

Zinc Plated Class 8.8

Zinc
8.8



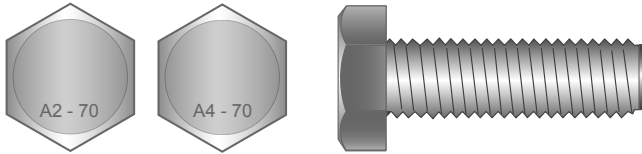
PART #	SIZE	PITCH	PACK QTY
SSMF820Z	M8 X 20	1.00	100
SSMF825Z	M8 X 25	1.00	100
SSMF835Z	M8 X 35	1.00	100
SSMF840Z	M8 X 40	1.00	100
SSMF1030Z	M10 X 30	1.25	100
SSMF1040Z	M10 X 40	1.25	100
SSMF1050Z	M10 X 50	1.25	100
SSMF1225Z	M12 X 25	1.25	100
SSMF1235Z	M12 X 35	1.25	100
SSMF1240Z	M12 X 40	1.25	100

All Stock is subject to availability

Set Screws

Stainless Steel T304

Stainless Steel T316



**T304
(A2)**

**T316
(A4)**



PART #		SIZE	PACK QTY
SSXM48	SSXM48T	M4 X 8	200
SSXM420	SSXM420T	M4 X 20	200
SSXM425	SSXM425T	M4 X 25	200
SSXM430	SSXM430T	M4 X 30	200
SSXM435	SSXM435T	M4 X 35	200
SSXM58	SSXM58T	M5 X 8	200
SSXM510	SSXM510T	M5 X 10	200
SSXM512	SSXM512T	M5 X 12	200
SSXM516	SSXM516T	M5 X 16	200
SSXM520	SSXM520T	M5 X 20	200
SSXM525	SSXM525T	M5 X 25	200
SSXM530	SSXM530T	M5 X 30	100
SSXM540	SSXM540T	M5 X 40	100
SSXM550	SSXM550T	M5 X 50	50
SSXM610	SSXM610T	M6 X 10	200
SSXM612	SSXM612T	M6 X 12	200
SSXM616	SSXM616T	M6 X 16	200
SSXM620	SSXM620T	M6 X 20	200
SSXM625	SSXM625T	M6 X 25	200
SSXM630	SSXM630T	M6 X 30	200
SSXM635	SSXM635T	M6 X 35	200
SSXM640	SSXM640T	M6 X 40	200
SSXM645	SSXM645T	M6 X 45	100
SSXM650	SSXM650T	M6 X 50	100
SSXM660	SSXM660T	M6 X 60	100
SSXM665	SSXM665T	M6 X 65	100
SSXM670	SSXM670T	M6 X 70	100
SSXM675	SSXM675T	M6 X 75	100
SSXM812	SSXM812T	M8 X 12	100
SSXM816	SSXM816T	M8 X 16	100
SSXM820	SSXM820T	M8 X 20	100
SSXM825	SSXM825T	M8 X 25	100

**T304
(A2)**

**T316
(A4)**



PART #		SIZE	PACK QTY
SSXM830	SSXM830T	M8 X 30	100
SSXM835	SSXM835T	M8 X 35	100
SSXM840	SSXM840T	M8 X 40	100
SSXM845	SSXM845T	M8 X 45	100
SSXM850	SSXM850T	M8 X 50	100
SSXM855	SSXM855T	M8 X 55	100
SSXM860	SSXM860T	M8 X 60	100
SSXM870	SSXM870T	M8 X 70	100
SSXM880	SSXM880T	M8 X 80	100
SSXM890	SSXM890T	M8 X 90	100
SSXM1016	SSXM1016T	M10 X 16	100
SSXM1020	SSXM1020T	M10 X 20	100
SSXM1025	SSXM1025T	M10 X 25	100
SSXM1030	SSXM1030T	M10 X 30	100
SSXM1035	SSXM1035T	M10 X 35	100
SSXM1045	SSXM1045T	M10 X 45	100
SSXM1040	SSXM1040T	M10 X 40	100
SSXM1050	SSXM1050T	M10 X 50	100
SSXM1055	SSXM1055T	M10 X 55	50
SSXM1065	SSXM1065T	M10 X 65	50
SSXM1080	SSXM1080T	M10 X 80	50
SSXM1220	SSXM1220T	M12 X 20	100
SSXM1225	SSXM1225T	M12 X 25	50
SSXM1230	SSXM1230T	M12 X 30	100
SSXM1235	SSXM1235T	M12 X 35	100
SSXM1240	SSXM1240T	M12 X 40	100
SSXM1245	SSXM1245T	M12 X 45	50
SSXM1250	SSXM1250T	M12 X 50	50
SSXM1255	SSXM1255T	M12 X 55	50
SSXM1260	SSXM1260T	M12 X 60	50
SSXM1265	SSXM1265T	M12 X 65	50
SSXM1270	SSXM1270T	M12 X 70	50

All Stock is subject to availability



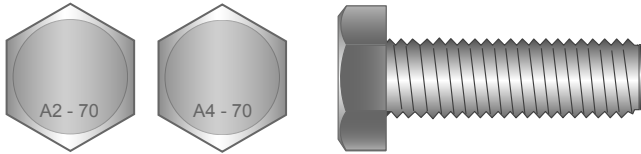
PART #		SIZE	PACK QTY
SSXM1275	SSXM1275T	M12 X 75	50
SSXM1280T	SSXM1280T	M12 X 80	25
SSXM1635	SSXM1635T	M16 X 35	50
SSXM1640	SSXM1640T	M16 X 40	50
SSXM1645	SSXM1645T	M16 X 45	50
SSXM1650	SSXM1650T	M16 X 50	25
SSXM1660	SSXM1660T	M16 X 60	25
SSXM1670	SSXM1670T	M16 X 70	25
SSXM1675	SSXM1675T	M16 X 75	25
SSXM2045	SSXM2045T	M20 X 45	5
SSXM2050	SSXM2050T	M20 X 50	5
SSXM2055	SSXM2055T	M20 X 55	5
SSXM2060	SSXM2060T	M20 X 60	5
SSXM2450	SSXM2450T	M24 X 50	5

All Stock is subject to availability

Set Screws UNC

Stainless Steel T304

Stainless Steel T316



T304
(A2)

T316
(A4)



PART #		SIZE	PACK QTY
SSX1412	SSX1412T	1/4 X 1 1/2"	100
SSX1458	SSX1458T	1/4 X 5/8"	100
SSX1434	SSX1434T	1/4 X 3/4"	100
SSX141	SSX141T	1/4 X 1"	100
SSX14114	SSX14114T	1/4 X 1 1/4"	100
SSX14112	SSX14112T	1/4 X 1 1/2"	100
SSX142	SSX142T	1/4 X 2"	100
SSX14212	SSX14212T	1/4 X 2 1/2"	50
SSX143	SSX143T	1/4 X 3"	50
SSX51612	SSX51612T	5/16 X 1/2"	100
SSX51658	SSX51658T	5/16 X 5/8"	100
SSX51634	SSX51634T	5/16 X 3/4"	100
SSX5161	SSX5161T	5/16 X 1"	100
SSX516114	SSX516114T	5/16 X 1 1/4"	100
SSX516112	SSX516112T	5/16 X 1 1/2"	100
SSX5162	SSX5162T	5/16 X 2"	100
SSX516212	SSX516212T	5/16 X 2 1/2"	50
SSX5163	SSX5163T	5/16 X 3"	50
SSX5164	SSX5164T	5/16 X 4"	50
SSX3812	SSX3812T	3/8 X 1/2"	100
SSX3858	SSX3858T	3/8 X 5/8"	100
SSX3834	SSX3834T	3/8 X 3/4"	100
SSX381	SSX381T	3/8 X 1"	100
SSX38114	SSX38114T	3/8 X 1 1/4"	100
SSX38112	SSX38112T	3/8 X 1 1/2"	100
SSX38134	SSX38134T	3/8 X 1 3/4"	100
SSX382	SSX382T	3/8 X 2"	100
SSX38212	SSX38212T	3/8 X 2 1/2"	50
SSX383	SSX383T	3/8 X 3"	50
SSX38312	SSX38312T	3/8 X 3 1/2"	50
SSX384	SSX384T	3/8 X 4"	50
SSX121	SSX121T	1/2 X 1"	100

T304
(A2)

T316
(A4)



PART #		SIZE	PACK QTY
SSX12z114	SSX12114T	1/2 X 1 1/4"	100
SSX12112	SSX12112T	1/2 X 1 1/2"	50
SSX122	SSX122T	1/2 X 2"	50
SSX12212	SSX12212T	1/2 X 2 1/2"	50
SSX123	SSX123T	1/2 X 3"	50
SSX12312	SSX12312T	1/2 X 3 1/2"	50
SSX124	SSX124T	1/2 X 4"	25
SSX581	SSX581T	5/8 X 1"	25
SSX58112	SSX58112T	5/8 X 1 1/2"	25
SSX582	SSX582T	5/8 X 2"	25
SSX58212	SSX58212T	5/8 X 2 1/2"	25
SSX583	SSX583T	5/8 X 3"	25
SSX584	SSX584T	5/8 X 4"	25
SSX34112	SSX34112T	3/4 X 1 1/2"	25
SSX34134	SSX34134T	3/4 X 1 3/4"	25
SSX342	SSX342T	3/4 X 2"	25
SSX34212	SSX34212T	3/4 X 2 1/2"	25
SSX343	SSX343T	3/4 X 3"	20
SSX344	SSX344T	3/4 X 4"	10
SSX782	SSX782T	7/8 X 2"	10
SSX78212	SSX78212T	7/8 X 2 1/2"	10
SSX783	SSX783T	7/8 X 3"	10
SSX12	SSX12T	1 X 2"	10
SSX1212	SSX1212T	1 X 2 1/2"	10
SSX13	SSX13T	1 X 3"	10
SSX1312	SSX1312T	1 X 3 1/2"	10

All Stock is subject to availability

Rag Bolt & Nut

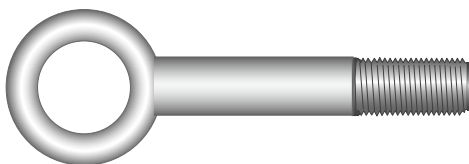
Galvanised Class 4.6



PART #	SIZE	PACK QTY
BRM10150G	M10 X 150	20
BRM10200G	M10 X 200	20
BRM12150G	M12 X 150	10
BRM12200G	M12 X 200	10
BRM12250G	M12 X 250	10
BRM12300G	M12 X 300	10
BRM16200G	M16 X 200	5

Closed Eye Bolts

Galvanised



PART #	SIZE	PACK QTY
BEYEM12150G	M12 X 150	10
BEYEM12180G	M12 X 180	10
BEYEM12200G	M12 X 200	10
BEYEM12250G	M12 X 250	10

All Stock is subject to availability

Joint Connector Bolts

Zinc Chromate

Stainless Steel T304



Z/C

T304

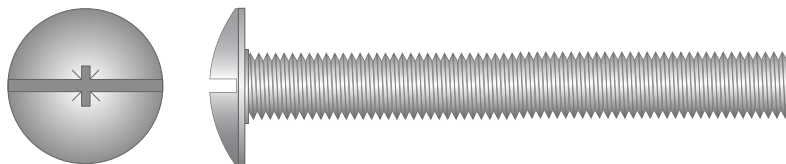
FINISH	SIZE	PACK QTY
Z/C	M6 X 50	100
Z/C	M6 X 60	100
Z/C	M6 X 70	100

FINISH	SIZE	PACK QTY
T304	M6 X 25	100
T304	M6 X 35	100
T304	M6 X 40	100
T304	M6 X 50	100
T304	M6 X 60	100
T304	M6 X 70	100

Other sizes available upon request.

Gutter Bolts & Nuts

Zinc Plated



Zinc



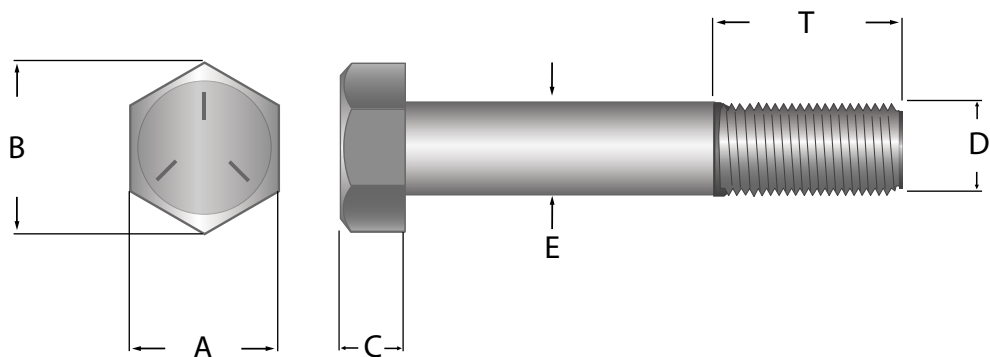
PART #	SIZE	PACK QTY
GBNM510ZJ	M5 X 10	100
GBNM512ZJ	M5 X 12	100
GBNM516ZJ	M5 X 16	100
GBNM520ZJ	M5 X 20	100
GBNM525ZJ	M5 X 25	100
GBNM530ZJ	M5 X 30	100
GBNM540ZJ	M5 X 40	100
GBNM550ZJ	M5 X 50	100
GBNM560ZJ	M5 X 60	50
GBNM580ZJ	M5 X 80	50
GBNM612ZJ	M6 X 12	100

PART #	SIZE	PACK QTY
GBNM616ZJ	M6 X 16	100
GBNM620ZJ	M6 X 20	100
GBNM625ZJ	M6 X 25	100
GBNM630ZJ	M6 X 30	100
GBNM635ZJ	M6 X 35	100
GBNM640ZJ	M6 X 40	50
GBNM645ZJ	M6 X 45	50
GBNM650ZJ	M6 X 50	50
GBNM660ZJ	M6 X 60	50
GBNM680ZJ	M6 X 80	25

All Stock is subject to availability

Product Dimensions

Imperial Hexagon Bolts to AS 2465



		PITCH TPI		A ACROSS FLATS		B ACROSS CORNERS		C HEAD HEIGHT		E SHANK DIAMETER	
DIA		UNC	UNF	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1/4"		20	28	0.438	0.428	0.505	0.488	0.163	0.15	0.25	0.245
5/16"		18	24	0.5	0.489	0.577	0.557	0.211	0.195	0.313	0.306
3/8"		16	24	0.562	0.551	0.65	0.628	0.234	0.226	0.375	0.369
7/16"		14	20	0.625	0.612	0.722	0.698	0.291	0.272	0.438	0.43
1/2"		13	20	0.75	0.736	0.866	0.84	0.323	0.302	0.5	0.493
9/16"		12	18	0.812	0.798	0.938	0.91	0.371	0.348	0.563	0.554
5/8"		11	18	0.938	0.922	1.083	1.051	0.403	0.378	0.625	0.617
3/4"		10	16	1.125	1.100	1.299	1.254	0.483	0.455	0.75	0.741
7/8"		9	14	1.312	1.285	1.516	1.465	0.563	0.531	0.875	0.866
1"		8	12	1.5	1.469	1.732	1.675	0.627	0.591	1	0.99
1.1/8"		7	12	1.688	1.631	1.949	1.859	0.718	0.658	1.125	1.114
1.1/4"		7	12	1.875	1.812	2.165	2.066	0.813	0.749	1.25	1.239
1.3/8"		6	12	2.062	1.994	2.382	2.273	0.878	0.81	1.375	1.363
1.1/2"		6	12	2.25	2.175	2.598	2.48	0.974	0.902	1.5	1.488
1.3/4"		5		2.625	2.538	3.031	2.893	1.134	1.054	1.75	1.738
2"		4.5		3	2.9	3.464	3.306	1.263	1.175	2	1.988

NOMINAL THREAD LENGTHS FOR HEXAGON BOLTS	
NOMINAL LENGTH OF BOLT	THREAD LENGTH (T)
UP TP 6"	Thread = 2D + 1/4"
OVER 6"	Thread = 2D + 1/2"

**WHERE D IS THE DIAMETER

Proof Loads and Tensile Stress

Imperial Hexagon Bolts to AS 2465 - Grade 5 & Grade 8

DIA	UNC THREADS			UNF THREADS		
	TENSILE STRESS AREA in ²	PROOF LOAD lbf	TENSILE LOAD lbf min	TENSILE STRESS AREA in ²	PROOF LOAD lbf	TENSILE LOAD lbf min
GRADE 5						
1/4"	0.0318	2,700	3,800	0.0364	3,100	4,350
5/16"	0.0524	4,450	6,300	0.058	4,900	6,950
3/8"	0.0775	6,600	9,300	0.0878	7,450	10,500
7/16	0.1063	9,050	12,800	0.1187	10,100	14,200
GRADE 8						
1/2"	0.1419	17,000	21,300	0.1599	19,200	24,000
5/8"	0.2260	27,100	33,900	0.256	30,700	38,400
3/4"	0.3340	40,100	50,100	0.373	44,800	56,000
7/8"	0.4620	55,400	69,300	0.509	61,100	76,400
1"	0.6060	72,700	90,900	0.663	79,600	99,400
1.1/8"	0.7630	91,600	114,400	0.856	102,700	128,400
1.1/4"	0.9690	116,300	145,400	1.073	128,800	161,000
1.1/2"	1.4050	168,600	210,800	1.581	189,700	237,000

Steel Hex Head Bolt & Nut

Unified National Fine & Course Specifications

Bolts manufactured to: AS 2465
Bolts : Dimensions to ANSI/ASME B18.2.1
Nuts : Dimensions to ANSI/ASME B18.2.2



SIZE	THREADS PER INCH (TPI)		ACROSS FLATS (AF)
	UNF	UNC	HEAD DIAMETER - INCH
1/4"	28	20	0.438
5/16"	24	18	0.500
3/8"	24	16	0.562
7/16"	20	14	0.625
1/2"	20	13	0.750
9/16"	18	12	0.875
5/8"	18	11	0.938
3/4"	16	10	1.125

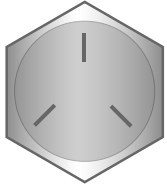
RECOMMENDED TIGHTENING TORQUE			
	SIZE	UNF	UNC
GRADE 5	1/4"	11 Nm	9 Nm
	5/16"	23 Nm	20 Nm
	3/8"	40 Nm	36 Nm
	7/16"	65 Nm	58 Nm
GRADE 8	1/2"	141 Nm	124 Nm
	5/8"	280 Nm	247 Nm
	3/4"	491 Nm	440 Nm

BREAKING LOAD OF BOLT			
	SIZE	CLASS 4.6	CLASS 8.8
GRADE 5	1/4"	19 kN	17 kN
	5/16"	31 kN	28 kN
	3/8"	46 kN	41 kN
	7/16"	63 kN	57 kN
GRADE 8	1/2"	107 kN	85 kN
	5/8"	171 kN	137 kN
	3/4"	249 kN	199 kN

Hex Head Bolt & Nut Grade 5 UNC

Black

Zinc Plated



PART #		SIZE	PACK QTY
BNC1412B	BNC1412Z	1/4 X 1/2"	200
BNC1434B	BNC1434Z	1/4 X 3/4"	200
BNC141B	BNC141Z	1/4 X 1"	200
BNC14114B	BNC14114Z	1/4 X 1 1/4"	200
BNC14112B	BNC14112Z	1/4 X 1 1/2"	200
BNC14134B	BNC14134Z	1/4 X 1 3/4"	200
BNC142B	BNC142Z	1/4 X 2"	200
BNC14212B	BNC14212Z	1/4 X 2 1/2"	150
BNC143B	BNC143Z	1/4 X 3"	150
BNC14312B	BNC14312Z	1/4 X 3 1/2"	150
BNC144B	BNC144Z	1/4 X 4"	150
BNC14412B	BNC14412Z	1/4 X 4 1/2"	150
BNC51634B	BNC51634Z	5/16 X 3/4"	200
BNC5161B	BNC5161Z	5/16 X 1"	200
BNC516114B	BNC516114Z	5/16 X 1 1/4"	200
BNC516112B	BNC516112Z	5/16 X 1 1/2"	200
BNC516134B	BNC516134Z	5/16 X 1 3/4"	150
BNC5162B	BNC5162Z	5/16 X 2"	150
BNC516214B	BNC516214Z	5/16 X 2 1/4"	150
BNC516212B	BNC516212Z	5/16 X 2 1/2"	150
BNC516234B	BNC516234Z	5/16 X 2 3/4"	100
BNC5163B	BNC5163Z	5/16 X 3"	100
BNC516312B	BNC516312Z	5/16 X 3 1/2"	100
BNC5164B	BNC5164Z	5/16 X 4"	100
BNC516412B	BNC516412Z	5/16 X 4 1/2"	100
BNC5165B	BNC5165Z	5/16 X 5"	100
BNC5166B	BNC5166Z	5/16 X 6"	100
BNC3834B	BNC3834Z	3/8 X 3/4"	200
BNC381B	BNC381Z	3/8 X 1"	200
BNC38114B	BNC38114Z	3/8 X 1 1/4"	200
BNC38112B	BNC38112Z	3/8 X 1 1/2"	150
BNC38134B	BNC38134Z	3/8 X 1 3/4"	150

PART #		SIZE	PACK QTY
BNC382B	BNC382Z	3/8 X 2"	100
BNC38214B	BNC38214Z	3/8 X 2 1/4"	100
BNC38212B	BNC38212Z	3/8 X 2 1/2"	100
BNC38234B	BNC38234Z	3/8 X 2 3/4"	100
BNC383B	BNC383Z	3/8 X 3"	100
BNC38312B	BNC38312Z	3/8 X 3 1/2"	50
BNC384B	BNC384Z	3/8 X 4"	50
BNC38412B	BNC38412Z	3/8 X 4 1/2"	50
BNC385B	BNC385Z	3/8 X 5"	50
BNC38512B	BNC38512Z	3/8 X 5 1/2"	50
BNC386B	BNC386Z	3/8 X 6"	50
BNC7161B	BNC7161Z	7/16 X 1"	100
BNC716114B	BNC716114Z	7/16 X 1 1/4"	100
BNC716112B	BNC716112Z	7/16 X 1 1/2"	100
BNC716134B	BNC716134Z	7/16 X 1 3/4"	100
BNC7162B	BNC7162Z	7/16 X 2"	100
BNC716214B	BNC716214Z	7/16 X 2 1/4"	75
BNC716212B	BNC716212Z	7/16 X 2 1/2"	75
BNC716234B	BNC716234Z	7/16 X 2 3/4"	75
BNC7163B	BNC7163Z	7/16 X 3"	75
BNC716312B	BNC716312Z	7/16 X 3 1/2"	75
BNC7164B	BNC7164Z	7/16 X 4"	50
BNC716412B	BNC716412Z	7/16 X 4 1/2"	50
BNC7165B	BNC7165Z	7/16 X 5"	50
BNC716512B	BNC716512Z	7/16 X 5 1/2"	50
BNC7166B	BNC7166Z	7/16 X 6"	50

Minimum quantities may apply on some Zinc Plated bolts.

All Stock is subject to availability

Hex Head Bolt & Nut Grade 8 UNC

Black

Zinc Plated



Black Zinc				Black Zinc			
PART #		SIZE	PACK QTY	PART #		SIZE	PACK QTY
BNC1234	BNC1234Z	1/2 X 3/4"	22	BNC34412B	BNC34412Z	3/4 X 4 1/2"	10
BNC121	BNC121Z	1/2 X 1"	25	BNC345B	BNC345Z	3/4 X 5"	10
BNC12114	BNC12114Z	1/2 X 1 1/4"	25	BNC34512B	BNC34512Z	3/4 X 5 1/2"	10
BNC12112	BNC12112Z	1/2 X 1 1/2"	25	BNC346B	BNC346Z	3/4 X 6"	10
BNC12134	BNC12134Z	1/2 X 1 3/4"	25	BNC34612B	BNC34612Z	3/4 X 6 1/2"	10
BNC122	BNC122Z	1/2 X 2"	25	BNC347B	BNC347Z	3/4 X 7"	10
BNC12214	BNC12214Z	1/2 X 2 1/4"	25	BNC34712B	BNC34712Z	3/4 X 7 1/2"	10
BNC12212	BNC12212Z	1/2 X 2 1/2"	25	BNC348B	BNC348Z	3/4 X 8"	10
BNC12234	BNC12234Z	1/2 X 2 3/4"	25	BNC349B	BNC349Z	3/4 X 9"	5
BNC123	BNC123Z	1/2 X 3"	25	BNC3410B	BNC3410Z	3/4 X 10"	5
BNC12314	BNC12314Z	1/2 X 3 1/4"	25	BNC782B	BNC782Z	7/8 X 2"	10
BNC12312	BNC12312Z	1/2 X 3 1/2"	25	BNC78214B	BNC78214Z	7/8 X 2 1/4"	10
BNC12334	BNC12334Z	1/2 X 3 3/4"	25	BNC78212B	BNC78212Z	7/8 X 2 1/2"	10
BNC124	BNC124Z	1/2 X 4"	25	BNC783B	BNC783Z	7/8 X 3"	10
BNC12412	BNC12412Z	1/2 X 4 1/2"	25	BNC78312B	BNC78312Z	7/8 X 3 1/2"	10
BNC125	BNC125Z	1/2 X 5"	25	BNC784B	BNC784Z	7/8 X 4"	10
BNC12512	BNC12512Z	1/2 X 5 1/2"	25	BNC78412B	BNC78412Z	7/8 X 4 1/2"	10
BNC126	BNC126Z	1/2 X 6"	25	BNC785B	BNC785Z	7/8 X 5"	10
BNC12612	BNC12612Z	1/2 X 6 1/2"	25	BNC78512B	BNC78512Z	7/8 X 5 1/2"	10
BNC127	BNC127Z	1/2 X 7"	25	BNC786B	BNC786Z	7/8 X 6"	10
BNC12712	BNC12712Z	1/2 X 7 1/2"	25	BNC78612B	BNC78612Z	7/8 X 6 1/2"	5
BNC128	BNC128Z	1/2 X 8"	25	BNC787B	BNC787Z	7/8 X 7"	5
BNC12812	BNC12812	1/2 X 8 1/2"	25	BNC788B	BNC788Z	7/8 X 8"	5
BNC34112B	BNC34112Z	3/4 X 1 1/2"	25	BNC789B	BNC789Z	7/8 X 9"	5
BNC34134B	BNC34134Z	3/4 X 1 3/4"	25	BNC7810B	BNC7810Z	7/8 X 10"	5
BNC342B	BNC342Z	3/4 X 2"	25	BNC12B	BNC12Z	1 X 2"	5
BNC34214B	BNC34214Z	3/4 X 2 1/4"	25	BNC1212B	BNC1212Z	1 X 2 1/2"	5
BNC34212B	BNC34212Z	3/4 X 2 1/2"	20	BNC13B	BNC13Z	1 X 3"	5
BNC34234B	BNC34234Z	3/4 X 2 3/4"	20	BNC1312B	BNC1312Z	1 X 3 1/2"	5
BNC343B	BNC343Z	3/4 X 3"	20	BNC14B	BNC14Z	1 X 4"	5
BNC34312B	BNC34312Z	3/4 X 3 1/2"	20	BNC1412B	BNC1412Z	1 X 4 1/2"	5
BNC344B	BNC344Z	3/4 X 4"	10	BNC15B	BNC15Z	1 X 5"	5

All Stock is subject to availability



PART #		SIZE	PACK QTY
BNC1612B	BNC1612Z	1 X 6 1/2"	5
BNC17B	BNC17Z	1 X 7"	5
BNC1712B	BNC1712Z	1 X 7 1/2"	5
BNC18B	BNC18Z	1 X 8"	5
BNC1812B	BNC1812Z	1 X 8 1/2"	5
BNC19B	BNC19Z	1 X 9"	5
BNC110B	BNC110Z	1 X 10"	5
BNC1183B	BNC1183Z	1.1/8 X 3"	5
BNC118312B	BNC118312Z	1.1/8 X 3 1/2"	5
BNC1184B	BNC1184Z	1.1/8 X 4"	5
BNC118412B	BNC118412Z	1.1/8 X 4 1/2"	5
BNC1185B	BNC1185Z	1.1/8 X 5"	5
BNC1186B	BNC1186Z	1.1/8 X 6"	5
BNC1188B	BNC1188Z	1.1/8 X 8"	5
BNC1189B	BNC1189Z	1.1/8 X 9"	5
BNC11810B	BNC11810Z	1.1/8 X 10"	5
BNC1143B	BNC1143Z	1.1/4 X 3"	4
BNC114312B	BNC114312Z	1.1/4 X 3 1/2"	4

Minimum quantities may apply on some Zinc Plated bolts.

Hex Head Bolt & Nut Grade 5 UNF

Black

Zinc Plated



Black Zinc				Black Zinc			
PART #		SIZE	PACK QTY	PART #		SIZE	PACK QTY
BNF1434B	BNF1434Z	1/4 X 3/4"	200	BNF716114B	BNF716114Z	7/16 X 1 1/4"	100
BNF141B	BNF141Z	1/4 X 1"	200	BNF716112B	BNF716112Z	7/16 X 1 1/2"	100
BNF14114B	BNF14114Z	1/4 X 1 1/4"	200	BNF7162B	BNF7162Z	7/16 X 2"	100
BNF14112B	BNF14112Z	1/4 X 1 1/2"	200	BNF716212B	BNF716212Z	7/16 X 2 1/2"	75
BNF142B	BNF142Z	1/4 X 2"	200	BNF7163B	BNF7163Z	7/16 X 3"	75
BNF14212B	BNF14212Z	1/4 X 2 1/2"	150	BNF716312B	BNF716312Z	7/16 X 3 1/2"	75
BNF143B	BNF143Z	1/4 X 3"	150	BNF7164B	BNF7164Z	7/16 X 4"	50
BNF144B	BNF144Z	1/4 X 4"	150	BNF716412B	BNF716412Z	7/16 X 4 1/2"	50
BNF51634B	BNF51634Z	5/16 X 3/4"	200	BNF7165B	BNF7165Z	7/16 X 5"	50
BNF5161B	BNF5161Z	5/16 X 1"	200				
BNF516114B	BNF516114Z	5/16 X 1 1/4"	200				
BNF516112B	BNF516112Z	5/16 X 1 1/2"	200				
BNF5162B	BNF5162Z	5/16 X 2"	150				
BNF516212B	BNF516212Z	5/16 X 2 1/2"	150				
BNF5163B	BNF5163Z	5/16 X 3"	100				
BNF516312B	BNF516312Z	5/16 X 3 1/2"	100				
BNF5164B	BNF5164Z	5/16 X 4"	100				
BNF5166B	BNF5166Z	5/16 X 6"	100				
BNF3834B	BNF3834Z	3/8 X 3/4"	200				
BNF381B	BNF381Z	3/8 X 1"	200				
BNF38114B	BNF38114Z	3/8 X 1 1/4"	200				
BNF38112B	BNF38112Z	3/8 X 1 1/2"	150				
BNF38134B	BNF38134Z	3/8 X 1 3/4"	150				
BNF382B	BNF382Z	3/8 X 2"	100				
BNF38214B	BNF38214Z	3/8 X 2 1/4"	100				
BNF38212B	BNF38212Z	3/8 X 2 1/2"	100				
BNF383B	BNF383Z	3/8 X 3"	100				
BNF38312B	BNF38312Z	3/8 X 3 1/2"	50				
BNF384B	BNF384Z	3/8 X 4"	50				
BNF38412B	BNF38412Z	3/8 X 4 1/2"	50				
BNF385B	BNF385Z	3/8 X 5"	50				
BNF7161B	BNF7161Z	7/16 X 1"	100				

All Stock is subject to availability

Hex Head Bolt & Nut Grade 8 UNF

Black

Zinc Plated



PART #		SIZE	PACK QTY
BNF1234B	BNF1234Z	1/2 X 3/4"	75
BNF121B	BNF121Z	1/2 X 1"	75
BNF12114B	BNF12114Z	1/2 X 1 1/4"	75
BNF12112B	BNF12112Z	1/2 X 1 1/2"	75
BNF12134B	BNF12134Z	1/2 X 1 3/4"	75
BNF122B	BNF122Z	1/2 X 2"	50
BNF12214B	BNF12214Z	1/2 X 2 1/4"	50
BNF12214B	BNF12214Z	1/2 X 2 1/2"	50
BNF12234B	BNF12234Z	1/2 X 2 3/4"	50
BNF123B	BNF123Z	1/2 X 3"	25
BNF12312B	BNF12312Z	1/2 X 3 1/2"	25
BNF124B	BNF124Z	1/2 X 4"	25
BNF12412B	BNF12412Z	1/2 X 4 1/2"	25
BNF125B	BNF125Z	1/2 X 5"	25
BNF12512B	BNF12512Z	1/2 X 5 1/2"	25
BNF126B	BNF126Z	1/2 X 6"	25
BNF12612B	BNF12612Z	1/2 X 6 1/2"	20
BNF127B	BNF127Z	1/2 X 7"	20
BNF128B	BNF128Z	1/2 X 8"	20
BNF916112B	BNF916112Z	9/16 X 1 1/2"	25
BNF9162B	BNF9162Z	9/16 X 2"	25
BNF916212B	BNF916212Z	9/16 X 2 1/2"	25
BNF9163B	BNF9163Z	9/16 X 3"	25
BNF916312B	BNF916312Z	9/16 X 3 1/2"	25
BNF9164B	BNF9164Z	9/16 X 4"	25
BNF581B	BNF581Z	5/8 X 1"	25
BNF58114B	BNF58114Z	5/8 X 1 1/4"	25
BNF58112B	BNF58112Z	5/8 X 1 1/2"	25
BNF58134B	BNF58134Z	5/8 X 1 3/4"	25
BNF582B	BNF582Z	5/8 X 2"	25
BNF58214B	BNF58214Z	5/8 X 2 1/4"	25
BNF58212B	BNF58212Z	5/8 X 2 1/2"	25

PART #		SIZE	PACK QTY
BNF58234B	BNF58234Z	5/8 X 2 3/4"	25
BNF583B	BNF583Z	5/8 X 3"	25
BNF58312B	BNF58312Z	5/8 X 3 1/2"	25
BNF584B	BNF584Z	5/8 X 4"	25
BNF58412B	BNF58412Z	5/8 X 4 1/2"	15
BNF585B	BNF585Z	5/8 X 5"	15
BNF58512B	BNF58512Z	5/8 X 5 1/2"	15
BNF586B	BNF586Z	5/8 X 6"	15
BNF58612B	BNF58612Z	5/8 X 6 1/2"	15

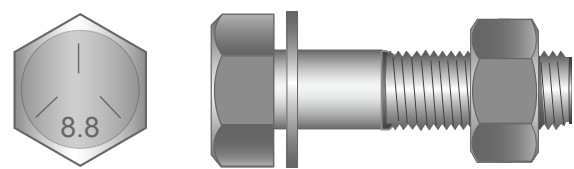
All Stock is subject to availability

Structural Fasteners

High Strength Friction Grip Bolts, Nuts and Washers Specifications

Manufactured to: AS 1252 - 1983 Dimensions
 : AS 1252 - 1996 Mechanical Properties

Material: Class 8.8 High tensile



BOLT & NUT AF (MM)			HARDNESS	
M16	27MM	BOLT & NUT	23 - 36	HRC
M20	32MM	WASHER	26 - 45	HRC
M24	41MM			
M30	50MM	BOLT TENSILE	830 MPA	
M36	60MM			

Batch Sample Test Certification Reports available on request

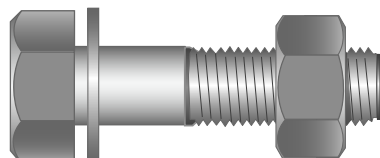
Detailed Specifications for AS 1252 available on request

Durability:
Hot Dipped Galvanised - 98% Zinc - 45 Microns
Bolt/Nut to AS 1214
Washer to AS 1650

All Stock is subject to availability

HSFG Bolt/Nut/Washer

Galvanised Class 8.8



Galv



PART #	SIZE	PACK QTY
BNHSFGM1640G	M16 X 40	EACH
BNHSFGM1645G	M16 X 45	EACH
BNHSFGM1650G	M16 X 50	EACH
BNHSFGM1655G	M16 X 55	EACH
BNHSFGM1660G	M16 X 60	EACH
BNHSFGM1665G	M16 X 65	EACH
BNHSFGM1670G	M16 X 70	EACH
BNHSFGM1675G	M16 X 75	EACH
BNHSFGM1680G	M16 X 80	EACH
BNHSFGM1690G	M16 X 90	EACH
BNHSFGM16100G	M16 X 100	EACH
BNHSFGM16110G	M16 X 110	EACH
BNHSFGM16120G	M16 X 120	EACH
BNHSFGM16130G	M16 X 130	EACH
BNHSFGM16140G	M16 X 140	EACH
BNHSFGM16150G	M16 X 150	EACH
BNHSFGM16180G	M16 X 180	EACH
BNHSFGM16200G	M16 X 200	EACH
BNHSFGM2040G	M20 X 40	EACH
BNHSFGM2045G	M20 X 45	EACH
BNHSFGM2050G	M20 X 50	EACH
BNHSFGM2055G	M20 X 55	EACH
BNHSFGM2060G	M20 X 60	EACH
BNHSFGM2065G	M20 X 65	EACH
BNHSFGM2070G	M20 X 70	EACH
BNHSFGM2080G	M20 X 80	EACH
BNHSFGM2009G	M20 X 90	EACH
BNHSFGM20100G	M20 X 100	EACH
BNHSFGM20110G	M20 X 110	EACH
BNHSFGM20120G	M20 X 120	EACH
BNHSFGM20130G	M20 X 130	EACH

Galv



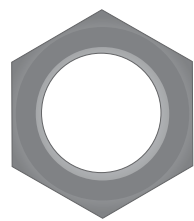
PART #	SIZE	PACK QTY
BNHSFGM20150G	M20 X 150	EACH
BNHSFGM20200G	M20 X 200	EACH
BNHSFGM2450G	M24 X 50	EACH
BNHSFGM2455G	M24 X 55	EACH
BNHSFGM2460G	M24 X 60	EACH
BNHSFGM2465G	M24 X 65	EACH
BNHSFGM2470G	M24 X 70	EACH
BNHSFGM2475G	M24 X 75	EACH
BNHSFGM2480G	M24 X 80	EACH
BNHSFGM2485G	M24 X 85	EACH
BNHSFGM2490G	M24 X 90	EACH
BNHSFGM24100G	M24 X 100	EACH
BNHSFGM24110G	M24 X 110	EACH
BNHSFGM24120G	M24 X 120	EACH
BNHSFGM24130G	M24 X 130	EACH
BNHSFGM24150G	M24 X 150	EACH
BNHSFGM24160G	M24 X 160	EACH
BNHSFGM24180G	M24 X 180	EACH
BNHSFGM3075G	M30 X 75	EACH
BNHSFGM3080G	M30 X 80	EACH
BNHSFGM3090G	M30 X 90	EACH
BNHSFGM30100G	M30 X 100	EACH
BNHSFGM30110G	M30 X 110	EACH
BNHSFGM30120G	M30 X 120	EACH
BNHSFGM30130G	M30 X 130	EACH
BNHSFGM30150G	M30 X 150	EACH
BNHSFGM3690G	M36 X 90	EACH
BNHSFGM36100G	M36 X 100	EACH
BNHSFGM36120G	M36 X 120	EACH
BNHSFGM36130G	M36 X 130	EACH
BNHSFGM36140G	M36 X 140	EACH

Different sizes available on request. Test certificates also available.

All Stock is subject to availability

HSFG Nuts

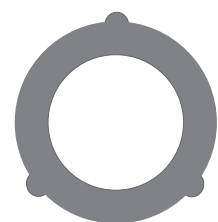
Galvanised Class 8.8



PART #	SIZE	PACK QTY
NHSFGM16G	M16	50
NHSFGM20G	M20	50
NHSFGM22G	M22	25
NHSFGM24G	M24	25
NHSFGM30G	M30	25
NHSFGM36G	M36	25

HSFG Washers

Galvanised Class 8.8

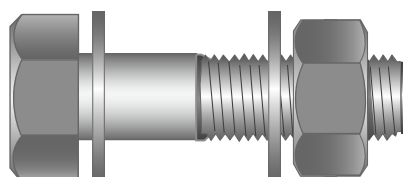


PART #	SIZE	PACK QTY
WHSFGM16G	M16	100
WHSFGM20G	M20	50
WHSFGM22G	M22	50
WHSFGM24B	M24 BLACK	50
WHSFGM24G	M24	50
WHSFGM30G	M30	50
WHSFGM36G	M36	50

All Stock is subject to availability

Galv Assemblies

Galvanised Class 4.6



Galv



PART #	SIZE	PACK QTY
BNM1230GA	M12 X 30	EACH
BNM1235A	M12 X 35	EACH
BNM1240GA	M12 X 40	EACH
BNM1250GA	M12 X 50	EACH
BNM1630GA	M16 X 30	EACH
BNM1635GA	M16 X 35	EACH

Galv

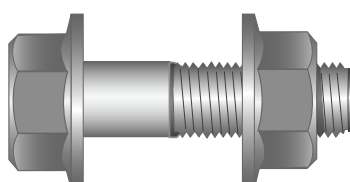
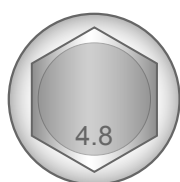


PART #	SIZE	PACK QTY
BNM1640GA	M16 X 40	EACH
BNM1645GA	M16 X 45	EACH
BNM1650GA	M16 X 50	EACH
BNM1680GA	M16 X 80	EACH
BNM2070GA	M20 X 70	EACH
BNM2090GA	M20 X 90	EACH

Purlin Flange Assemblies class 4.6

Zinc Plated

Galvanised



Zinc

Galv



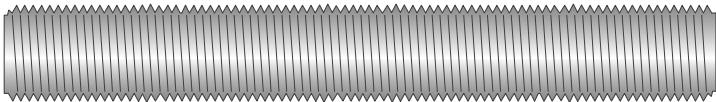
PART #	SIZE	PACK QTY
BNM1230PZ	BNM1230PG M12 X 30	EACH
BNM1635PZ	BNM1635PG M16 X 35	EACH

All Stock is subject to availability

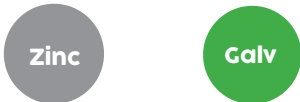
Threaded Rod class 4.6

Zinc Plated Class 4.6

Galvanised Class 4.6



PART #		SIZE
TRM4Z		M4 X 1 METRE
TRM5Z		M5 X 1 METRE
TRM6Z		M6 X 1 METRE
TRM62Z		M6 X 2 METRE
TRM8Z	TRM8G	M8 X 1 METRE
TRM82Z		M8 X 2 METRE
TRM10Z	TRM10G	M10 X 1 METRE
TRM102Z	TRM102G	M10 X 2 METRE
TRM103Z		M10 X 3 METRE
TRM12Z	TRM12G	M12 X 1 METRE

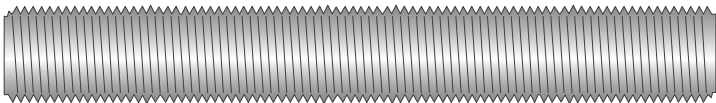


PART #		SIZE
TRM122Z	TRM122G	M12 X 2 METRE
TRM123Z		M12 X 3 METRE
TRM14Z		M14 X 1 METRE
TRM16Z	TRM16G	M16 X 1 METRE
TRM162Z	TRM162G	M16 X 2 METRE
	TRM163G	M16 X 3 METRE
TRM20Z	TRM20G	M20 X 1 METRE
	TRM203G	M20 X 3 METRE
TRM24Z	TRM24G	M24 X 1 METRE
TRM30Z	TRM30G	M30 X 1 METRE

Threaded Rod class 8.8

Zinc Plated Class 8.8

Galvanised Class 8.8



PART #		SIZE
TRM6HZ		M6 X 1 METRE
TRM8HZ		M8 X 1 METRE
TRM10HZ		M10 X 1 METRE
TRM12HZ	TRM12HG	M12 X 1 METRE
	TRM123HG	M12 X 3 METRE
TRM16HZ	TRM16HG	M16 X 1 METRE
	TRM163HG	M16 X 3 METRE
TRM20HZ	TRM20HG	M20 X 1 METRE
	TRM203HG	M20 X 3 METRE
TRM24HZ	TRM24HG	M24 X 1 METRE



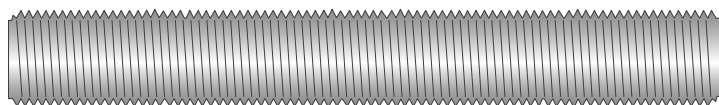
PART #		SIZE
	TRM243HG	M24 X 3 METRE
TRM30HZ	TRM30HG	M30 X 1 METRE
	TRM303HG	M30 X 3 METRE
	TRM36HG	M36 X 1 METRE

All Stock is subject to availability

Threaded Rod Metric Stainless Steel

Stainless Steel T304

Stainless Steel T316



T304
(A2)

T316
(A4)

T304
(A2)

T316
(A4)

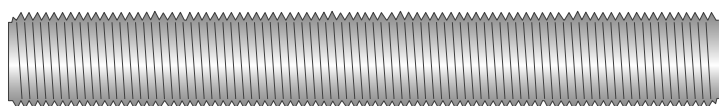
PART #		SIZE
	TRXM3T	M3 X 1 METRE
TRXM4	TRXM4T	M4 X 1 METRE
TRXM5	TRXM5T	M5 X 1 METRE
TRXM6	TRXM6T	M6 X 1 METRE
TRXM8	TRXM8T	M8 X 1 METRE
TRXM10	TRXM10T	M10 X 1 METRE
TRXM12	TRXM12T	M12 X 1 METRE

PART #		SIZE
	TRXM122T	M12 X 2 METRE
TRXM16	TRXM16T	M16 X 1 METRE
	TRXM162T	M16 X 2 METRE
TRXM20	TRXM20T	M20 X 1 METRE
	TRXM202T	M20 X 2 METRE
TRXM24	TRXM24T	M24 X 1 METRE
	TRXM30T	M30 X 1 METRE

Threaded Rod Imperial Stainless Steel

Stainless Steel T304

Stainless Steel T316



T304
(A2)

T316
(A4)

PART #		SIZE
TRX1	TRX1T	1" X 3FT
TRX12	TRX12T	1/2" X 3FT
TRX14	TRX14T	1/4" X 3FT
TRX316	TRX316T	3/16" X 3FT
TRX34	TRX34T	3/4" X 3FT
TRX38	TRX38T	3/8" X 3FT
TRX516	TRX516T	5/16" X 3FT
TRX58	TRX58T	5/8" X 3 FT

* Stud cutting service available. Contact your Account Manager for information.

All Stock is subject to availability

Coupling Nuts

Zinc Plated

Galvanised

Stainless Steel T316



PART #			SIZE	PACK QTY
NCM6Z		NCXM6T	M6	EACH
NCM8Z			M8	EACH
NCM10Z	NCM10G	NCXM10T	M10	EACH
NCM12Z	NCM12G	NCXM12T	M12	EACH
NCM16Z	NCM16G		M16	EACH
NCM20Z	NCM20G		M20	EACH
NCM24Z	NCM24G		M24	EACH

All Stock is subject to availability

