



Grade A490 Structural Bolts

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6, ASTM A490 and ASTM F3125 standards



Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
5/8"-11 Coarse					
3"	Partially Threaded	1 3/4 in	25/64 in	31JK55	10
3 3/4"	Partially Threaded	2 in	25/64 in	31JK56	10
3/4"-10 Coarse					
2 1/2"	Partially Threaded	1 1/2 in	15/32 in	31JK68	10
2 3/4"	Partially Threaded	1 1/2 in	15/32 in	31JK69	10
3"	Partially Threaded	1 1/2 in	15/32 in	31JK70	10
3 1/2"	Partially Threaded	2 in	15/32 in	31JK72	10
7/8"-9 Coarse					
3"	Partially Threaded	1 1/2 in	35/64 in	31JK89	5
3 1/2"	Partially Threaded	2 in	35/64 in	31JK91	5
4"	Partially Threaded	2 1/2 in	35/64 in	31JK93	5
1"-8 Coarse					
6"	Partially Threaded	4 1/4 in	39/64 in	167D24	15
8"	Partially Threaded	6 1/4 in	39/64 in	31JL21	5
1 1/4"-7 Coarse					
7"	Partially Threaded	5 in	25/32 in	31JL46	5
8"	Partially Threaded	6 in	25/32 in	31JL47	5

Grade A394 Tower Bolts

- Tensile strength: 74,000 psi for Type 0; 120,000 psi for Type 1
- Meet ASME B18.2.1, ASTM A394 standards

Rod-shaped bolts used to secure steel-to-steel structural connections, or as high-strength anchors for wind power machines. Corrosion and chemical resistant; made to withstand environmental pressures.



Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A394 Type 0 Steel - Hot Dipped Galvanized					
5/8"-11 Coarse					
1 1/2"	Fully Threaded	—	27/64 in	41MC06	10
2 1/4"	Partially Threaded	3/4 in	27/64 in	41MC09	10
3/4"-10 Coarse					
1 1/2"	Fully Threaded	—	1/2 in	41MC13	10
2 1/2"	Fully Threaded	—	1/2 in	167F24	60
A394 Type 1 Steel - Hot Dipped Galvanized					
5/8"-11 Coarse					
1 1/2"	Fully Threaded	—	27/64 in	41MC23	10
2"	Fully Threaded	—	27/64 in	41MC25	10
2 3/4"	Partially Threaded	1 1/4 in	27/64 in	41MC28	10
3"	Partially Threaded	1 1/2 in	1/2 in	41MC29	10
3/4"-10 Coarse					
2"	Fully Threaded	—	1/2 in	167F34	70
3"	Partially Threaded	1 1/4 in	1/2 in	41MC36	10
3 1/4"	Partially Threaded	1 1/2 in	27/64 in	167F39	50
3 1/2"	Partially Threaded	1 3/4 in	1/2 in	167F40	50

Tension Control Bolts

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6 standards

Heat-treated heavy-duty bolt-nut-washer assemblies are used in steel-to-steel and steel-frame construction or high-strength applications. Bolt heads are domed and not designed to be driven. The end of the shank has a spline that holds the bolt steady while a power wrench fastens the nut. When the nut is tightened, the spline breaks off, showing that the bolt has been properly installed.



Grade A325 Type 1 is strong, heavy-duty steel containing two types of quenched and tempered steel for structural steel-to-steel connections.

Grade A490 Type 1 is made from alloy steel creating a higher strength fastener.

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A325 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2 1/4"	Partially Threaded	3/8 in	15/32 in	4XGX7	270
7/8"-9 Coarse					
2 3/4"	Partially Threaded	1 1/4 in	35/64 in	4XGY9	180
3"	Partially Threaded	1 1/2 in	35/64 in	4XGZ1	170
1"-8 Coarse					
2"	Partially Threaded	1/4 in	39/64 in	4XGZ7	140
A490 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2"	Partially Threaded	5/8 in	15/32 in	4XHL1	280
2 1/2"	Partially Threaded	1 1/8 in	15/32 in	4XHL3	250
1 1/4"-7 Coarse					
3"	Partially Threaded	1 in	45/64 in	4XHP5	85
3 1/2"	Partially Threaded	1 1/2 in	45/64 in	4XHP7	80

Class 10.9 Structural Bolts

- Tensile strength: 145,038 psi
- Meet DIN 6914, ISO 7412 standards



Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
M12-1.75 Coarse					
40-mm	Partially Threaded	17 mm	8 mm	38CT11	100
80-mm	Partially Threaded	57 mm	8 mm	38CT16	50
M16-2.00 Coarse					
70-mm	Partially Threaded	42 mm	10 mm	38CT21	50
80-mm	Partially Threaded	52 mm	10 mm	38CT23	25
M20-2.50 Coarse					
70-mm	Partially Threaded	37 mm	13 mm	38CT30	25
90-mm	Partially Threaded	57 mm	13 mm	38CT34	25
M24-3.00 Coarse					
120-mm	Partially Threaded	81 mm	15 mm	38CT47	20
150-mm	Partially Threaded	111 mm	15 mm	38CT50	15
Hot Dipped Galvanized					
M12-1.75 Coarse					
45-mm	Partially Threaded	22 mm	8 mm	38CV28	100
100-mm	Partially Threaded	77 mm	8 mm	38CV31	50
M16-2.00 Coarse					
40-mm	Partially Threaded	12 mm	10 mm	38CV32	50
75-mm	Partially Threaded	47 mm	10 mm	38CV39	50
120-mm	Partially Threaded	92 mm	10 mm	167F09	50
M20-2.50 Coarse					
55-mm	Partially Threaded	22 mm	13 mm	38CV48	25
60-mm	Partially Threaded	27 mm	13 mm	38CV49	25
70-mm	Partially Threaded	37 mm	13 mm	38CV51	25
M24-3.00 Coarse					
60-mm	Partially Threaded	21 mm	15 mm	38CV67	25
85-mm	Partially Threaded	46 mm	15 mm	38CV71	25
110-mm	Partially Threaded	71 mm	15 mm	38CV76	25

Tension Control Bolts - Made in USA

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6 standards



Granger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

Heat-treated heavy-duty bolt-nut-washer assemblies are used in steel-to-steel and steel-frame construction or high-strength applications. Bolt heads are domed and not designed to be driven. The end of the shank has a spline that holds the bolt steady while a power wrench fastens the nut. When the nut is tightened, the spline breaks off, showing that the bolt has been properly installed.

Grade A325 Type 1 is strong, heavy-duty steel containing two types of quenched and tempered steel for structural steel-to-steel connections.

Grade A490 Type 1 is made from alloy steel creating a higher strength fastener.

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A325 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2"	Partially Threaded	5/8 in	15/32 in	4XHC5	280
2 1/2"	Partially Threaded	1 1/8 in	15/32 in	4XHC7	250
3"	Partially Threaded	1 1/4 in	15/32 in	4XHC9	240
3 1/2"	Partially Threaded	2 1/8 in	15/32 in	4XHD2	220
7/8"-9 Coarse					
2"	Partially Threaded	1 1/2 in	35/64 in	4XHE1	200
2 1/4"	Partially Threaded	3/4 in	35/64 in	4XHE2	190
1"-8 Coarse					
2 1/2"	Partially Threaded	3/4 in	39/64 in	4XHF8	130
3"	Partially Threaded	1 1/4 in	39/64 in	4XHG1	120
4"	Partially Threaded	2 1/4 in	39/64 in	4XHG5	100
A490 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
3 1/2"	Partially Threaded	2 1/8 in	15/32 in	4XHH4	220
4"	Partially Threaded	2 3/8 in	15/32 in	4XHH6	190
7/8"-9 Coarse					
2"	Partially Threaded	1 1/2 in	35/64 in	4XHH7	200
2 1/2"	Partially Threaded	1 in	35/64 in	4XHH9	180
3"	Partially Threaded	1 1/2 in	35/64 in	4XHJ2	170
3 1/2"	Partially Threaded	2 in	35/64 in	4XHJ4	150
1"-8 Coarse					
2"	Partially Threaded	1/4 in	39/64 in	4XHJ5	140
3"	Partially Threaded	1 1/4 in	39/64 in	4XHJ9	120
4"	Partially Threaded	2 1/4 in	39/64 in	4XHK2	100
4 1/2"	Partially Threaded	2 3/4 in	39/64 in	4XHK4	95
1 1/4"-7 Coarse					
3"	Partially Threaded	2 1/2 in	45/64 in	4XHK7	70
5"	Partially Threaded	3 in	45/64 in	4XHK8	60