



THREADED BAR

Anchorage Systems > Threaded Bar

THREADED BARS AND RODS

Threaded Bars – Coil and V Threads				
Bar Designation	Nominal Thread Size	Minimum Net Area Thru Threads	Nominal Weight	Approximate Thread Major Diameter
	Inch (mm)	Inch ² (mm ²)	lb/ft (kg/m)	Inch (mm)
ASTM A615 Grade 75 Full-Threaded Bar (Coil Thread Form)				
#6	3/4 19	0.44 284	1.5 2.24	7/8 22
#7	7/8 22	0.60 387	2.0 3.04	1 25
#8	1 25	0.79 510	2.7 3.97	1-1/8 29
#9	1-1/8 29	1.00 645	3.4 5.06	1-1/4 32
#10	1-1/4 32	1.27 819	4.3 6.40	1-3/8 35
#11	1-3/8 36	1.56 1006	5.3 7.91	1-1/2 38
#14	1-3/4 43	2.25 1452	7.65 11.38	1-7/8 48
#18	2-1/4 57	4.00 2581	13.60 20.24	2-3/8 60
#20	2-1/2 64	4.91 3168	16.69 24.84	2-3/4 70
#28	3-1/2 90	9.61 6200	32.70 48.60	2-3/4 95
Grade 75 threaded bar available in lengths up to 60' long. Alternate Steel grades are A615 gr 60, A449, A193 gr B7, stainless, Grade 90, etc. Also, threaded on each end is available. A hot forged bolt head on one bar end is an option.				
ASTM A722 Grade 150 Full-Threaded Bar (Coil Thread Form)				
1" 26 mm	1 26	0.85 548	3.01 4.48	1-1/8 29
1-1/4" 32 mm	1-1/4 32	1.25 806	4.39 6.54	1-7/16 37
1-3/8" 36 mm	1-3/8 36	1.58 1019	5.56 8.28	1-9/16 40
1-3/4" 46 mm	1-3/4 46	2.58 1664	9.10 13.54	2 51
2-1/2" 64 mm	2-1/2 64	5.16 3331	18.20 27.10	2-3/4 70

Grade 150 ksi bar available in lengths up to 50' long (1-3/4" diameter and above is 40' long and certified as 150 ksi only). Also, threaded on each end is available.

Also Offers

- Centralizers
- Grout Tubing
- Rod End Caps
- Grease and Sheathing
- Spherical Hex Nuts
- Resin Cartridges
- Many Forms of Corrosion Protection

Threaded Rods		
Nominal Tie Rod Diameter	Upset End Thread Size & TPI	Nominal Tie Rod Weight (Approximate)
Inch	Inch	lb/ft
Forged Upset Tie Rods		
1-1/4	1-1/2" – 6	4.18
1-3/8	1-3/4" – 5	5.05
1-1/2	2" – 4.5	6.01
1-5/8	2" – 4.5	7.06
1-3/4	2-1/4" – 4.5	8.19
1-7/8	2-1/4" – 4.5	9.40
2	2-1/2" – 4	10.69
2-1/8	2-1/2" – 4	12.07
2-1/4	2-3/4" – 4	13.53
2-3/8	2-2/3" – 4	15.08
2-1/2	3-1/4" – 4	16.71
2-5/8	3-1/4" – 4	18.42
2-3/4	3-1/2" – 4	20.21
2-7/8	3-1/2" – 4	22.09
3	3-3/4" – 4	24.06
3-1/8	3-3/4" – 4	26.10
3-1/4	4" – 4	28.23
3-3/8	4" – 4	30.45
3-1/2	4-1/4" – 4	32.74
3-5/8	4-1/4" – 4	35.12
3-3/4	4-1/2" – 4	37.59
4	4-1/2" – 4	42.77

Upset Tie Rod Features

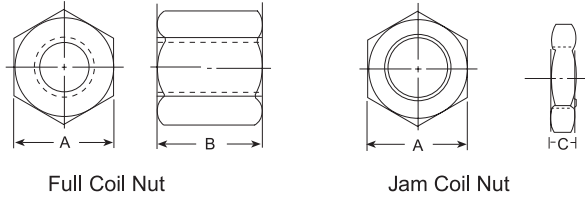
- Tie rods are manufactured to all standard specifications and grades.
- Tie rods are manufactured in lengths up to 60' long.
- All sizes of Heavy Hex nuts (Full and Jam) plus flat washers are stock items.
- Most standard sizes of turnbuckles and clevises are stock items.
- Plate washers and other accessories are available on special order.
- Other upset end sizes are available.

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COIL THREAD NUTS (FULL AND JAM NUTS)

Bar Size	"A" (A.F.) Inch (mm)	"B" (Full Nut) Inch (mm)	"C" (Jam Nut) Inch (mm)
Grade 75 Threaded Bar			
#6	1.250 31.8	1.625 41.3	0.375 9.5
#7	1.438 36.5	1.750 44.5	0.438 11.1
#8	1.625 41.3	2.000 50.8	0.500 12.7
#9	1.875 47.6	2.000 50.8	0.563 14.3
#10	2.000 50.8	2.187 55.5	0.625 15.9
#11	2.250 57.2	2.406 61.1	0.688 17.5
#14	2.750 69.9	3.250 82.6	0.938 23.8
#18	3.500 88.9	3.500 88.9	1.000 25.4
#20	4.000 101.6	4.000 101.6	1.125 28.6
#28	5.500 139.7	6.000 152.4	1.563 39.7
Grade 150 Threaded Bar			
1" 26mm	1.750 44.5	2.000 50.8	0.500 12.7
1-1/4" 32mm	2.250 57.2	2.500 63.5	0.500 12.7
1-3/8" 36mm	2.500 63.5	2.750 69.9	0.563 14.3
1-3/4" 46mm	3.000 76.2	3.500 88.9	0.750 19.1
2-1/2" 64mm	4.250 108.0	4.750 120.7	1.000 25.4



Coil Thread Nut Features

- All threaded items are 100% melted and manufactured in the United States.
- All 'full' coil threaded nuts are designed to exceed 100% of the bars ultimate strength.
- All coil threaded nuts can be produced with any of the various locknut and/or sealing nut elements. Ask one of our Salespeople or Engineers.



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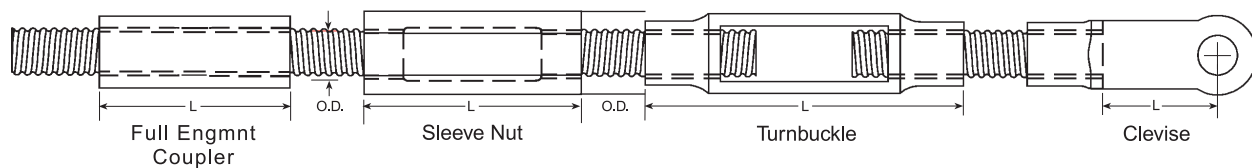
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THREADED BAR CONNECTORS

Bar Size	Full Engagement Coupler		Sleeve Nut		Turnbuckle	Clevis
	"O.D." Inch (mm)	"L" Inch (mm)	"A.F." Inch	"L" Inch	"L" Inch	"L" Inch
Grade 75 Threaded Bar						
#6	1.250 31.8	3.5000 88.9	1-1/4	5-3/4	9-1/4	Dimension on applic
#7	1.375 34.9	4.000 101.6	1-1/2	6-1/4	9-1/2	Dimension on applic
#8	1.625 41.3	4.500 114.3	1-5/8	7	11	Dimension on applic
#9	1.875 47.6	5.000 127.0	1-7/8	7-1/4	11	Dimension on applic
#10	2.000 50.8	5.500 139.7	2-1/8	7-3/4	12-1/2	Dimension on applic
#11	2.250 57.2	6.000 152.4	2-1/4	8-1/2	12-3/4	Dimension on applic
#14	2.875 73.0	8.000 203.2	2-7/8	10-1/2	15-1/2	Dimension on applic
#18	3.500 88.9	9.000 228.6	3-3/4	11-3/4	17	Dimension on applic
#20	4.000 101.6	9.500 241.3	4	13-1/2	19	Dimension on applic
#28	5.500 139.7	12.000 304.8	5-1/2	18-1/2	24	Dimension on applic
Grade 150 ksi Bar						
1" 26mm	1.750 44.5	4.250 108.0	2	7-1/4	12	Dimension on applic
1-1/4" 32mm	2.125 54.0	5.25 133.4	2-3/8	8-1/2	14	Dimension on applic
1-3/8" 36mm	2.500 60.3	5.750 146.1	2-3/4	9-1/2	15-1/2	Dimension on applic
1-3/4" 46mm	3.000 76.2	8.500 215.9	3-1/2	12	18	Dimension on applic
2-1/2" 64mm	4.250 108.0	10.000 254.0	4-1/2	15	21-1/2	Dimension on applic

Connector Features

- Full engagement couplers are available as threaded thru couplers and without the full engagement feature.
- Sleeve nuts and turnbuckles have right hand and left hand threads.
- Sleeve nuts (hex) and couplers (rd.) can be either hex or round shaped – please specify.





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COIL THREAD NUTS - (HEX AND SPHERICAL) STEEL PLATES AND HARDENED WASHERS

Bar Size	Hex and Spherical Nuts			ASTM A-36 Steel Plates		Hardened Washers
	"A" A.F. Inch (mm)	"B" Inch (mm)	"D" Inch (mm)	T x W x L Inch	T x W x L Inch	"O.D." Inch
Grades 40 & 60 Rebar, Only (Hex Nuts)						
#6	1.250 31.8	0.734 18.6	N.A.	3/8 x 6 x 6		1-3/4
#7	1.438 36.5	0.859 21.8	N.A.	1/2 x 6 x 6		2
#8	1.625 41.3	0.984 25.0	N.A.	1/2 x 8 x 8		2
#9	1.813 46.1	1.109 28.2	N.A.	1/2 x 8 x 8		2-1/4
#10	2.000 50.8	1.219 31.0	N.A.	3/4 x 8 x 8		2-1/2
#11	2.188 55.6	1.344 34.1	N.A.	1 x 9 x 9		2-3/4
#14	2.750 69.9	1.719 43.7	N.A.			3-1/4
#18	3.500 88.9	2.203 56.0	N.A.			4-1/2
#20	3.875 98.4	2.453 62.3	N.A.			5
#28	5.375 136.5	3.438 87.3	N.A.			7
Grade 150 ksi Bar (Spherical Nuts)						
1" 26mm	1.750 44.5	2.250 57.2	2.500 63.5	1 x 4 x 7	1-1/4 x 7 x 7	2-1/4
1-1/4" 32mm	2.250 57.2	2.750 70.0	3.125 79.4	1-1/4 x 5 x 8	1-1/2 x 9 x 9	2-3/4
1-3/8" 36mm	2.500 63.5	3.250 82.6	3.625 92.1	1-1/2 x 5 x 10	1-3/4 x 10 x 10	3
1-3/4" 46mm	3.000 76.2	3.500 88.9	4.000 101.6	1-3/4 x 8 x 12	2-1/4 x 12 x 12	3-3/4
2-1/2" 64mm	4.250 108.0	4.750 120.7	6.000 152.4	2-1/2 x 12 x 14	3 x 15 x 15	5

Products Features

- Spherical nuts must be used with dished plate washers – see drawings below.

