

DYSON THREADED BARS AND RODS

DYSON THREADED BARS – COIL and V THREADS				
BAR DESIGNATION	NOMINAL THREAD SIZE	MINIMUM NET AREA THRU THREADS	NOMINAL WEIGHT	APPROXIMATE THREAD MAJOR DIAMETER
	IN (MM)	in sq (MM SQ)	(KG/M)	IN (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)
<ul style="list-style-type: none"> Grade 75 threaded bar available in lengths up to 60' lg. Alternate Steel grades are A615 gr 60, A449, A193 gr B7, stainless, Grade 90, etc. Also, threaded on each end is available. A hot gorged bolt head on one bar end is an option. 				
ASTM A722 GRADE 150 FULL-THREADED BAR (coil thread form)				
1" (26mm)	1 (26)	0.85 (548)	3.01 (4.48)	1-1/8" (29)
1-1/4" (32mm)	1-1/4 (32)	1.25 (806)	4.39 (6.54)	1-7/16" (37)
1-3/8" (36mm)	1-3/8 (36)	1.58 (1019)	5.56 (8.28)	1-9/16" (40)
1-3/4" (46mm)	1-3/4 (46)	2.58 (1664)	9.10 (13.54)	2" (51)
2-1/2" (64mm)	2-1/2 (64)	5.16 (3331)	18.20 (27.10)	2-3/4" (70)
<ul style="list-style-type: none"> Grade 150 ksi bar available in lengths up to 50' long (1-3/4" dia. and above is 40' long and certified as 150 ksi only). Also, threaded on each end is available 				
DYSON ALSO OFFERS – <ul style="list-style-type: none"> CENTRALIZERS GROUT TUBING ROD END CAPS GREASE AND SHEATHING SPHERICAL HEX NUTS RESIN CARTRIDGES MANY FORMS OF CORROSION PROTECTION (see back of packet) 				

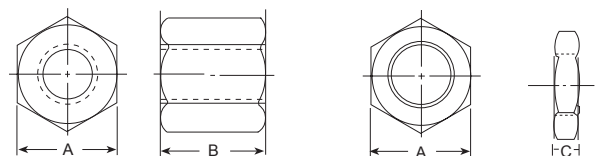
DYSON THREADED RODS		
NOMINAL TIE ROD	UPSET END THREAD SIZE & TPI	NOMINAL TIE ROD WEIGHT- APPROX.
	IN	LBS/LF
FORGED UPSET TIE RODS		
1-1/4"	1-1/2"-6	4.18
1-3/8"	1-3/4"-5	5.05
1-1/2"	2"-4.5	6.01
1-5/8"	2"-4.5	7.06
1-3/4"	2-1/4"-4.5	8.19
1-7/8"	2-1/4"-4.5	9.40
2"	2-1/2"-4	10.69
2-1/8"	2-1/2"-4	12.07
2-1/4"	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
DYSON Upset Tie Rod Features – <ul style="list-style-type: none"> 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. 		

DYSON COIL THREAD NUTS (full and jam nuts)

Bar Size	"A" (A.F.) IN/mm	"B" (full nut) IN/mm	"C" (jam nut) IN/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

Dyson 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 as developed by Dyson. Ask one of our Salespeople or Engineers.



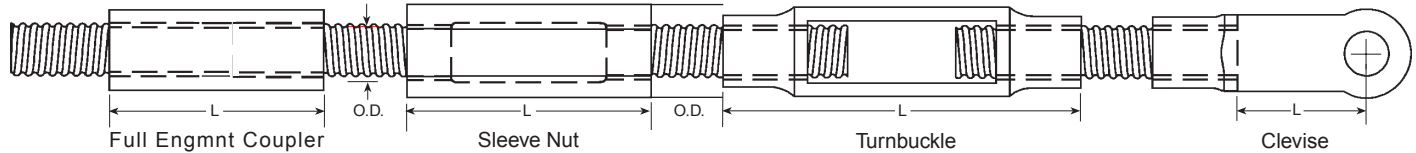
Full Coil Nut

Jam Coil Nut

DYSON THREADED BAR CONNECTORS

BAR SIZE	FULL ENGAGEMENT COUPLER		SLEEVE NUT		TURNBUCKLE	CLEVISE
	"O.D." IN/mm	"L" IN/mm	"O.D." INCHES	"L" INCHES	"L" INCHES	"L" INCHES
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	5.250/133.4	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

- Dyson 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.



DYSON COIL THREAD NUTS – (hex and spherical)

DYSON STEEL PLATES and HARDENED WASHERS

BAR SIZE	HEX NUTS/SPHERICAL NUTS			ASTM A-36 STEEL PLATES		HRD WASHERS
	"A" (A.F.) IN/mm	"B" IN/mm	"D" IN/mm	T x W x L INCHES	T x W x L INCHES	"O.D." INCHES
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"

- Dyson Products Features:
- Spherical nuts must be used with dished plate washers – see drawings below.

