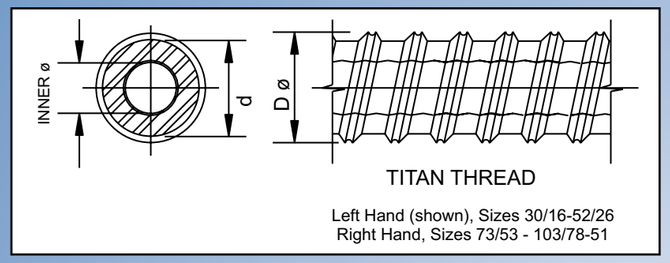
CTS® / TITAN IBO® Hollow Bar

CTS®/TITAN IBO® Hollow Bar Technical Data:

PRODUCT SPECIFICATIONS

The **CTS®/TITAN IBO® Hollow Bar** type denotes external diameter of bar followed by its interal diameter.
For example, a TITAN 30/16 Bar has an external diameter of 30mm and an internal diameter of 16mm.



Left Hand (shown), Sizes 30/16-52/26
Right Hand, Sizes 73/53 - 103/78-51

KEY FEATURES:

1. **Utilization of a CTS®/TITAN IBO® Hollow Bar as the reinforcing Bar.** From the static point of view, a hollow bar is superior to a solid rod of the same cross sectional area with respect to bending moment, shear resistance and surface bond/friction.
2. **The CTS®/TITAN IBO® Hollow Bar is manufactured from high yield micro alloy, high quality structural steel** offering high notch toughness > 40J @ -20 Celcius. This steel is not affected by hydrogen embrittlement or by stress crack corrosion. It has at least the mechanical properties and chemical compositions of ASTM A-706.
3. **The threads on the CTS®/TITAN IBO® Hollow Bar are formed much like the ribs on a reinforcing bar fabricated according to ASTM-A-706.** The deep TITAN threads result in 2.4 times higher bond friction compared to standard drill steel rope-threads.
4. **Continuous threads guarantee that the CTS®/TITAN IBO® Hollow Bar can be cut or coupled anywhere along its length**. A thread pitch of 6 degrees eliminates the need for locking nuts at each coupling.
5. **Certified to ISO 9001.**

Bar Size	Nominal Diameter		Effective Cross-Section	Load Capacity		Weight	Left Hand / Right Hand
D Ø / INNER Ø	Inside	Outside D Ø		Ultimate G.U.T.S.	Yield		
mm	in	in	in²	kips	kips	lbs./lf.	Thread
	mm	mm	mm²	kN	kN	kg/m	
30/16	0.62	1.18	0.53	55.1	42.7	1.8	LEFT
	16	30	340	245	190	2.7	
30/11	0.43	1.18	0.64	72.0	58.5	2.2	LEFT
	11	30	415	320	260	3.3	
40/20	0.78	1.57	1.13	121.4	95.6	3.8	LEFT
	20	40	730	540	425	5.6	
40/16	0.62	1.57	1.40	148.4	118.1	4.8	LEFT
	16	40	900	660	525	7.2	
52/26	1.02	2.05	1.94	208.0	164.2	6.7	LEFT
	26	52	1250	925	730	9.9	
73/53	2.08	2.87	2.50	260.8	218.1	8.9	RIGHT
	53	73	1615	1160	970	13.2	
73/45	1.77	2.87	3.50	356.3	285.5	12.0	RIGHT
	45	73	2260	1585	1270	17.8	
103/78	3.07	4.06	4.87	510.3	404.7	17.0	RIGHT
	78	103	3140	2270	1800	25.3	
Please contact us for availability of the following sizes:							
73/35	1.38	2.87	4.20	419.3	321.5	14.2	RIGHT
	35	73	2710	1865	1430	21.2	
73/56	2.20	2.87	2.11	232.7	186.6	7.3	RIGHT
	56	73	1360	1035	830	10.8	
103/43	1.69	4.06	9.34	934.1	763.9	31.8	RIGHT
	43	103	6023	4155	3398	47.3	
103/51	2.00	4.06	8.80	822.8	600.3	30.0	RIGHT
	51	103	5680	3660	2670	44.6	
127/103	4.05	5.00	5.39	521.6	456.4	19.4	RIGHT
	103	127	3475	2320	2030	28.9	
196/130	5.12	7.72	25.11	2315.5	1607.8	85.7	RIGHT
	130	196	16200	10300	7152	127.5	

Note: Subject to change without notice.

Imperial values converted from metric values; July 2010

1 mm = 0.03937 in **1 m = 3.281 ft** **1 kN = 0.225 kips** **1 kN/mm2 = 145 ksi** **1 kg/m = 0.672 lbs/ft**

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