Done Consider It Done C

# Manufactured Rods and Fastening Solutions











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# **WANHO Standard Thread Selections**

Coarse Thread Series – UNC			Fine Thread Series – UNF			8-Thread Series – 8UN		
Nominal Size and Threads Per In.	Section at Minor Diameter Sq. In.	Tensile Stress Area Sq. In.	Nominal Size and Threads Per In.	Section at Minor Diameter Sq. In.	Tensile Stress Area Sq. In.	Nominal Size and Threads Per In.	Section at Minor Diameter Sq. In.	Tensile Stress Area Sq. In.
1/4 - 20	0.026	0.031	1/4 - 28	0.032	0.036	-	-	-
³/ <sub>8</sub> - 16	0.0678	0.0775	³/ <sub>8</sub> - 24	0.0809	0.0878	_	_	_
7/ <sub>16</sub> - 14	0.0933	0.1063	7/ <sub>16</sub> - 20	0.1090	0.1187	-	-	_
1/2 - 13	0.1257	0.1419	1/2 - 20	0.1486	0.1599	-	-	_
<sup>9</sup> / <sub>16</sub> – 12	0.162	0.182	% - 18	0.189	0.203	; <u> </u>	_	_
½ - 11	0.202	0.226	<sup>5</sup> ⁄ <sub>8</sub> − 18	0.240	0.256	-	_	-
3⁄4 - 10	0.302	0.334	3⁄4 - 16	0.351	0.373	-	-	-
7∕8-9	0.419	0.462	<sup>7</sup> ∕ <sub>8</sub> − 14	0.480	0.509	-	_	-
1 - 8	0.551	0.606	1 - 12	0.625	0.663	1 - 8	0.551	0.606
11/8 - 7	0.693	0.763	11// <sub>8</sub> - 12	0.812	0.856	11/8 - 8	0.728	0.790
11/4 - 7	0.890	0.969	11/4-12	1.024	1.073	11/4 - 8	0.929	1.000
13//8 - 6	1.054	1.155	13/8 - 12	1.260	1.315	13//8 - 8	1.155	1.233
1½-6	1.294	1.405	1½-12	1.521	1.581	1½-8	1.405	1.492
_	_	-	-		-	15/8 - 8	1.68	1.78
13/4 - 5	1.74	1.90	N	1	-	13/4 - 8	1.98	2.08
-	-	_	-	I	-	1½ - 8	2.30	2.41
2 - 41/2	2.30	2.50	( <del>-</del> )	T	1	2 - 8	2.65	2.77
21/4-41/2	3.02	3.25	-	1	1	21/4-8	3.42	3.56
21/2-4	3.72	4.00	-	I	I	2½-8	4.29	4.44
23/4 - 4	4.62	4.93	_	_	-	23/4 - 8	5.26	5.43
3 - 4	5.62	5.97	_		_	3 - 8	6.32	6.51
31/4 - 4	6.72	7.10				31/4 - 8	7.49	7.69
3½-4	7.92	8.33	_	Ι	-	3½ - 8	8.75	8.96
33/4 - 4	9.21	9.66	_	1	1	3¾ - 8	10.11	10.34
4 - 4	10.61	11.08	_	-	_	4 - 8	11.57	11.81

<sup>\*</sup> Custom diameters, lengths, and pitch configurations available

## **Headed Bolts**

WANHO Manufacturing manufactures and distributes the following ferrous and non-ferrous headed bolts.

#### **Grades Available Head Types** Hex Cap A307 A and A307 B A325 Heavy Hex A449 A490 Structural A325 A354 BC A354 BD Lag Bolts F593 304 SS Square Head 316 SS Dome Head 18-8 SS F1554 Carriage B8 Class 1& 2 B8M Class 1 & 2 Socket A193 GR. B7 \*Specials/Custom Physical & Chemical Step **Properties Available** "Custom" Designed

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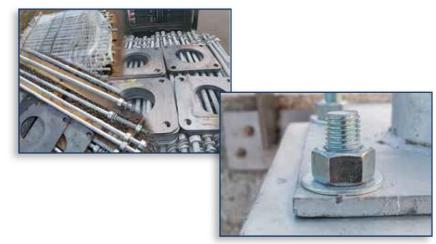
#### **Anchor Bolts**

up to 12 feet.

#### WANHO Manufacturing produces and distributes anchor bolts from sizes 1/4" to 5" and its metric equivelant diameters, with lengths

Anchor bolts can be made from Carbon, Specalized alloys, as well as stainless steel. All products are manufactured to comply with ASTM specifications, including F1554 Grades 35, 55 and 105.

#### Straight - Bent - Headed



F1554 MECHANICAL PROPERTIES										
GRADE	MARKING	SIZE INCHES	TENSILE, KSI	YIELD, KSI MIN.	YIELD, MPa MIN.					
36		½ - 5	58 - 80	36	248					
		1/2 - 2	75 - 95	55	380					
55		2 1/4 - 2 1/2	75 - 95	55	380					
33		2 3/4 - 3	75 - 95	55	380					
		3 1/4 - 4	75 - 95	55	380					
105		½ - 3	125 - 150	105	724					

# **Large Diameter Nuts & Bolts**



WANHO Manufacturing contiunes to lead the Telecom and Utilitity industries in its selections of standard and custom large diameter nuts and bolts. Hot dip galvanized inventory ranges from 1/4" to 5" and metric sized M6 to M100. Products are available in both cut and rolled threads in carbon steel, stainless alloy and specialized exotic materials.

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# **Manufacturing Capabilities**

- Standard and specials to print
- · Custom cutting and secondary operations
- · Custom packaging and kitting
- Products available in carbon steel, various steel alloy, stainless, brass, bronze, and exotics
- · VMI and consignment programs available
- Large global inventories
- ISO 9001 and ISO 14001:2015 TQM certified

# **Production Capacity**

- Steel Rolling Mill = 3,000 MT/Per Month
- Forging Hex Nuts/Headed Products = 1,800 MT/Per Month
- Threaded Bar/Rods = 1,000 MT/Per Month

# **Design and Development**

Our Design Team utilizes all the latest state-of-the-art 3D Modeling software to assist in custom and special projects and products.



#### WANHO GLOBAL LOCATIONS

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