
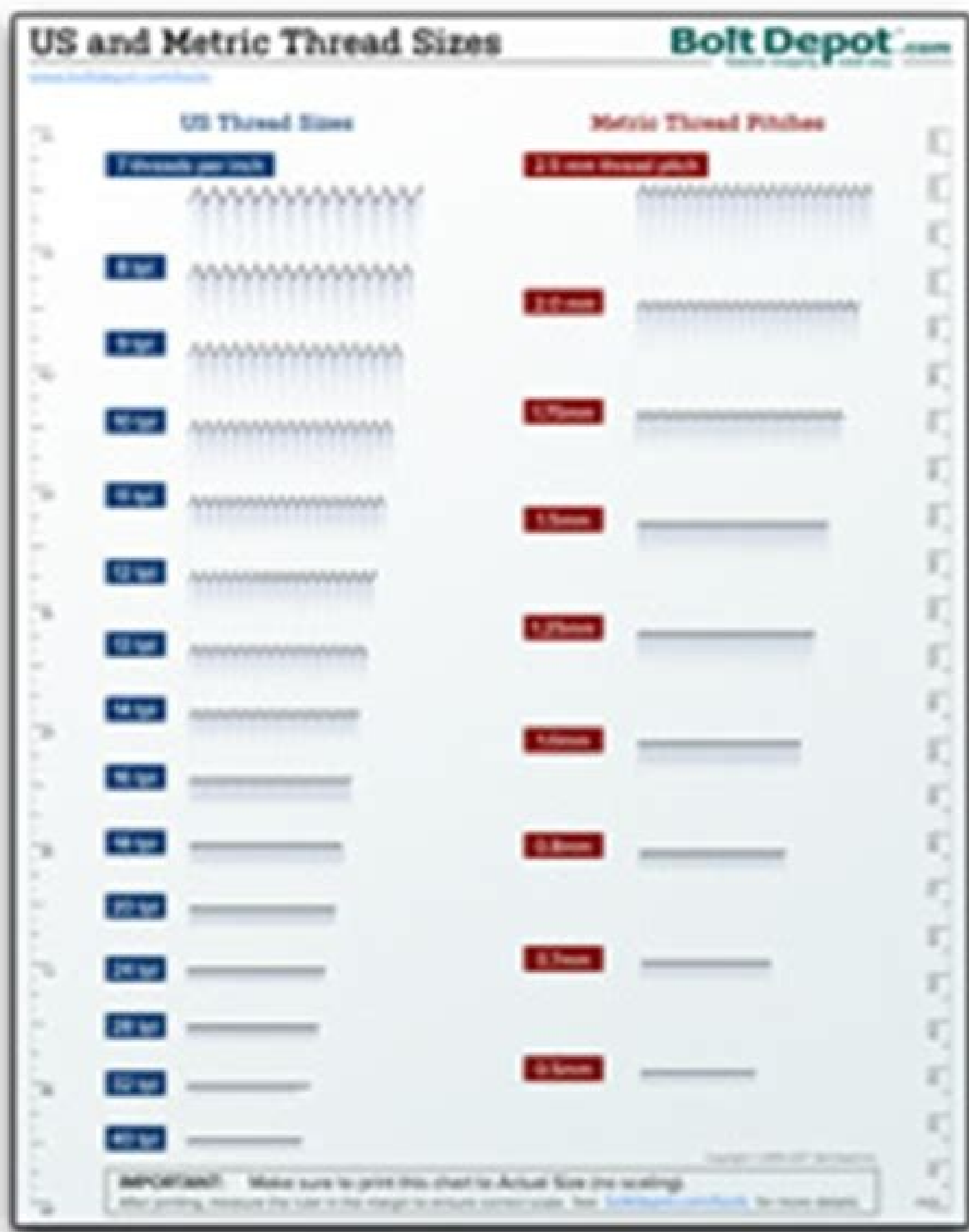


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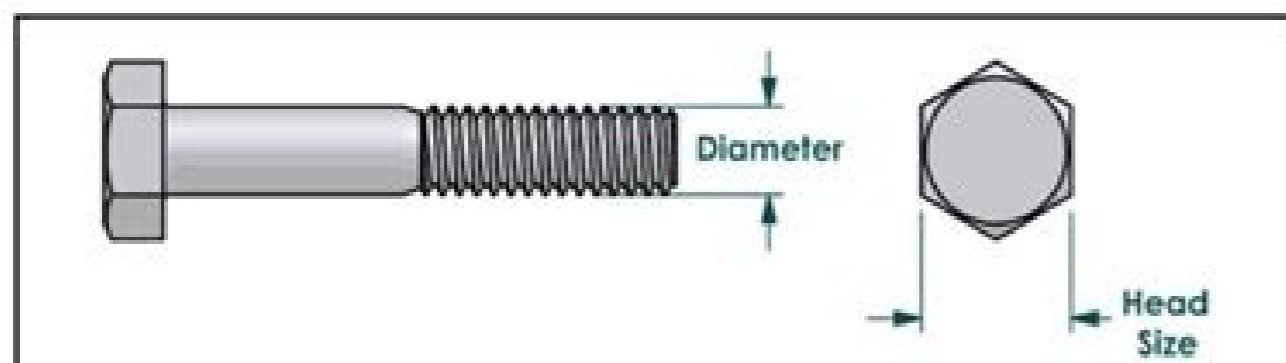
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METRIC TAP-AMERICAN DRILL CONVERSION CHART

English including B.A. numbers	American including Machine Screws	Metric Popular Pitches	Bolt Dia. Inches	Tap Drill	Drill Dia. Inches	Substitute Tap Drill	Drill Dia. Inches
1/16-60			.0625	#3/64	.0469		
10-BA			.0669	#54	.0550		
8-BA			.0748	#53	.0559		
8-BA			.0865	1.8mm	.0709	#50	.0700
3/32-48			.0937	#48	.0760		
7-BA	4-40		.0983	#47	.0785	#43	.0890
6-BA			.1102	2.3mm	.0905		
		3.0-0.5	.1120	#44	.0960	#40	.0980
		3.0-0.6	.1181	2.5mm	.0984	3/32	.0938
			.1181	2.4mm	.0945		
1/8-40	5-40		.1250	#38	.1015		
5-BA			.1259	#37	.1040		
		3.5-0.6	.1378	2.9mm	.1142	#33	.1130
4-BA	6-32		.1380	#36	.1065	#32	.1160
			.1417	3.0mm	.1181		
		4.0-0.7	.1575	3.3mm	.1299	#30	.1285
3-BA	8-32	4.0-0.75	.1575	3.2mm	.1260	1/8	.1250
			.1614	#29	.1360		
2-BA			.1640	#29	.1360		
			.1850	4.0mm	.1575	#22	.1570
3/16-24			.1875	#27	.1440		
3/16-32			.1875	#23	.1540		
	10-24		.1900	#25	.1495		
	10-32		.1900	#21	.1590		
		5.0-0.8	.1968	4.2mm	.1654	#19	.1660
1-BA		5.0-0.9	.1968	4.1mm	.1614	#20	.1610
7/32-24			.2086	4.5mm	.1772	#16	.1770
7/32-26			.2187	#16	.1770		
7/32-28			.2187	#14	.1820		
			.2187	#15	.1800		
0-BA		6-1.0	.2362	5.1mm	.2008	#7	.2010
1/4-20	1/4-20		.2500	5.0mm	.1968	#9	.1960
1/4-26			.2500	#9	.1960		
			.2500	#7	.2010		
			.2500	#4	.2090		
	1/4-28	7-1.0	.2500	#3	.2130	15/64	.2344
5/16-18	5/16-18		.2756	6.0mm	.2362		
			.3125	1/4	.2500		
			.3125	F	.2370		
			.3125	G	.2610		
5/16-26	5/16-24		.3125	I(i)	.2720		
			.3125	J	.2770		
3/8-16		8-1.0	.3150	7.0mm	.2756	I(i)	.2720
		8-1.25	.3150	6.8mm	.2677	H	.2660
			.3750	5/16	.3125		
3/8-20	3/8-16		.3750	5/16	.3125		
3/8-24	3/8-24		.3750	P	.3230		
3/8-26			.3750	Q	.3320		
		10-1.0	.3937	9.0mm	.3320	S	.3480
			.3937		.3543		
7/16-14		10-1.25	.3937	8.8mm	.3465	S	.3480
7/16-14	7/16-14	10-1.5	.3937	8.5mm	.3346	Q	.3320
			.4375	23/64	.3594		
			.4375	U	.3690		
			.4375	3/8	.3750		
7/16-26	7/16-20		.4375	25/64	.3906		
			.4375	Y	.4040		
		12-1.0	.4724	11.0mm	.4331	7/16	.4375
		12-1.25	.4724	10.8mm	.4252	27/64	.4219
		12-1.5	.4724	10.5mm	.4134	Z	.4130
1/2-12		12-1.75	.4724	10.3mm	.4055	Y	.4040
1/2-20	1/2-13		.5000	13/32	.4682		
			.5000	27/64	.4219		
			.5000	7/16	.4375		
			.5000	29/64	.4531		
1/2-26			.5000	29/64	.4531		
		14-1.0	.5612	13.0mm	.5118	33/64	.5156
		14-1.25	.5612	12.8mm	.5039	1/2	.5000
		14-1.5	.5612	12.5mm	.4921	1/2	.5000
		14-1.75	.5612	12.3mm	.4842	31/64	.4844
		14-2.0	.5612	12.0mm	.4724	15/32	.4688

Metric Bolt Head/Wrench Size



Bolt Diameter (mm)	Head/Wrench Size (mm)			
	ASME / IFI / ANSI	ISO*	DIN*	JIS*
4	7	7	7	7
5	8	8	8	8
6	10	10	10	10
7	-	-	11	-
8	13	13	13	12
10	16 (or 15**)	16	17	14
12	18	18	19	17
14	21	-	22	-
16	24	24	24	-
18	-	-	27	-
20	30	30	30	-

These values differ from the ISO standard.

* The DIN and JIS standards have been replaced by the ISO standard. However, the older DIN and JIS head sizes, shown here, are still commonly used.

** According to the standard unless 15mm heads are specifically requested 16mm heads are supplied.

ASME - American Society of Mechanical Engineers
 IFI - Industrial Fastener Institute
 ISO - International Organization for Standardization
 ANSI - American National Standards Institute
 DIN - Deutsches Institut für Normung
 JIS - Japanese Industrial Standard

Size (in)	Head Size (in)	Wrench Size (in)	Quantity
1/8	3/16	1/8	100
1/8	3/16	1/8	500
1/8	3/16	1/8	1000
1/8	3/16	1/8	2000
1/8	3/16	1/8	5000
1/8	3/16	1/8	10000
1/8	3/16	1/8	20000
1/8	3/16	1/8	50000
1/8	3/16	1/8	100000
1/8	3/16	1/8	200000
1/8	3/16	1/8	500000
1/8	3/16	1/8	1000000
1/8	3/16	1/8	2000000
1/8	3/16	1/8	5000000
1/8	3/16	1/8	10000000
1/8	3/16	1/8	20000000
1/8	3/16	1/8	50000000
1/8	3/16	1/8	100000000
1/8	3/16	1/8	200000000
1/8	3/16	1/8	500000000
1/8	3/16	1/8	1000000000
1/8	3/16	1/8	2000000000
1/8	3/16	1/8	5000000000
1/8	3/16	1/8	10000000000
1/8	3/16	1/8	20000000000
1/8	3/16	1/8	50000000000
1/8	3/16	1/8	100000000000
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1/8	3/16	1/8	2000000000000000
1/8	3/16	1/8	5000000000000000
1/8	3/16	1/8	10000000000000000
1/8	3/16	1/8	20000000000000000
1/8	3/16	1/8	50000000000000000
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1/8	3/16	1/8	500000000000000000000
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1/8	3/16	1/8	100000000000000000000000000000000000
1/8	3/16	1/8	200000000000000000000000000000000000
1/8	3/16	1/8	500000000000000000000000000000000000
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1/8	3/16	1/8	2000000000000000000000000000000000000
1/8	3/16	1/8	5000000000000000000000000000000000000
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