

Thread Chart

Threads Per Inch (TPI)	Thread Pitch
<p>When ordering or referencing inch fasteners, Threads Per Inch (TPI) is used instead of the thread pitch.</p> <p>The threads per inch come directly after the thread diameter and before the length (if applicable) when describing an inch fastener. For example, a hex cap screw with a 1/2" thread diameter, 13 threads per inch, and a 2" length could be listed like this:</p> <p>1/2"-13 x 2" Hex Cap Screw</p> <p><small>*This thread is not counted because its crest is outside the one inch measure.</small></p>	<p>Metric fastener threads are described by the pitch rather than the thread density. Thread Pitch is the distance from one thread to the next, measured from crest to crest.</p> <p>Like inch fastener descriptions, the thread parameter of metric fastener descriptions comes after the thread diameter. The example above has a 12mm thread diameter, a 1.75mm thread pitch, and a 55mm length. It is listed like this:</p> <p>M12-1.75 x 55mm Hex Cap Screw</p>

Unified Thread Standard

Coarse Thread (UNC)				Fine Thread (UNF)			
Size	TPI	Size	TPI	Size	TPI	Size	TPI
#1	64	1	8	#0	80	7/8	14
#2	56	1 1/8	7	#1	72	1	12 ¹
#3	48	1 1/4	7	#2	64	1 1/8	12
#4	40	1 3/8	6	#3	56	1 1/4	12
#5	40	1 1/2	6	#4	48	1 3/8	12
#6	32	1 5/8	5	#5	44	1 1/2	12
#8	32	1 3/4	5	#6	40	1 5/8	12
#10	24	1 7/8	5	#8	36	1 3/4	12
#12	24	2	4.5	#10	32	1 7/8	12
1/4	20	2 1/4	4.5	#12	28	2	12
5/16	18	2 1/2	4	1/4	28	2 1/4	12
3/8	16	2 3/4	4	5/16	24	2 1/2	12
7/16	14	3	4	3/8	24	2 3/4	12
1/2	13	3 1/4	4	7/16	20	3	12
9/16	12	3 1/2	4	1/2	20	3 1/4	12
5/8	11	3 3/4	4	9/16	18	3 1/2	12
3/4	10	4	4	5/8	18	3 3/4	12
7/8	9			3/4	16	4	12

Metric Threads

Size	Pitch				
	Coarse	Fine			
M4	0.70	0.50			
M5	0.80	0.50			
M6	1.00	0.75			
M8	1.25	0.75	1.00		
M10	1.50	0.75	1.00	1.25	
M12	1.75	1.00	1.25	1.50	
M14	2.00	1.00	1.25	1.50	
M16	2.00	1.00	1.50		
M18	2.50	1.00	1.50	2.00	
M20	2.50	1.00	1.50	2.00	
M22	2.50	1.00	1.50	2.00	
M24	3.00	1.00	1.50	2.00	
M27	3.00	1.00	1.50	2.00	
M30	3.50	1.00	1.50	2.00	
M33	3.50	1.50	2.00	3.00	
M39	4.00	1.50	2.00	3.00	
M42	4.50	1.50	2.00	3.00	
M48	5.00	1.50	2.00	3.00	4.00

(1) Although 12 TPI is the UNF standard for fine thread 1" fasteners, 14 TPI (UNS) is more widely used and readily available.