

Bolt and Nut Wrench Size Chart

Metric M3–M48 · Inch #6–1-1/2 · across-flats sizes

Metric: ISO 4014/4017 bolts, ISO 4032 nuts, older DIN 931/933/934 where different. Inch: ASME B18.2.1 cap screws and heavy hex, ASME B18.2.2 nuts. Other-system wrench: smallest that fits with at most 1 mm play.

Size	Bolt head	Hex nut	Heavy hex / DIN	Head in other unit	Other-system wrench that fits
M3	5.5 mm	5.5 mm	-	0.217 in	1/4 in (+0.85 mm)
M4	7 mm	7 mm	-	0.276 in	5/16 in (+0.94 mm)
M5	8 mm	8 mm	-	0.315 in	11/32 in (+0.73 mm)
M6	10 mm	10 mm	-	0.394 in	none within 1 mm
M8	13 mm	13 mm	-	0.512 in	none within 1 mm
M10	16 mm	16 mm	17 mm (DIN)	0.630 in	none within 1 mm
M12	18 mm	18 mm	19 mm (DIN)	0.709 in	none within 1 mm
M14	21 mm	21 mm	22 mm (DIN)	0.827 in	none within 1 mm
M16	24 mm	24 mm	-	0.945 in	none within 1 mm
M18	27 mm	27 mm	-	1.063 in	none within 1 mm
M20	30 mm	30 mm	-	1.181 in	1-3/16 in (+0.16 mm)
M22	34 mm	34 mm	32 mm (DIN)	1.339 in	1-3/8 in (+0.92 mm)
M24	36 mm	36 mm	-	1.417 in	1-7/16 in (+0.51 mm)
M27	41 mm	41 mm	-	1.614 in	1-5/8 in (+0.27 mm)
M30	46 mm	46 mm	-	1.811 in	1-13/16 in (+0.04 mm)
M33	50 mm	50 mm	-	1.969 in	2 in (+0.80 mm)
M36	55 mm	55 mm	-	2.165 in	2-3/16 in (+0.56 mm)
M42	65 mm	65 mm	-	2.559 in	2-9/16 in (+0.09 mm)
M48	75 mm	75 mm	-	2.953 in	none within 1 mm
#6	-	5/16 in	-	7.94 mm	8 mm (+0.06 mm)
#8	-	11/32 in	-	8.73 mm	9 mm (+0.27 mm)
#10	-	3/8 in	-	9.52 mm	10 mm (+0.48 mm)
1/4	7/16 in	7/16 in	1/2 in	11.11 mm	12 mm (+0.89 mm)
5/16	1/2 in	1/2 in	9/16 in	12.70 mm	13 mm (+0.30 mm)
3/8	9/16 in	9/16 in	11/16 in	14.29 mm	15 mm (+0.71 mm)
7/16	5/8 in	11/16 in	3/4 in	15.88 mm	16 mm (+0.13 mm)
1/2	3/4 in	3/4 in	7/8 in	19.05 mm	20 mm (+0.95 mm)
9/16	13/16 in	7/8 in	15/16 in	20.64 mm	21 mm (+0.36 mm)
5/8	15/16 in	15/16 in	1-1/16 in	23.81 mm	24 mm (+0.19 mm)
3/4	1-1/8 in	1-1/8 in	1-1/4 in	28.57 mm	none within 1 mm
7/8	1-5/16 in	1-5/16 in	1-7/16 in	33.34 mm	34 mm (+0.66 mm)
1	1-1/2 in	1-1/2 in	1-5/8 in	38.10 mm	none within 1 mm
1-1/8	1-11/16 in	1-11/16 in	1-13/16 in	42.86 mm	none within 1 mm
1-1/4	1-7/8 in	1-7/8 in	2 in	47.63 mm	none within 1 mm
1-3/8	2-1/16 in	2-1/16 in	2-3/16 in	52.39 mm	none within 1 mm
1-1/2	2-1/4 in	2-1/4 in	2-3/8 in	57.15 mm	none within 1 mm