Metric Bolt Size Chart

Metric bolt sizes, M3 to M30

ISO 4014 / 4017 widths across flats. Where the older DIN width differs it is shown in brackets.

Bolt size	Coarse pitch (mm)	Hex width across flats / wrench (mm)	Tap drill (mm)	Close clearance (mm)	Medium clearance (mm)	Free clearance (mm)
M3	0.5	5.5	2.5	3.2	3.4	3.6
M4	0.7	7	3.3	4.3	4.5	4.8
M5	0.8	8	4.2	5.3	5.5	5.8
M6	1	10	5	6.4	6.6	7
M8	1.25	13	6.8	8.4	9	10
M10	1.5	16 (DIN 17)	8.5	10.5	11	12
M12	1.75	18 (DIN 19)	10.2	13	13.5	14.5
M14	2	21 (DIN 22)	12	15	15.5	16.5
M16	2	24	14	17	17.5	18.5
M18	2.5	27	15.5	19	20	21
M20	2.5	30	17.5	21	22	24
M22	2.5	34 (DIN 32)	19.5	23	24	26
M24	3	36	21	25	26	28
M27	3	41	24	28	30	32
M30	3.5	46	26.5	31	33	35

Metric fine-pitch options

Fine pitches listed by at least two sources.

Thread	Diameter (mm)	Pitch (mm)	Tap drill (mm)
M4×0.5	4	0.5	3.5
M5×0.5	5	0.5	4.5
M6×0.75	6	0.75	5.25
M8×1	8	1	7
M8×0.75	8	0.75	7.25
M10×1.25	10	1.25	8.8
M10×1	10	1	9
M10×0.75	10	0.75	9.25

Thread	Diameter (mm)	Pitch (mm)	Tap drill (mm)
M12×1.5	12	1.5	10.5
M12×1.25	12	1.25	10.8
M12×1	12	1	11
M14×1.5	14	1.5	12.5
M14×1.25	14	1.25	12.8
M16×1.5	16	1.5	14.5
M18×1.5	18	1.5	16.5
M20×2	20	2	18

Thread	Diameter (mm)	Pitch (mm)	Tap drill (mm)
M20×1.5	20	1.5	18.5
M22×1.5	22	1.5	20.5
M24×2	24	2	22
M24×1.5	24	1.5	22.5
M27×2	27	2	25
M30×2	30	2	28

Disclaimer. Reference values for information only. Check the manufacturer's data for your part. Charts & Specs is an independent reference site. It is not affiliated with any manufacturer, standards body or code organization, and it uses brand and standard names only to identify what a value applies to.
