

Metric Bolt Diameter and Thread Chart

Tip: Set your PDF viewer to "Actual size" before printing to maintain scale.

This printable 'lay-over' chart helps identify metric bolt diameter and thread pitch. Print at actual size and place next to a bolt for quick sizing.

Bolt Size	Diameter (mm)	Thread Pitch (mm)	Wrench Size	Head Height
M3	3.0mm	0.5 (coarse)	5.5mm	2.0mm
M4	4.0mm	0.7 (coarse)	7mm	2.8mm
M5	5.0mm	0.8 (coarse)	8mm	3.5mm
M6	6.0mm	1.0 (coarse)	10mm	4.0mm
M8	8.0mm	1.25 (coarse) / 1.0 (fine)	13mm	5.3mm
M10	10.0mm	1.5 (coarse) / 1.25 (fine)	16mm / 17mm	6.4mm
M12	12.0mm	1.75 (coarse) / 1.25 (fine)	18mm / 19mm	7.5mm
M14	14.0mm	2.0 (coarse) / 1.5 (fine)	21mm / 22mm	8.8mm
M16	16.0mm	2.0 (coarse) / 1.5 (fine)	24mm	10.0mm
M20	20.0mm	2.5 (coarse) / 1.5 (fine)	30mm	12.5mm
M24	24.0mm	3.0 (coarse) / 2.0 (fine)	36mm	15.0mm

Metric Property Classes (Strength Grades)

Property Class	Tensile Strength	US Equivalent
4.6	400 MPa (58,000 psi)	~Grade 2
4.8	420 MPa (61,000 psi)	~Grade 2
8.8	800 MPa (116,000 psi)	~Grade 5
10.9	1000 MPa (145,000 psi)	~Grade 8
12.9	1200 MPa (174,000 psi)	Higher than Grade 8

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Thread Pitch Standards

Type	Description
Coarse Pitch	ISO Metric Coarse - Most common, general purpose
Fine Pitch	ISO Metric Fine - Precision applications, higher stress

How to Use This Chart

1. **Measure bolt diameter** with calipers (in millimeters)
2. **Check thread pitch** using a thread gauge or pitch ruler
3. **Compare to chart** to identify bolt size and specifications
4. **Property class marking** on head indicates strength (8.8, 10.9, etc.)

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