Metric screw size chart

Common machine screw diameters and coarse pitches

Read **M4 x 0.7 x 25** as a 4 mm nominal thread diameter, 0.7 mm pitch and 25 mm length. Fine-pitch variants also exist.

Size	Diameter (mm)	Diameter (in)	Coarse pitch (mm)
M2	2.00	0.0787	0.40
M2.5	2.50	0.0984	0.45
M3	3.00	0.1181	0.50
M3.5	3.50	0.1378	0.60
M4	4.00	0.1575	0.70
M5	5.00	0.1969	0.80
M6	6.00	0.2362	1.00
M8	8.00	0.3150	1.25
M10	10.00	0.3937	1.50
M12	12.00	0.4724	1.75
M14	14.00	0.5512	2.00
M16	16.00	0.6299	2.00

Measure in three steps

1. Diameter: Measure across opposite outer thread crests, not the head or the valleys. Calibrate the website screen against a card or ruler before using its gauge.

2. Length: Usually measure from under the head to the tip. For flat countersunk heads, include the head. Check the manufacturer drawing for specialty heads.

3. Pitch: Measure ten thread intervals across eleven crests, then divide by ten. A thread gauge gives a more reliable check.

Nominal sizes are labels; actual manufactured diameters have tolerances. Verify the application and thread before fitting a replacement.

US screw size chart

Nominal diameters and common UNC / UNF machine threads

Numbered sizes identify diameter; the number after the dash is threads per inch. **#8-32** means a #8 diameter with 32 TPI. Fractional sizes below are in inches.

Size	Diameter (in)	Diameter (mm)	UNC TPI	UNF TPI
#0	0.0600	1.52	80	-
#1	0.0730	1.85	64	72
#2	0.0860	2.18	56	64
#3	0.0990	2.51	48	56
#4	0.1120	2.84	40	48
#5	0.1250	3.18	40	44
#6	0.1380	3.51	32	40
#8	0.1640	4.17	32	36
#10	0.1900	4.83	24	32
#12	0.2160	5.49	24	28
1/4	0.2500	6.35	20	28
5/16	0.3125	7.94	18	24
3/8	0.3750	9.53	16	24
7/16	0.4375	11.11	14	20
1/2	0.5000	12.70	13	20
5/8	0.6250	15.88	11	18

Close in diameter is not interchangeable

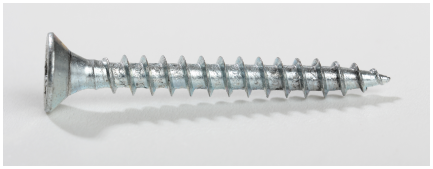
A #8 screw has a nominal diameter of 4.1656 mm and may look like M4, but the thread standards differ. A diameter match alone is not enough. Check pitch, head, length, material and application.

Pitch conversion: millimeters per thread = 25.4 / TPI. These are machine-thread references, not wood-screw pilot-hole recommendations.

Size references: Monster Bolts US screw chart and Accu metric thread chart. Common sizes only; not an exhaustive standards table.

Identify common screw types

Look at the tip, threads and drive - not only the head



Wood screw

A sharp tip, deep threads and often a smooth upper shank. Head styles vary.

Photo: Dmitry Makeev / CC BY 3.0. Shown without cropping.



Machine screw

A blunt end and evenly spaced threads, for a matching threaded hole or nut. Confirm diameter and pitch.

Photo: oomlout / CC BY-SA 2.0. Shown without cropping.



Self-drilling screw

A drill-shaped tip that cuts a starting hole in suitable material. Check its rated material thickness.

Photo: Zheer16 / Pixabay / CC0. Shown without cropping.

Drive recess quick guide

Slotted: one straight slot. **Phillips:** cross recess. **Pozidriv:** cross with extra ribs. **Hex socket:** six straight sides. **Torx-style:** six rounded lobes. Use the correct bit type and size; a drive does not identify the screw family.

Sheet-metal and drywall screws can also have sharp points. Appearance overlaps, so these photos are examples rather than definitive identification. Never force a screw into a mismatched threaded hole.

Open the ScrewMeasure tool | Updated 28 September 2026