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How to Measure a Threaded Stem Caster: 4 Key Dimensions

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Quick answer. To spec a replacement threaded stem caster, capture four measurements: stem outside diameter with a caliper, thread pitch with a thread gauge (UNC TPI or metric mm), threaded length, and overall mount height. All four take under three minutes, and every one must match the original or the replacement will not seat or torque correctly.

The four measurements that actually matter

Measurement	Tool	What it controls
Stem diameter (OD)	Dial or digital caliper	Which nominal size (3/8", 1/2", 5/8", M10, M12)
Thread pitch	Thread pitch gauge or hex nut	UNC vs metric, coarse vs fine
Threaded length	Ruler or caliper depth rod	How far the stem penetrates the mount
Overall height	Ruler, caliper, or tape	Ground-to-mounting-surface clearance

Measurement 2: Thread pitch (TPI or mm)

Nominal OD	Likely UNC pitch	Likely metric pitch
3/8" / 10mm	16 TPI (3/8"-16)	1.5mm (M10-1.5)
1/2" / 12mm	13 TPI (1/2"-13)	1.75mm (M12-1.75)
5/8" / 16mm	11 TPI (5/8"-11)	2.0mm (M16-2.0)



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