

TECHNICAL REFERENCE · PRINT & KEEP

Overall Height for Casters Guide

One-page quick reference · Full engineering guide + live tools at the QR codes below

Quick answer. Caster overall height (OAH) is the vertical distance from the floor to the top of the mounting plate or stem base. Match OAH within 1/16 inch across all casters on a cart; larger mismatches cause rocking and uneven load distribution. Wheel diameter, swivel section height, and mount style drive the final dimension.

Components That Drive OAH

Component	Typical Contribution	Notes
Wheel diameter	2-12 inches	Largest OAH driver
Rig cradle depth	1.5-3 inches	Heavy-duty rig is deeper
Plate thickness	3/16-3/8 inch	Thicker for heavy-duty
Kingpin stack height	0.5-1 inch	Kingpinless often shorter
Offset (swivel)	1-2.5 inches	Adds to footprint, not height
Expanding stem adapter	0.25-0.5 inch	Changes stem OAH

Low-Profile Caster Selection

OAH	Typical Wheel	Load Range	Application
2.5-3 in	2 in wheel	100-250 lb	Low-profile dollies
3-4 in	3 in wheel	200-500 lb	Under-counter carts
4-5 in	4 in wheel	400-1,200 lb	Restricted clearance carts
5-6 in	5 in wheel	600-1,800 lb	General industrial



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