

TECHNICAL REFERENCE · PRINT & KEEP

Mounting Height for Casters Guide

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

Quick answer. Caster mounting height is the vertical distance from the floor to the top of the mounting plate, measured with the caster installed and loaded to rated capacity. An unloaded caster sits up to 1/4 inch taller than its published height. Match height tolerance to duty class on retrofits, since a half-inch error breaks door and conveyor clearances.

Mounting Height Tolerance by Duty Class

Duty Class	Typical OAH	Acceptable Tolerance	Wheel Size Range	Retrofit Sensitivity
Light	3.625" to 5"	± 1/8"	2" to 4"	High (cart nesting)
Medium	5" to 6.5"	± 1/4"	4" to 5"	Medium-high
Industrial	6.5" to 8"	± 1/4"	5" to 6"	Medium
Heavy Industrial	8" to 9.5"	± 3/8"	6" to 8"	Medium-low
Extra Heavy	9.5" to 11.5"	± 1/2"	8" to 10"	Low (new builds)
Kingpinless	8" to 13"	± 1/4"	6" to 12"	High (AGV match)

Retrofit When Mounting Heights Don't Match

Retrofit Approach	Height Adjustment	Install Time	Cost per Caster	When to Use
Spacer/shim plate	+ 1/8" to 1/2"	10 min	Low	New caster sits lower than needed
Smaller wheel diameter	- 1" to 2"	None (reorder)	Same	New caster sits taller than needed
Low-profile caster series	- 1/2" to 1.5"	None (reorder)	+10 to 20%	Tight door or conveyor clearance
Cut-to-fit mount plate	- 1/8" to 1/4"	45 min	Medium	Fleet retrofit, no stock option fits
Custom caster build	To drawing	Lead time	High	OEM run, 50+ units



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