

TECHNICAL REFERENCE · PRINT & KEEP

Bolt Hole Pattern for Casters Sizing & Spec

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Quick answer. Standard caster bolt hole patterns cluster by duty class: 2-1/2 x 3-5/8 inches with 5/16 inch bolts for light duty, 3 x 4-1/2 inches with 3/8 inch bolts for medium duty, and 4-1/2 x 6-1/4 inches with 1/2 inch bolts for heavy duty. Never drill the caster plate; use slotted plates or drill the cart frame.

Standard Bolt Hole Patterns

Duty Class	Plate Size	Bolt Hole Pattern	Bolt Diameter
Light-duty	3-1/8 × 4-1/8 in	2-1/2 × 3-5/8 in	5/16 in
Institutional	3 × 4 in	2-3/8 × 3-5/8 in	5/16 in
Medium-duty	4 × 4-1/2 in	2-5/8 × 3-5/8 in	3/8 in
Standard industrial	4 × 5 in	3 × 4-1/2 in	3/8 in
Heavy-duty	5 × 6-1/4 in	4-1/2 × 6-1/4 in (slotted 4 × 4-1/2)	1/2 in
Super heavy-duty	6-1/2 × 7-1/2 in	5-1/4 × 7-1/4 in	5/8 in

Retrofit Rules

Situation	Best Approach	Time
Exact pattern match	Direct swap	30 min/caster
1/4 inch off, bolt match	Slotted plate	Same
Different pattern, same bolt	Adapter plate	2-4 hr/cart
Different pattern, different bolt	Re-drill frame	4-8 hr/cart
Frame too thin to re-drill	New cart frame	Days



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