

TECHNICAL REFERENCE · PRINT & KEEP

Best Casters for Concrete Floors: Warehouse, Garage

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Quick answer. Polyurethane is the best caster wheel for most concrete floors: 85A durometer for polished, sealed, or epoxy-coated concrete (300 to 1,200 lb per wheel), 95A for raw warehouse slab and garages (500 to 2,500 lb). Choose 6 inch or larger diameters to clear 1/4 inch control joints; use pneumatic wheels on cracked or outdoor concrete.

Wheel Material by Concrete Type

Wheel Material	Best Concrete Use	Load Range (per wheel)	Floor Protection	Chemical Resistance
Polyurethane 85A	Polished, epoxy, sealed	300-1,200 lb	Excellent	Good
Polyurethane 95A	Warehouse, raw slab, garage	500-2,500 lb	Very good	Good
Phenolic	Heavy smooth concrete, ovens	1,000-5,000 lb	Fair (leaves dust trail)	Excellent
Glass-filled nylon	Washdown, chemical bays	800-3,500 lb	Good	Excellent
Forged steel	Extreme load on raw slab	2,000-40,000+ lb	Poor (marks)	Excellent
Mold-on rubber	Cracked or uneven concrete	200-600 lb	Excellent	Fair
Pneumatic	Outdoor, rough, gravel transition	200-1,200 lb	Excellent	Fair

Diameter and Load Sizing

Total Cart Weight	Per-Wheel Load (4 wheels)	Wheel Diameter	Tread Width	Typical Wheel
Up to 600 lb	Up to 200 lb	3-4 inch	1-1.25 inch	85A polyurethane
600-1,600 lb	200-500 lb	4-6 inch	1.25-2 inch	90A polyurethane
1,600-4,000 lb	500-1,200 lb	6-8 inch	2-2.5 inch	95A polyurethane
4,000-8,000 lb	1,200-2,500 lb	8-10 inch	2.5-3 inch	95A poly or phenolic
8,000-16,000 lb	2,500-5,000 lb	8-12 inch	3-4 inch	Phenolic or forged steel
16,000+ lb	5,000+ lb	10-14 inch	3-5 inch	Forged steel



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