

TECHNICAL REFERENCE · PRINT & KEEP

Service Life & Wear of Casters Sizing & Spec

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

Quick answer. Industrial caster service life ranges from 6 months to 7 years depending on six inputs: load ratio versus static rating, weekly duty hours, floor condition, bearing type, wheel chemistry, and maintenance. Running at 40 to 60 percent of static rating on sealed concrete with quarterly inspection reaches the 5 to 7 year end of the range.

Wear Modes: Where Casters Actually Fail

Mode	Signal	Typical Cause	Typical Remedy
Wheel tread wear	Flat spots, chunking	Wrong wheel for floor	Replace wheel set
Bearing failure	Noise, heat, drag	Missed repack	Repack or replace
Rig deformation	Yoke opens, fork bends	Shock overload	Replace caster
Kingpin loosening	Wobble, sticky swivel	Missed torque check	Retorque or replace
Thread / bolt fatigue	Backed-out hardware	Missed retorque	Replace hardware

Replacement Thresholds: Don't Wait for Failure

Duty Class	Wheel Replacement	Bearing Service	Full Caster Replacement
Low (under 10 hr/wk)	5-7 years	Annual inspection	7-10 years
Medium (10-40 hr/wk)	3-5 years	Annual repack	5-7 years
High (40-80 hr/wk)	18-36 months	Quarterly repack	3-5 years
Continuous (80+ hr/wk)	9-18 months	Monthly repack	2-3 years
Powered / AGV	6-12 months	Monthly inspection	1-2 years



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