

TECHNICAL REFERENCE · PRINT & KEEP

# Best Casters for Heavy Equipment: Load & Rig Guide

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

**Quick answer.** Heavy equipment casters need a spec floor above 1,500 lb per wheel: forged kingpinless rigs, sealed precision bearings, phenolic or forged steel wheels, and plate mounts with Grade 8 fasteners. Above 3,000 lb per wheel, fatigue and shock govern rather than load rating, and polyurethane wheel cores start to derate.

## Rig Class and Construction

Per-Wheel Load	Rig Class	Raceway	Top Plate	Fastener Grade
1,500-2,500 lb	Heavy duty kingpinless	Forged hardened steel	3/8" to 1/2" thick	Grade 5 minimum
2,500-4,000 lb	Extra heavy kingpinless	Forged hardened steel	1/2" to 5/8" thick	Grade 8 preferred
4,000-6,000 lb	Forged extra heavy	Forged + heat treated	5/8" to 3/4" thick	Grade 8 mandatory
6,000-10,000 lb	Industrial forged	Forged + hardened race	3/4" to 1" thick	Grade 8 stainless
10,000+ lb	Custom forged	Tapered roller raceway	1"+ thick, custom pattern	Grade 9+ or custom



**SCAN · THIS GUIDE**

Reopen the full guide and interactive tools on your phone. Always current.



**SCAN · ALL 18 FREE TOOLS**

Load & derating calculators, push and ramp force, bolt pattern identifier, wheel material selector, failure diagnosis tool, AGV sizing + more.

**WHY ENGINEERS USE CASTERHQ**

Free application engineering review  
Same-day RFQ response & shipping  
Albion · Hamilton · Colson · P&H in stock  
Ships from Mansfield, TX

**844-439-4335**