KGxpress

fast – beneficial – reliable

Comparison of features of roller bearings

	radial load capacity	axial load capacity	combined load capacity	high torque load	high speeds	high running accuracy	high rigidity	quiet running	compensation of misalignment	property of locating bearing	property of non-locating bearing
Deep groove ball bearings	★	★ ↔	★ ↔	☆	★★★	★★★	★	★★★	☆	★★ ↔	★
Double row deep groove ball bearings	★★	★ ↔	★ ↔	★	★★	★	★	★★★	☆	★★ ↔	★
Angular contact ball bearings	★	★ ←	★★ ←	☆	★★	★★★	★	★★	☆	★★ ←	⊘
Double row angular contact ball bearings	★★	★ ↔	★★ ↔	★	★	★★	★★	★★	⊘	★★ ↔	★
Self-aligning ball bearings	★	☆	☆	⊘	★★	★★	☆	★★	★★★	★ ↔	★
Cylindrical roller bearings	★★	⊘	⊘	⊘	★★	★★	★★	★★	☆	⊘	★★★
a b	★★	a ★ ← b	a ★ ↔ b	⊘	★★	★★	★★	★	☆	a ★★ ↔ b	a ★ ←
Needle roller bearings	★★	⊘	⊘	⊘	★	★★	★★	★	⊘	⊘	★★★
Drawn cup needle roller bearings	★★	⊘	⊘	⊘	★	★	★★	★	⊘	⊘	★★★
Tapered roller bearings	★★	★★ ←	★★★ ←	☆	★★	★	★★	★	☆	★★★ ←	⊘
Spherical roller bearings	★★★	★ ↔	★★★ ↔	⊘	★★	★	★★	★	★★★	★★ ↔	★
Axial deep groove ball bearings	⊘	★ ←	⊘	⊘	☆	★★	★	☆	☆	★★ ←	⊘
Axial needle roller bearings	⊘	★★ ←	⊘	⊘	☆	★	★★	☆	⊘	★★ ←	⊘
Needle roller / axial cylindrical roller bearings	★★	★★ ←	★★ ←	⊘	☆	★	★★★	☆	⊘	★★ ←	⊘
Needle roller bearing NKIA	★★	☆ ←	★ ←	⊘	★	★★	★★	★	⊘	★ ←	⊘
Needle roller bearing NKIB	★★	☆ ↔	★ ↔	⊘	★	★★	★★	★	⊘	★ ↔	⊘
Needle roller / axial ball bearings NX	★★	★ ←	★ ←	⊘	☆	★★	★★	☆	⊘	★ ←	⊘
Needle roller / axial ball bearings NKX	★★	★★ ←	★★ ←	⊘	★	★★	★★	★	⊘	★★ ←	⊘
Axial cylindrical roller bearings	⊘	★★★ ←	⊘	⊘	☆	★	★★★	☆	⊘	★★★ ←	⊘

All indications were made carefully and verified. Kugellager-Express doesn´t assume any liability for incomplete or false indications.

★★★ excellent ★★ good ★ average ☆ low ⊘ inappropriate

← in one direction ↔ in both directions