

31310 J2/QCL7CDF Matched tapered roller bearings arranged face-to-face



Matched tapered roller bearings arranged face-to-face

Matched tapered roller bearings arranged face-to-face (X-arrangement, load lines diverge towards the bearing axis) accommodate high radial loads and axial loads in both directions. The precision manufactured intermediate ring between the outer rings enables a defined internal clearance or preload to be achieved when mounted. Matched tapered roller bearings are typically used in gearboxes, hoisting equipment, rolling mills, and machines in the mining industry.

- High radial load carrying capacity
- Designed for axial loads in both directions
- Relatively high stiffness
- Surface finish on the contact surfaces of the rollers and raceways that enhances operational reliability

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width, total	58.5 mm
Width, inner ring	54 mm
Width, outer ring	58.5 mm
Contact angle	28.811 °

Performance

Basic dynamic load rating	208 kN
Basic static load rating	240 kN
Reference speed	3 600 r/min
Limiting speed	6 000 r/min

Properties

Bearing part	Complete bearing
Number of rows	2
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Face-to-face (X)
Matched arrangement	Face-to-face (X)
Number of bearings in matched set	2

Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With

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