

# 32028 X/DF Matched tapered roller bearings arranged face-to-face

## 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	140 mm
Outside diameter	210 mm
Width, total	90 mm
Width, inner ring	90 mm
Width, outer ring	90 mm
Contact angle	17 °

### Performance

Basic dynamic load rating	692 kN
Basic static load rating	1 160 kN
Reference speed	1 900 r/min
Limiting speed	2 800 r/min
SKF performance class	SKF Explorer

### 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

# Technical Specification

SKF performance class

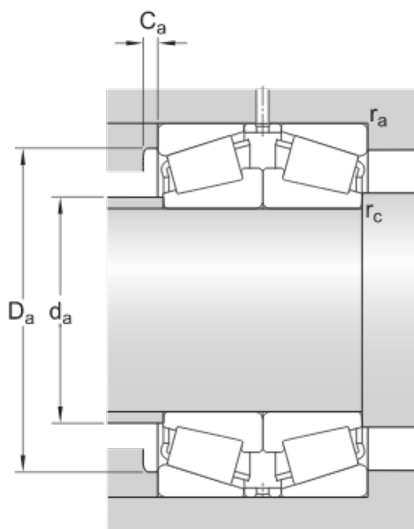
SKF Explorer



## Dimensions

d	140 mm	Bore diameter
D	210 mm	Outside diameter
T	90 mm	Total width
2B	90 mm	Width of inner rings
b	13 mm	Width of lubrication groove
K	7.5 mm	Diameter of lubrication hole
$r_{3,4}$	min. 2 mm	Chamfer dimension
$r_5$	min. 0.6 mm	Chamfer dimension

## Abutment dimensions



$d_a$	max. 153 mm	Diameter of shaft abutment
$D_a$	min. 187 mm	Diameter of housing abutment
$D_a$	max. 199 mm	Diameter of housing abutment
$C_a$	min. 8 mm	Minimum width of space required in housing on large side face
$r_a$	max. 2.5 mm	Radius of fillet
$r_c$	max. 0.6 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	692 kN
Basic static load rating	$C_0$	1 160 kN

Fatigue load limit	$P_u$	116 kN
Reference speed		1 900 r/min
Limiting speed		2 800 r/min
Limiting value	$e$	0.46
Calculation factor	$Y_1$	1.5
Calculation factor	$Y_2$	2.2
Calculation factor	$Y_0$	1.4

## Mass

Mass		10.9 kg
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