

NJ 2324 ECML Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design



Overview

Dimensions

Bore diameter	120 mm
Outside diameter	260 mm
Width	86 mm

Performance

Basic dynamic load rating	915 kN
Basic static load rating	1 040 kN
Reference speed	2 800 r/min
Limiting speed	5 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without

Lubricant

None

Relubrication feature

Without

Technical Specification

SKF performance class

SKF Explorer



Dimensions

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	86 mm	Width
d_1	≈ 168 mm	Shoulder diameter of inner ring
D_1	≈ 218.7 mm	Shoulder diameter of outer ring
F	154 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension
s	max. 7.2 mm	Permissible axial displacement

Abutment dimensions

d_a	min. 134 mm	Diameter of spacer sleeve
d_a	max. 150 mm	Diameter of spacer sleeve
d_b	min. 171 mm	Diameter of shaft abutment
D_a	max. 244.8 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	915 kN
Basic static load rating	C_0	1 040 kN

Fatigue load limit	P_u	116 kN
Reference speed		2 800 r/min
Limiting speed		5 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		22.8 kg
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Associated products

Angle ring		HJ 2324 EC
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