



RNU 1017 MA Single row cylindrical roller bearing, NU design, without inner ring

Single row cylindrical roller bearing, NU design, without inner ring

Single row cylindrical roller bearings of the NU design without an inner ring consist of an outer ring with a roller and cage assembly. They are typically used in applications where hardened and ground raceways are provided on the shaft. Without the inner ring, a larger shaft diameter can be used to provide a stronger, stiffer shaft. The bearings can accommodate axial displacement in both directions, limited only by the width of the raceway on the shaft.

- High radial load carrying capacity
- Enable a stronger, stiffer shaft
- Low friction
- Long service life
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	96.5 mm
Outside diameter	130 mm
Width	22 mm

Performance

Basic dynamic load rating	78 kN
Basic static load rating	86.5 kN
Reference speed	5 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Bearing without inner ring
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Loose flange	None
Tolerance class	Normal

Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

SKF Explorer

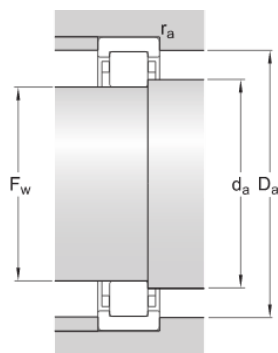


Dimensions

F_w	96.5 mm	Diameter under rollers
D	130 mm	Outside diameter
C	22 mm	Width
D_1	≈ 114 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.1 mm	Corner radius

Abutment dimensions

d_a	max. 101 mm	Abutment diameter shaft
D_a	max. 123 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	78 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		5 000 r/min

Limiting speed		7 500 r/min
Calculation factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing		0.76 kg
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