



SKF RNU 307 ECP

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.

Technical specifications

Dimensions	
Diameter under rollers	46.2 mm
Outside diameter	80 mm
Width	21 mm
Shoulder diameter outer ring	65.8 mm
Corner radius	1.5 mm
Abutment dimensions	
Abutment diameter shaft	51 mm
Abutment diameter housing	72.2 mm
Fillet radius	1.5 mm
Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Fatigue load limit	8.15 kN
Reference speed	9500 r/min
Limiting speed	11000 r/min
Calculation factor	0.15
Limiting value	0.2
Calculation factor	0.6
Performance	
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Reference speed	9500 r/min
Limiting speed	11000 r/min
SKF performance class	SKF Explorer
Properties	
Bearing part	Bearing without inner ring
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Loose flange	None
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	1.3 kg CO ₂ e
Logistics	
Product net weight	0.369 kg
eClass code	23-05-09-01

