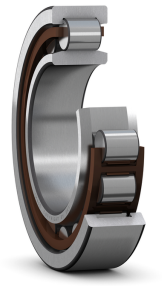

SKF NU 221 ECP

Single row cylindrical roller bearing, NU 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 no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

Technical specifications

Dimensions	
Bore diameter	105 mm
Outside diameter	190 mm
Width	36 mm
Shoulder diameter of outer ring	164.2 mm
Raceway diameter of inner ring	125 mm
Chamfer dimension	2.1 mm
Chamfer dimension	2.1 mm
Permissible axial displacement	2 mm

Abutment dimensions	
Diameter of spacer sleeve	117 mm
Diameter of spacer sleeve	122 mm
Diameter of shaft abutment	128 mm
Diameter of housing abutment	177.3 mm
Radius of fillet	2 mm
Radius of fillet	2 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	300 kN
Basic static load rating	315 kN
Fatigue load limit	36.5 kN
Reference speed	3800 r/min
Limiting speed	4300 r/min
Minimum load factor	0.15
Limiting value	0.2
Calculation factor	0.6

Associated products	
Angle ring	HJ 221 EC

Performance	
Basic dynamic load rating	300 kN
Basic static load rating	315 kN
Reference speed	3800 r/min
Limiting speed	4300 r/min
SKF performance class	SKF Explorer

Properties	
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0

Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	14.3 kg CO₂e

Logistics	
Product net weight	3.96 kg
eClass code	23-05-09-01
UNSPSC code	31171505

SKF drawings