



Image may differ from product. See technical specification for details.

NN 3026 KTN9/SP

Super-precision double row cylindrical roller bearing with tapered bore

Super-precision double row cylindrical roller bearings in the NN 30 series provide a unique balance between load carrying capacity, rigidity and speed. Having three flanges on the inner ring and no flanges on the outer ring, the bearings can accommodate axial displacement in both directions. The separable design simplifies mounting and

dismounting, particularly when load conditions require both rings to have an interference fit. The tapered bore enables accurate adjustment of clearance or preload during mounting.

- Very high radial load carrying capacity
- High rigidity and high running accuracy
- Minimize noise, vibration and heat generation
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	200 mm
Width	52 mm

Performance

Basic dynamic load rating	292 kN
Basic static load rating	500 kN
Attainable speed for grease lubrication	4 300 r/min
Attainable speed for oil-air lubrication	4 800 r/min

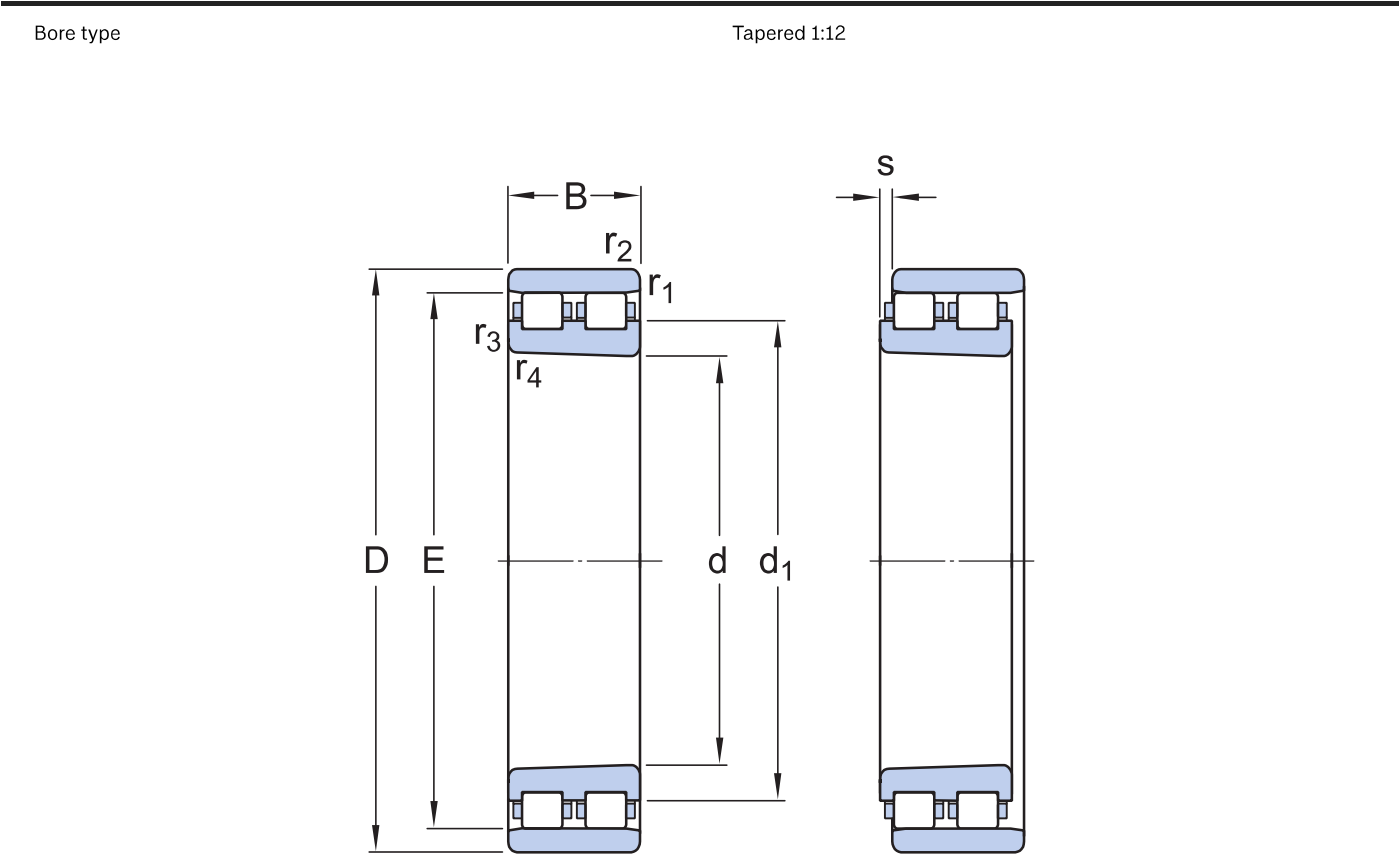
Properties

Bearing part	Complete bearing
Number of rows	2
Bore type	Tapered 1:12
Cage	Non-metallic
Design	NN
Number of flanges, outer ring	0
Number of flanges, inner ring	3
Loose flange	None
Radial internal clearance	C1
Tolerance class	Class SP (SP)
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

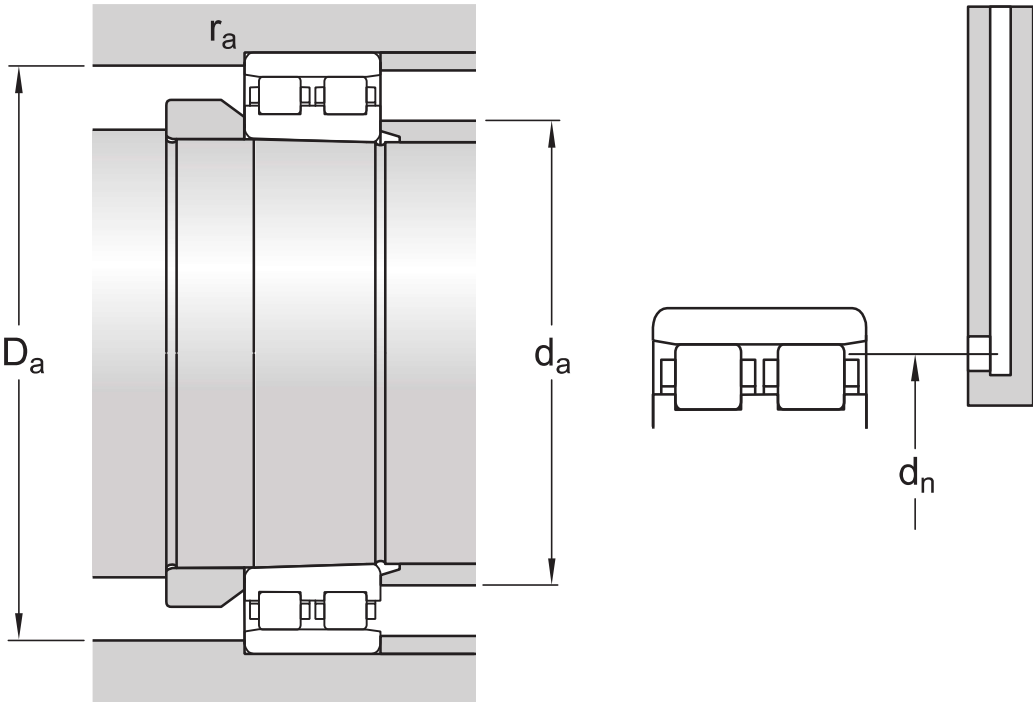
Product net weight	5.37 kg
eClass code	23-05-09-01
UNSPSC code	31171505

Technical specification



Dimensions

d	130 mm	Bore diameter
D	200 mm	Outside diameter
B	52 mm	Width
d ₁	156.4 mm	Shoulder diameter inner ring (NN design)
E	182 mm	Raceway diameter outer ring (NN design)
r _{1,2}	min. 2 mm	Chamfer dimension outer ring
r _{3,4}	min. 1.1 mm	Chamfer dimension inner ring (bearing with tapered bore)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other (all)



Abutment dimensions

d_a	min. 140 mm	Abutment diameter shaft
D_a	min. 183 mm	Abutment diameter housing
D_a	max. 190 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
d_n	179.4 mm	Oil nozzle position (not for variants with TNHA cage)

Calculation data

Basic dynamic load rating	C	292 kN
Basic static load rating	C_0	500 kN
Fatigue load limit	P_u	55 kN
Attainable speed for grease lubrication		4 300 r/min
Attainable speed for oil-air lubrication		4 800 r/min
Reference grease quantity	G_{ref}	34.1 cm ³
Static radial stiffness (guideline value)		2 900 N/μm

Tolerances and clearances

PRODUCT DETAILS

- [Tolerances: SP, UP, SP and UP for 1:12 tapered bore](#)
- [Radial internal clearance: table](#)

PRINCIPLES OF BEARING SELECTION AND APPLICATION

- [Chamfer dimensions](#)
- [Seat tolerances for standard conditions: shafts, housings](#)
- Values for ISO tolerance classes: [shafts](#), [housings](#)
- Speed dependent initial grease fill → [Initial grease fill](#)

More Information

 Product details Designs and variants General bearing specifications Preload, clearance, and stiffness Loads Attainable speeds Design considerations Mounting Designation system	 Engineering information Principles of bearing selection and application General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SimPro Spindle Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool
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