

N 1011 KTNHA/SP

Cylindrical roller bearings, single row, super-precision

Product details

[Tolerances,](#)

SP, UP, SP and UP for 1:12 tapered bore,

[Radial internal clearance,](#)

table

Principles of bearing

selection and application

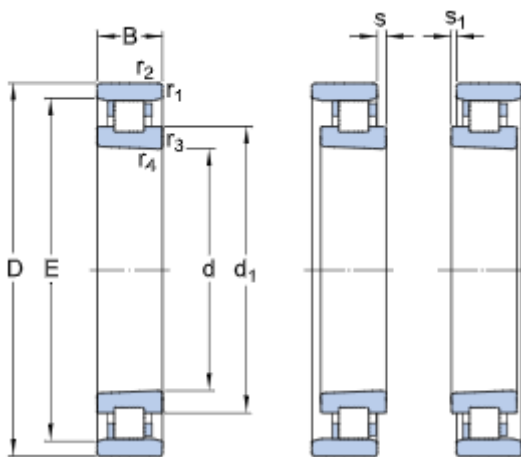
[Chamfer dimensions,](#)

[Seat tolerances for standard conditions,](#)

shafts, housings, shafts, housings,

[Initial grease fill](#)

Technical specification



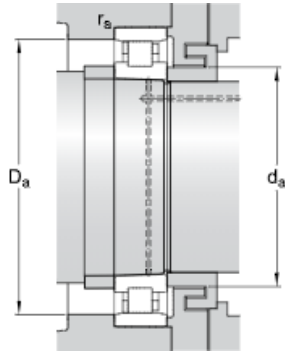
DIMENSIONS

d	55 mm
D	90 mm
B	18 mm
d ₁	68.2 mm
E	81 mm
r _{1,2}	min. 1.1 mm
r _{3,4}	min. 0.6 mm
s	max. 2.5 mm
s ₁	max. 1.5 mm

Tapered bore, taper 1:12

ABUTMENT DIMENSIONS

d _a	min. 61.5 mm
D _a	min. 82 mm
D _a	max. 83.5 mm
r _a	max. 1 mm



CALCULATION DATA

Basic dynamic load rating	C	39.1 kN
Basic static load rating	C_0	46.5 kN
Fatigue load limit	P_u	5.5 kN
Attainable speed for grease lubrication		17 000 r/min
Attainable speed for oil-air lubrication		24 000 r/min
Reference grease quantity	G_{ref}	4.9 cm
Static radial stiffness (guideline value)		590 N/ μ m

MASS

Mass bearing		0.39 kg
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More information

Product details	Engineering information	Tools
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Preload, clearance, and stiffness <hr/>	Bearing selection process <hr/>	Engineering Calculator <hr/>
Loads <hr/>	Bearing failure and how to prevent it <hr/>	LubeSelect for SKF greases <hr/>
Attainable speeds <hr/>		Heater selection tool <hr/>
Design considerations <hr/>		
Mounting <hr/>		
Designation system <hr/>		

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