



## N 1010 KTNHA/HC5SP

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

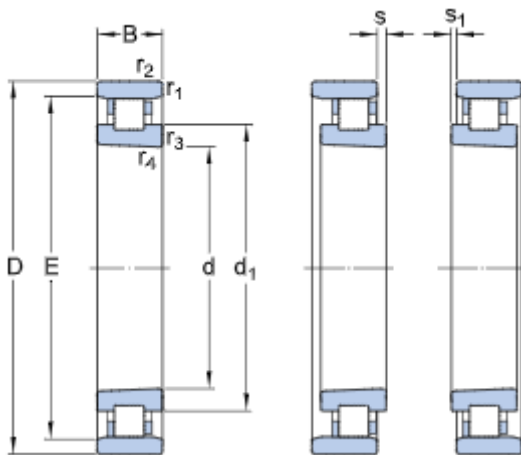
[Chamfer dimensions,](#)

[Seat tolerances for standard conditions,](#)

shafts, housings, shafts, housings,

[Initial grease fill](#)

## Technical specification



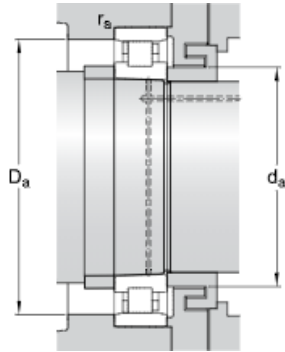
### DIMENSIONS

d	50 mm
D	80 mm
B	16 mm
d <sub>1</sub>	61.3 mm
E	72.5 mm
r <sub>1,2</sub>	min. 1 mm
r <sub>3,4</sub>	min. 0.6 mm
s	max. 2 mm
s <sub>1</sub>	max. 1.5 mm

Tapered bore, taper 1:12

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 55 mm
D <sub>a</sub>	min. 74 mm
D <sub>a</sub>	max. 75 mm
r <sub>a</sub>	max. 1 mm



## CALCULATION DATA

Basic dynamic load rating	$C$	29.7 kN
Basic static load rating	$C_0$	34.5 kN
Fatigue load limit	$P_u$	3.45 kN
Attainable speed for grease lubrication		20 000 r/min
Attainable speed for oil-air lubrication		28 000 r/min
Reference grease quantity	$G_{ref}$	3.5 cm
Static radial stiffness (guideline value)		660 N/ $\mu$ m

## MASS

Mass bearing		0.23 kg
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## More information

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

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