NN 3014 KTN/SP

Cylindrical roller bearings, double row, super-precision

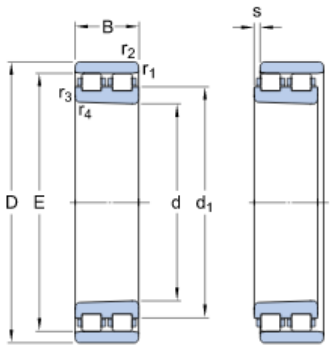
Product details

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

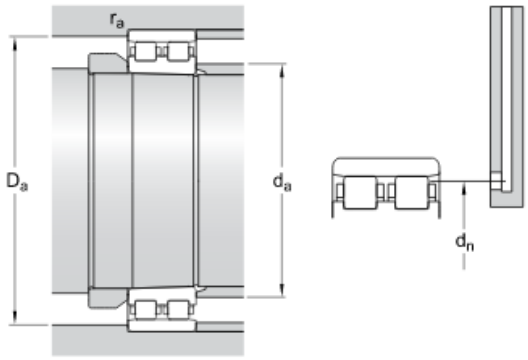


DIMENSIONS

d	70 mm
D	110 mm
B	30 mm
d_1	85.6 mm
E	100 mm
$r_{1,2}$	min. 1.1 mm
$r_{3,4}$	min. 0.6 mm
s	max. 2 mm
Tapered bore, taper 1:12	

ABUTMENT DIMENSIONS

d_a	min. 76.5 mm
D_a	min. 101 mm
D_a	max. 103.5 mm
d_n	98.5 mm



CALCULATION DATA

Basic dynamic load rating	C	96.8 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	17.3 kN
Attainable speed for grease lubrication		8000 r/min
Attainable speed for oil-air lubrication		9000 r/min
Reference grease quantity	G_{ref}	5.9 cm
Static radial stiffness (guideline value)		1610 N/µm

MASS

Mass bearing	1 kg

More information

Product details

- Designs and variants
- Bearing data
- 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
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool

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