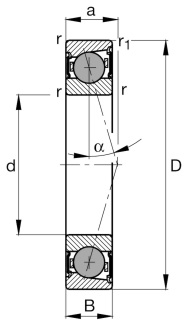
FAG

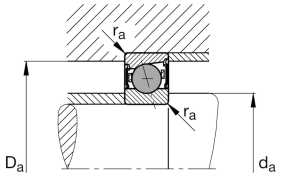
HCB7024-E-2RSD-T-P4S-UL

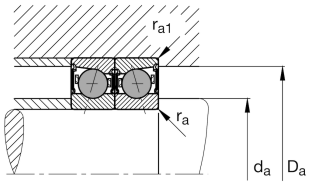
Spindle bearing

Spindle bearing HCB70..-E-2RSD, adjusted, in pairs or sets, contact angle α = 25°, with ceramic balls, lip seals on both sides, non-contact, restricted tolerances

Technical information







Your current product variant

Contact angle	E	Contact angle 25°
Sealing	2RSD	Non-contact sealed on both sides and greased “for life”
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Arrangement bearing set	U	Single bearing
Preload class	L	Preload light
Lubricant	GA21	Grease for super precision bearings, standard

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
C_r	109.000 N	Basic dynamic load rating, radial
C_{0r}	75.000 N	Basic static load rating, radial
C_{ur}	4.900 N	Fatigue load limit, radial
n_G Grease	9.500 1/min	Limiting speed for grease lubrication
≈m	1,74 kg	Weight

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

Mounting dimensions

d_a	131 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	169 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	2 mm	Maximum recess radius
$r_{a1\ max}$	1 mm	Maximum recess radius
a	49 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
$r_{1\ min}$	2 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	80 °C	Operating temperature max.

Additional information

$F_{V\ L}$	496 N	Preload force light
$F_{V\ M}$	1.810 N	Preload force medium
$F_{V\ H}$	3.849 N	Preload force heavy
$K_{aE\ L}$	1.427 N	Lift-off force light
$K_{aE\ M}$	5.313 N	Lift-off force medium
$K_{aE\ H}$	11.543 N	Lift-off force heavy
$c_{a\ L}$	257 N/µm	Axial rigidity light
$c_{a\ M}$	410 N/µm	Axial rigidity medium
$c_{a\ H}$	547 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction

Lifetime lubrication, freedom from maintenance


Grease Lubrication


Sealed on both sides