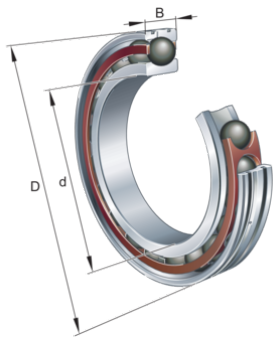


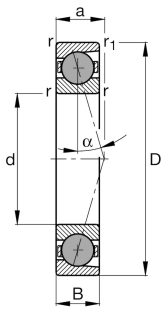
FAG

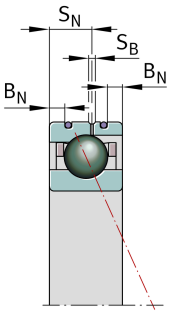
HCB71914-EDLR-T-P4S-UL

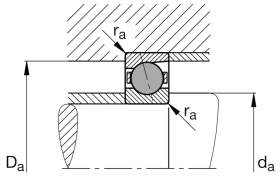
Spindle bearing

Spindle bearing HCB719..-EDLR, adjusted, in pairs or sets, contact angle α = 25°, with ceramic balls, restricted tolerances, for direct oil feed via outer ring, with inserted O rings

Technical information





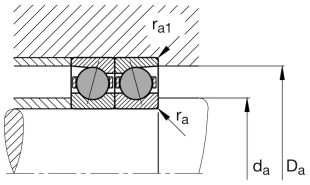


Your current product variant

Contact angle	E	Contact angle 25°
Type of Seal	Without	Not sealed
Outer shape	DLR	Direct lubrication, annular slots with O rings
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to DIN 620
Arrangement bearing set	U	Single bearing
Preload	L	Preload light

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	16 mm	Width
C_r	32.500 N	Basic dynamic load rating, radial
C_{0r}	20.800 N	Basic static load rating, radial
C_{ur}	1.680 N	Fatigue load limit, radial
n_G Grease	17.000 1/min	Limiting speed for grease lubrication
n_G Oil	26.000 1/min	Limiting speed for oil lubrication
≈m	262,2 g	Weight



Mounting dimensions

d_a	76 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	94,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,6 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
B_N	3,1 mm	Distance ring grooves
B_{N1}	3,1 mm	Distance ring grooves
S_N	9,3 mm	Distance to lubrication hole
S_B	1,4 mm	Width of lubricating groove
a	27,8 mm	Distance between the apexes of the pressure cones

Dimensions

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

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	100 °C	Operating temperature max.

Additional information

$F_{V\,L}$	98 N	Preload force light
$F_{V\,M}$	459 N	Preload force medium
$F_{V\,H}$	1.040 N	Preload force heavy
$K_{aE\,L}$	281 N	Lift-off force light
$K_{aE\,M}$	1.343 N	Lift-off force medium
$K_{aE\,H}$	3.118 N	Lift-off force heavy
$c_{a\,L}$	126 N/µm	Axial rigidity light
$c_{a\,M}$	218 N/µm	Axial rigidity medium
$c_{a\,H}$	298 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction


Oil Lubrication


Not sealed