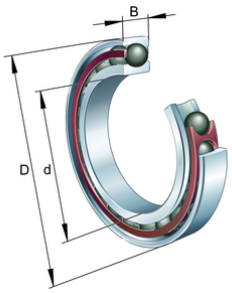


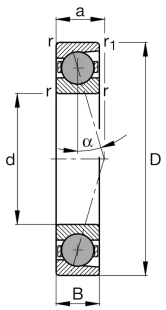
FAG

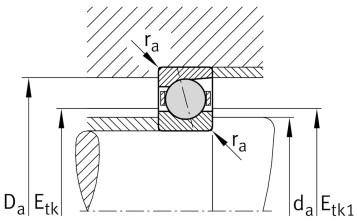
HCB7206-C-T-P4S-UL

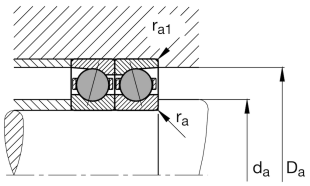
Spindle bearing

Spindle bearing HCB72..-C, adjusted, in pairs or sets, contact angle α = 15°, with ceramic balls, restricted tolerances

Technical information







Your current product variant

Contact angle	C	Contact angle 15°
Type of Seal	Without	Not sealed
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	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
C_r	23.100 N	Basic dynamic load rating, radial
C_{0r}	9.900 N	Basic static load rating, radial
C_{ur}	800 N	Fatigue load limit, radial
n_G Grease	30.000 1/min	Limiting speed for grease lubrication
n_G Oil	45.000 1/min	Limiting speed for oil lubrication
≈m	170,79 g	Weight

Mounting dimensions

d_a	37,5 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	54,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	1 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
$E_{tk\ min}$	41,2 mm	Minimum diameter injection pitch
$E_{tk\ max}$	43,7 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	41,2 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	43,7 mm	Maximum diameter injection pitch
a	14,2 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	15 °	Contact angle

Temperature range

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

Additional information

F_{VL}	62 N	Preload force light
F_{VM}	222 N	Preload force medium
F_{VH}	465 N	Preload force heavy
K_{aEL}	185 N	Lift-off force light
K_{aEM}	711 N	Lift-off force medium
K_{aEH}	1.576 N	Lift-off force heavy
c_{aL}	33 N/µm	Axial rigidity light
c_{aM}	57 N/µm	Axial rigidity medium
c_{aH}	81 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed