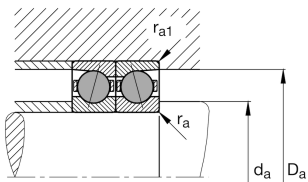
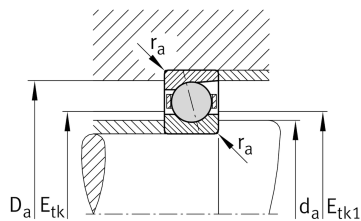
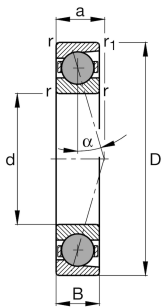
**FAG****HCB7010-C-T-P4S-UL** **Spindle bearing**

Spindle bearing HCB70...-C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, with ceramic balls, restricted tolerances

Technical information**Your current product variant**

Contact angle	C	Contact angle 15°
Sealing	Without	Not sealed
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

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
C_r	29.000 N	Basic dynamic load rating, radial
C_{0r}	15.400 N	Basic static load rating, radial
C_{ur}	1.240 N	Fatigue load limit, radial
n_G Grease	24.000 1/min	Limiting speed for grease lubrication
$n_{G\text{ Oil}}$	38.000 1/min	Limiting speed for oil lubrication
$\approx m$	214,41 g	Weight



Mounting dimensions

d_a	56 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	74 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
$E_{tk \min}$	59,3 mm	Minimum diameter injection pitch
$E_{tk \max}$	62,3 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	59,3 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	62,3 mm	Maximum diameter injection pitch
a	16,7 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}	73 N	Preload force light
F_{VM}	268 N	Preload force medium
F_{VH}	566 N	Preload force heavy
K_{aEL}	217 N	Lift-off force light
K_{aEM}	848 N	Lift-off force medium
K_{aEH}	1.894 N	Lift-off force heavy
c_{aL}	44 N/μm	Axial rigidity light
c_{aM}	75 N/μm	Axial rigidity medium
c_{aH}	107 N/μm	Axial rigidity heavy

Characteristics

- Radial load
- Axial load in one direction
- Grease Lubrication
- Oil Lubrication
- Not sealed