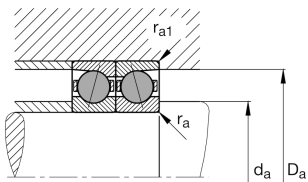
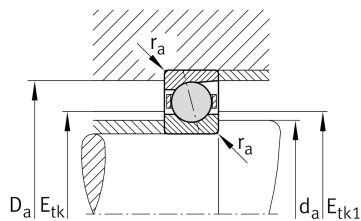
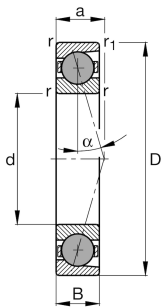
**FAG****HCB7014-E-T-P4S-UL** **Spindle bearing**

Spindle bearing HCB70...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, restricted tolerances

Technical information**Your current product variant**

Contact angle	E	Contact angle 25°
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	L	Preload light

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	20 mm	Width
C_r	48.000 N	Basic dynamic load rating, radial
C_{0r}	28.000 N	Basic static load rating, radial
C_{ur}	2.240 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	16.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	24.000 1/min	Limiting speed for oil lubrication
$\approx m$	0,486 kg	Weight



Mounting dimensions

d _a	77 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	102 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _a max	1 mm	Maximum recess radius
r _{a1} max	0,6 mm	Maximum recess radius
E _{tk} min	82,4 mm	Minimum diameter injection pitch
E _{tk} max	86,7 mm	Maximum diameter injection pitch
E _{tk1} min	82,4 mm	Minimum diameter injection pitch
E _{tk1} max	86,7 mm	Maximum diameter injection pitch
a	31 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1,1 mm	Minimum chamfer dimension
r ₁ min	1,1 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_{VL}	188 N	Preload force light
F_{VM}	749 N	Preload force medium
F_{VH}	1.633 N	Preload force heavy
K_{aEL}	540 N	Lift-off force light
K_{aEM}	2.203 N	Lift-off force medium
K_{aEH}	4.915 N	Lift-off force heavy
c_{aL}	147 N/ μ m	Axial rigidity light
c_{aM}	242 N/ μ m	Axial rigidity medium
c_{aH}	326 N/ μ m	Axial rigidity heavy

Characteristics

- 

Radial load
- 

Axial load in one direction
- 

Grease Lubrication
- 

Oil Lubrication
- 

Not sealed