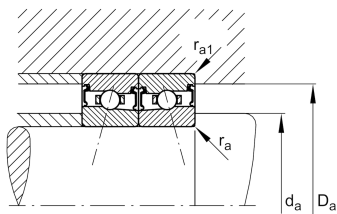
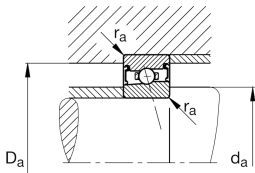
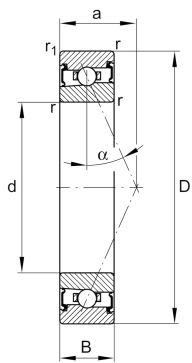


**FAG****HSS7011-E-T-P4S-UL**

High speed spindle bearing

High speed spindle bearing HSS70...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, 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	L	Preload light
Lubricant	GA21	Grease for super precision bearings, standard

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
C_r	16.900 N	Basic dynamic load rating, radial
C_{0r}	10.900 N	Basic static load rating, radial
C_{ur}	1.150 N	Fatigue load limit, radial
n_G Grease	20.000 1/min	Limiting speed for grease lubrication
n_G	30.000 1/min	Limiting speed
$\approx m$	405 g	Weight



Mounting dimensions

d_a	62 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	83 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
a	25,9 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.
$T_{\max}$	80 °C	Operating temperature max.

Additional information

F_{VL}	101 N	Preload force light
F_{VM}	304 N	Preload force medium
F_{VH}	607 N	Preload force heavy
K_{aEL}	292 N	Lift-off force light
K_{aEM}	895 N	Lift-off force medium
K_{aEH}	1.826 N	Lift-off force heavy
c_{aL}	106 N/μm	Axial rigidity light
c_{aM}	157 N/μm	Axial rigidity medium
c_{aH}	206 N/μm	Axial rigidity heavy



Characteristics

-  Radial load
-  Axial load in one direction
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides