

FAG

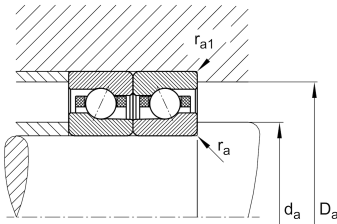
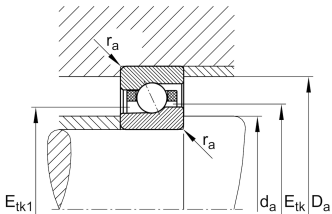
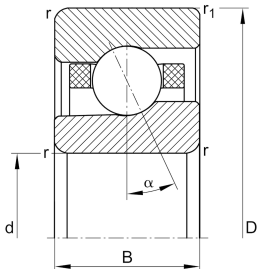
HCM7014-E-T-P4S-UL-XL

High speed spindle bearing

High speed spindle bearing HCM70..-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, restricted tolerances

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Preload class	L	Preload light
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

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	20 mm	Width
C _r	26.500 N	Basic dynamic load rating, radial
C _{0r}	15.100 N	Basic static load rating, radial
C _{ur}	1.210 N	Fatigue load limit, radial
n _{G Grease}	22.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	32.000 1/min	Limiting speed for oil lubrication
≈m	0,559 kg	Masa



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	84,3 mm	Minimum diameter injection pitch
E _{tk} max	87,2 mm	Maximum diameter injection pitch
E _{tk1} min	80,7 mm	Minimum diameter injection pitch
E _{tk1} max	87,2 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	0,6 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}	176 N	Preload force light
F_{VM}	460 N	Preload force medium
F_{VH}	956 N	Preload force heavy
K_{aEL}	503 N	Lift-off force light
K_{aEM}	1.331 N	Lift-off force medium
K_{aEH}	2.804 N	Lift-off force heavy
c_{aL}	138 N/ μ m	Axial rigidity light
c_{aM}	193 N/ μ m	Axial rigidity medium
c_{aH}	252 N/ μ m	Axial rigidity heavy

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia