

FAG

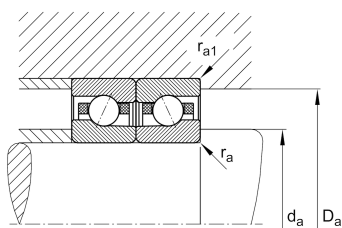
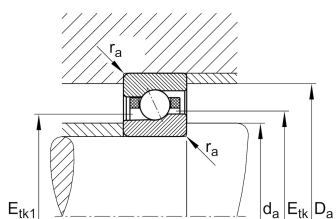
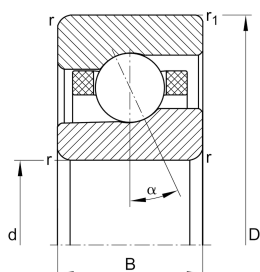
HCM7014-E-T-P4S-UL-XL

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°
Type of Seal	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
$\approx m$	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 _{V L}	176 N	Preload force light
F _{V M}	460 N	Preload force medium
F _{V H}	956 N	Preload force heavy
K _{aE L}	503 N	Lift-off force light
K _{aE M}	1.331 N	Lift-off force medium
K _{aE H}	2.804 N	Lift-off force heavy
c _{a L}	138 N/μm	Axial rigidity light
c _{a M}	193 N/μm	Axial rigidity medium
c _{a H}	252 N/μm	Axial rigidity heavy

Właściwości

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Obciążenie promieniowe
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Obciążenie osiowe jednokierunkowe
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Smarowanie smarem
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Smarowanie olejem
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Bez uszczelnienia