

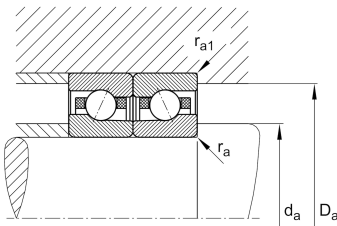
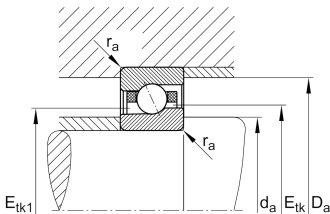
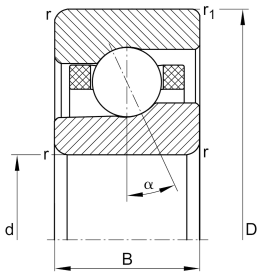
FAG

HCM7020-C-T-P4S-UL-XL

High speed spindle bearing

High speed spindle bearing HCM70..-C, adjusted, in pairs or sets, contact angle $\alpha = 17^\circ$, with ceramic balls, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Preload	L	Preload light
Contact angle	Contact angle 17°	Contact angle 17°
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	100 mm	Bore diameter
D	150 mm	Outside diameter
B	24 mm	Width
C _r	43.000 N	Basic dynamic load rating, radial
C _{0r}	31.000 N	Basic static load rating, radial
C _{ur}	2.220 N	Fatigue load limit, radial
n _{G Grease}	16.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	24.000 1/min	Limiting speed for oil lubrication
≈m	1,204 kg	Masa



Mounting dimensions

d _a	110 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	141 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _{a max}	1,5 mm	Maximum recess radius
r _{a1 max}	0,6 mm	Maximum recess radius
E _{tk min}	118,3 mm	Minimum diameter injection pitch
E _{tk max}	121,7 mm	Maximum diameter injection pitch
E _{tk1 min}	114,1 mm	Minimum diameter injection pitch
E _{tk1 max}	121,7 mm	Maximum diameter injection pitch
a	31,1 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
r _{1 min}	1 mm	Minimum chamfer dimension
α	17 °	Contact angle

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.



Additional information

F_{VL}	240 N	Preload force light
F_{VM}	635 N	Preload force medium
F_{VH}	1.336 N	Preload force heavy
K_{aEL}	703 N	Lift-off force light
K_{aEM}	1.915 N	Lift-off force medium
K_{aEH}	4.174 N	Lift-off force heavy
c_{aL}	106 N/ μ m	Axial rigidity light
c_{aM}	154 N/ μ m	Axial rigidity medium
c_{aH}	210 N/ μ m	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