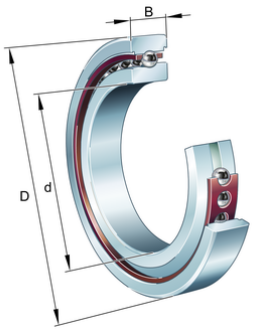


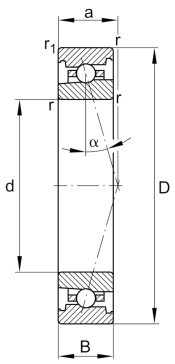
FAG

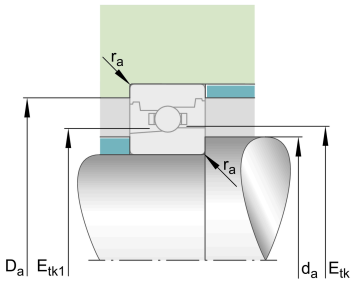
HS7001-C-T-P4S-UL

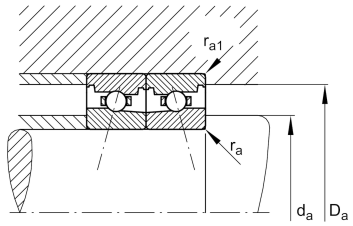
High speed spindle bearing

High speed spindle bearing HS70..-C, adjusted, in pairs or sets, contact angle α = 15°, restricted tolerances

Informacje techniczne







Twoja aktualna wersja produktu

Contact angle	C	Contact angle 15°
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	12 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
C_r	2.450 N	Basic dynamic load rating, radial
C_{0r}	960 N	Basic static load rating, radial
C_{ur}	102 N	Fatigue load limit, radial
n_G Grease	80.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	130.000 1/min	Limiting speed for oil lubrication
n_G	130.000 1/min	Limiting speed
≈m	23 g	Masa

Mounting dimensions

d_a	16,5 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	24,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,3 mm	Maximum recess radius
$r_{a1\ max}$	0,1 mm	Maximum recess radius
$E_{tk\ min}$	18,4 mm	Minimum diameter injection pitch
$E_{tk\ max}$	18,9 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	17,3 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	18,9 mm	Maximum diameter injection pitch
a	6,7 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	0,3 mm	Minimum chamfer dimension
$r_{1\ min}$	0,3 mm	Minimum chamfer dimension
α	15 °	Contact angle

Temperature range

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

Additional information

F_{VL}	9 N	Preload force light
F_{VM}	27 N	Preload force medium
F_{VH}	54 N	Preload force heavy
K_{aEL}	27 N	Lift-off force light
K_{aEM}	87 N	Lift-off force medium
K_{aEH}	181 N	Lift-off force heavy
c_{aL}	11 N/µm	Axial rigidity light
c_{aM}	17 N/µm	Axial rigidity medium
c_{aH}	24 N/µm	Axial rigidity heavy

Właściwości

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