View product details on medias

13.05.2026, 09:00:31 UTC

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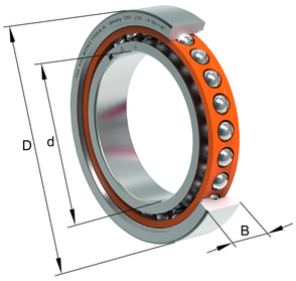


FAG

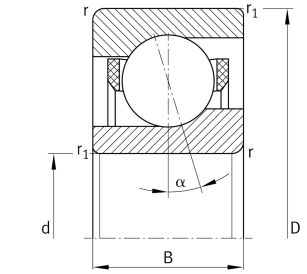
X-life

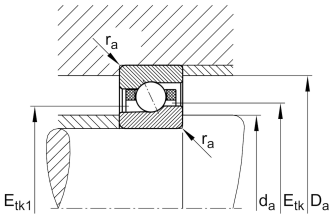
HCM71912-C-T-P4S-UL-XL

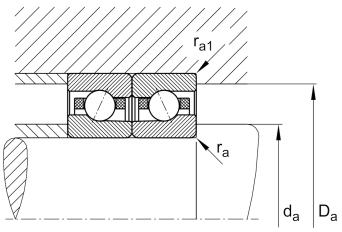
High speed spindle bearing

High speed spindle bearing HCM719..-C, adjusted, in pairs or sets, contact angle α = 17°, with ceramic balls, restricted tolerances

Technical information







Your current product variant

Contact angle	Contact angle 17°	Contact angle 17°
Type of Sealing	Without	Not sealed
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to DIN 620
Arrangement bearing set	U	Single bearing
Preload	L	Preload light

Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	13 mm	Width
C_r	19.500 N	Basic dynamic load rating, radial
C_{0r}	10.500 N	Basic static load rating, radial
C_{ur}	850 N	Fatigue load limit, radial
n_G Grease	28.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	40.000 1/min	Limiting speed for oil lubrication
≈m	146,01 g	Weight

Mounting dimensions

d_a	65 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	80,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,6 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
$E_{tk\ min}$	67,7 mm	Minimum diameter injection pitch
$E_{tk\ max}$	70 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	64,7 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	70 mm	Maximum diameter injection pitch
a	17,6 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	1 mm	Minimum chamfer dimension
$r_{1\ min}$	0,6 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}	81 N	Preload force light
F_{VM}	214 N	Preload force medium
F_{VH}	450 N	Preload force heavy
K_{aEL}	236 N	Lift-off force light
K_{aEM}	638 N	Lift-off force medium
K_{aEH}	1.378 N	Lift-off force heavy
c_{aL}	54 N/µm	Axial rigidity light
c_{aM}	78 N/µm	Axial rigidity medium
c_{aH}	105 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed