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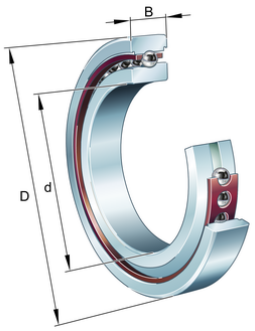


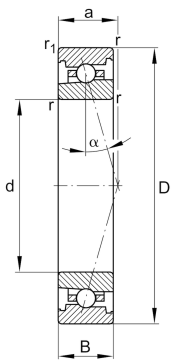
FAG

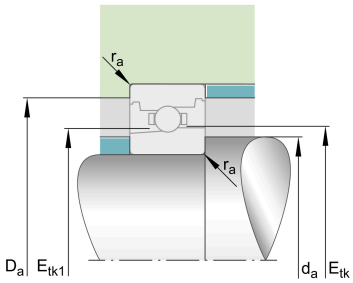
HS7008-C-T-P4S-UL

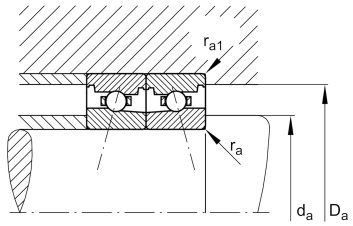
High speed spindle bearing

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

Technical information







Your current product variant

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 class	L	Preload light

Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	15 mm	Width
C_r	9.400 N	Basic dynamic load rating, radial
C_{0r}	5.700 N	Basic static load rating, radial
C_{ur}	610 N	Fatigue load limit, radial
n_G Grease	30.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	45.000 1/min	Limiting speed for oil lubrication
n_G	45.000 1/min	Limiting speed
≈m	0,204 kg	Weight

Mounting dimensions

d_a	46 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	62 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	1 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
$E_{tk\ min}$	51,2 mm	Minimum diameter injection pitch
$E_{tk\ max}$	52,3 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	49,4 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	52,3 mm	Maximum diameter injection pitch
a	14,7 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	1 mm	Minimum chamfer dimension
$r_{1\ min}$	1 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

$F_{V\,L}$	34 N	Preload force light
$F_{V\,M}$	101 N	Preload force medium
$F_{V\,H}$	201 N	Preload force heavy
$K_{aE\,L}$	100 N	Lift-off force light
$K_{aE\,M}$	316 N	Lift-off force medium
$K_{aE\,H}$	659 N	Lift-off force heavy
$c_{a\,L}$	30 N/µm	Axial rigidity light
$c_{a\,M}$	47 N/µm	Axial rigidity medium
$c_{a\,H}$	65 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed