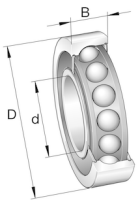
View product details on medias

30.07.2026, 03:01:45 UTC

SCHAEFFLER



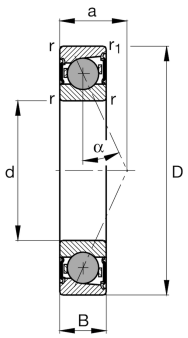
FAG

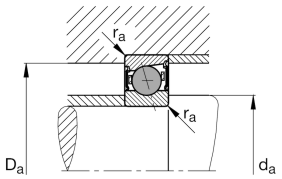
HCS7014-E-T-P4S-UL

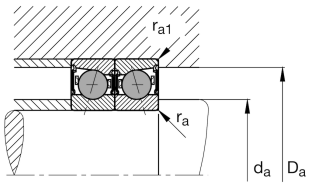
High speed spindle bearing

High speed spindle bearing HCS70..-E, adjusted, in pairs or sets, contact angle α = 25°, with ceramic balls, lip seals on both sides, non-contact, restricted tolerances

Technical information







Your current product variant

Preload	L	Preload light
Contact angle	E	Contact angle 25°
Type of Seal	2RSD	Non-contact sealed on both sides and greased “for life”
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	23.700 N	Basic dynamic load rating, radial
C_{0r}	15.600 N	Basic static load rating, radial
C_{ur}	1.260 N	Fatigue load limit, radial
n_G Grease	20.000 1/min	Limiting speed for grease lubrication
≈m	0,608 kg	Weight

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
a	31 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	1,1 mm	Minimum chamfer dimension
$r_{1\ min}$	1,1 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	80 °C	Operating temperature max.

Additional information

$F_{V\ L}$	98 N	Preload force light
$F_{V\ M}$	293 N	Preload force medium
$F_{V\ H}$	587 N	Preload force heavy
$K_{aE\ L}$	280 N	Lift-off force light
$K_{aE\ M}$	853 N	Lift-off force medium
$K_{aE\ H}$	1.731 N	Lift-off force heavy
$c_{a\ L}$	130 N/µm	Axial rigidity light
$c_{a\ M}$	192 N/µm	Axial rigidity medium
$c_{a\ H}$	248 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction

Lifetime lubrication, freedom from maintenance


Grease Lubrication


Sealed on both sides