

**FAG****HSS7019-E-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HSS70...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , lip seals on both sides, non-contact, restricted tolerances

## Technical information



## Your current product variant

Contact angle	E	Contact angle 25°
Type of Sealing	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 DIN 620
Arrangement bearing set	U	Single bearing
Preload	L	Preload light
Lubricant	GA21	Grease for super precision bearings, standard

## Main Dimensions &amp; Performance Data

d	95 mm	Bore diameter
D	145 mm	Outside diameter
B	24 mm	Width
C <sub>r</sub>	34.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	26.000 N	Basic static load rating, radial
C <sub>ur</sub>	2.500 N	Fatigue load limit, radial
n <sub>G</sub> Grease	12.000 1/min	Limiting speed for grease lubrication
n <sub>G</sub>	18.000 1/min	Limiting speed
≈m	1,292 kg	Weight



### Mounting dimensions

$d_a$	105 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	136 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
$a$	40 mm	Distance between the apexes of the pressure cones

### Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
$r_{1 \min}$	1,5 mm	Minimum chamfer dimension
$\alpha$	25 °	Contact angle

### Temperature range

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

### Additional information

$F_{VL}$	204 N	Preload force light
$F_{VM}$	612 N	Preload force medium
$F_{VH}$	1.225 N	Preload force heavy
$K_{aEL}$	588 N	Lift-off force light
$K_{aEM}$	1.797 N	Lift-off force medium
$K_{aEH}$	3.663 N	Lift-off force heavy
$c_{aL}$	168 N/μm	Axial rigidity light
$c_{aM}$	249 N/μm	Axial rigidity medium
$c_{aH}$	324 N/μm	Axial rigidity heavy



### Characteristics

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Radial load



Axial load in one direction



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides