

**FAG****HSS71903-E-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HSS719..-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°
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 ISO 492:2023
Arrangement bearing set	U	Single bearing
Preload	L	Preload light
Lubricant	GA21	Grease for super precision bearings, standard

## Main Dimensions &amp; Performance Data

d	17 mm	Bore diameter
D	30 mm	Outside diameter
B	7 mm	Width
C <sub>r</sub>	2.480 N	Basic dynamic load rating, radial
C <sub>0r</sub>	1.070 N	Basic static load rating, radial
C <sub>ur</sub>	114 N	Fatigue load limit, radial
n <sub>G</sub> Grease	63.000 1/min	Limiting speed for grease lubrication
n <sub>G</sub>	95.000 1/min	Limiting speed
≈m	22 g	Weight



### Mounting dimensions

$d_a$	20 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	27,5 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
$a$	9 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
$\alpha$	25 °	Contact angle

### Temperature range

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

### Additional information

$F_{VL}$	16 N	Preload force light
$F_{VM}$	47 N	Preload force medium
$F_{VH}$	93 N	Preload force heavy
$K_{aEL}$	45 N	Lift-off force light
$K_{aEM}$	138 N	Lift-off force medium
$K_{aEH}$	283 N	Lift-off force heavy
$c_{aL}$	30 N/μm	Axial rigidity light
$c_{aM}$	44 N/μm	Axial rigidity medium
$c_{aH}$	58 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