

**FAG****HS71913-C-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HS719...-C, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , restricted tolerances

## Technical information



## Your current product variant

Contact angle	C	Contact angle $15^\circ$
Type of Seal	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 &amp; Performance Data

d	65 mm	Bore diameter
D	90 mm	Outside diameter
B	13 mm	Width
$C_r$	13.800 N	Basic dynamic load rating, radial
$C_{0r}$	9.900 N	Basic static load rating, radial
$C_{ur}$	1.040 N	Fatigue load limit, radial
$n_G$ Grease	20.000 1/min	Limiting speed for grease lubrication
$n_G$ Oil	32.000 1/min	Limiting speed for oil lubrication
$n_G$	32.000 1/min	Limiting speed
$\approx m$	0,203 kg	Weight





### Mounting dimensions

$d_a$	70 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	85,5 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
$E_{tk \min}$	74,2 mm	Minimum diameter injection pitch
$E_{tk \max}$	75,3 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	72,1 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	75,3 mm	Maximum diameter injection pitch
$a$	16,9 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
$\alpha$	15 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.



### Additional information

$F_{VL}$	48 N	Preload force light
$F_{VM}$	144 N	Preload force medium
$F_{VH}$	287 N	Preload force heavy
$K_{aEL}$	143 N	Lift-off force light
$K_{aEM}$	450 N	Lift-off force medium
$K_{aEH}$	937 N	Lift-off force heavy
$c_{aL}$	42 N/ $\mu$ m	Axial rigidity light
$c_{aM}$	65 N/ $\mu$ m	Axial rigidity medium
$c_{aH}$	89 N/ $\mu$ m	Axial rigidity heavy

### Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed