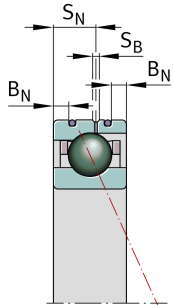


**FAG****HC7011-EDLR-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HC70..-EDLR, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , with ceramic balls, restricted tolerances, for direct oil feed via outer ring, with inserted O rings

## Technical information

**Your current product variant**

Contact angle	E	Contact angle 25°
Sealing	Without	Not sealed
Outer shape	DLR	Direct lubrication, annular slots with O rings
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

**Main Dimensions & Performance Data**

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
$C_r$	17.000 N	Basic dynamic load rating, radial
$C_{0r}$	10.400 N	Basic static load rating, radial
$C_{ur}$	840 N	Fatigue load limit, radial
$n_G$ Grease	26.000 1/min	Limiting speed for grease lubrication
$n_G$ Oil	40.000 1/min	Limiting speed for oil lubrication
$\approx m$	0,364 kg	Weight



### Mounting dimensions

$d_a$	62 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	83 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
$B_N$	4,3 mm	Distance ring grooves
$B_{N1}$	4,3 mm	Distance ring grooves
$S_N$	9,7 mm	Distance to lubrication hole
$S_B$	1,4 mm	Width of lubricating groove
$a$	25,9 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
$\alpha$	25 °	Contact angle

### Temperature range





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



### Additional information

$F_{VL}$	70 N	Preload force light
$F_{VM}$	210 N	Preload force medium
$F_{VH}$	421 N	Preload force heavy
$K_{aEL}$	201 N	Lift-off force light
$K_{aEM}$	613 N	Lift-off force medium
$K_{aEH}$	1.244 N	Lift-off force heavy
$c_{aL}$	105 N/ $\mu$ m	Axial rigidity light
$c_{aM}$	155 N/ $\mu$ m	Axial rigidity medium
$c_{aH}$	201 N/ $\mu$ m	Axial rigidity heavy

### Characteristics

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