

**FAG****B7020-E-T-P4S-UL**

Spindle bearing

Spindle bearing B70..-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, restricted tolerances

Technical information



Your current product variant

Preload	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Sealing	Without	Not sealed
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	150 mm	Outside diameter
B	24 mm	Width
C_r	79.000 N	Basic dynamic load rating, radial
C_{0r}	55.000 N	Basic static load rating, radial
C_{ur}	5.200 N	Fatigue load limit, radial
n_G Grease	8.000 1/min	Limiting speed for grease lubrication
$n_{G\text{ Oil}}$	13.000 1/min	Limiting speed for oil lubrication
$\approx m$	1,24 kg	Weight





Mounting dimensions

d_a	110 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	141 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
$E_{tk \min}$	115,5 mm	Minimum diameter injection pitch
$E_{tk \max}$	120,8 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	115,5 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	120,8 mm	Maximum diameter injection pitch
a	41,1 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
α	25 °	Contact angle

Temperature range

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



Additional information

F_{VL}	681 N	Preload force light
F_{VM}	2.336 N	Preload force medium
F_{VH}	4.869 N	Preload force heavy
K_{aEL}	1.982 N	Lift-off force light
K_{aEM}	7.018 N	Lift-off force medium
K_{aEH}	15.103 N	Lift-off force heavy
c_{aL}	242 N/ μ m	Axial rigidity light
c_{aM}	385 N/ μ m	Axial rigidity medium
c_{aH}	521 N/ μ m	Axial rigidity heavy

Characteristics

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