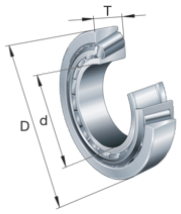


FAG

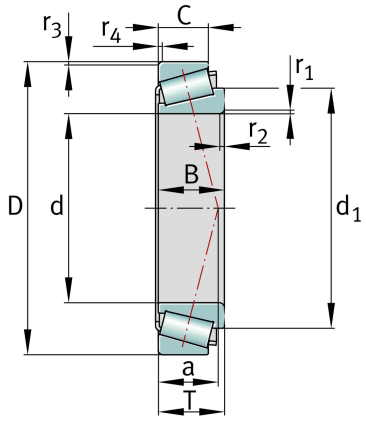
32010-X-H

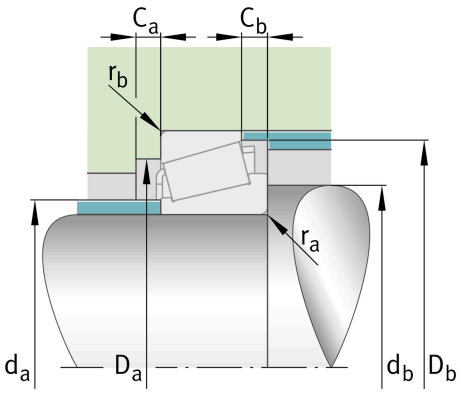
Tapered roller bearing

Schaeffler ID:
0954945020000

Tapered roller bearings 320, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information





Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	20 mm	Width, inner ring
C	15,5 mm	Width, outer ring
T	20 mm	Width, total
C_r	60.800 N	Basic dynamic load rating, radial
C_{0r}	93.000 N	Basic static load rating, radial
C_{ur}	11.400 N	Fatigue load limit, radial
n_G	6.960 1/min	Limiting speed
$n_{\vartheta r}$	5.000 1/min	Thermal speed rating
	0,386 kg	Weight

Mounting dimensions

$d_{a\ max}$	56 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	56 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	72 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	74 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	77 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	4 mm	Minimum axial space
$C_{b\ min}$	4,5 mm	Minimum axial space
$r_{a\ max}$	1 mm	Maximum fillet radius of shaft
$r_{b\ max}$	1 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2\ min}$	1 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4\ min}$	1 mm	Minimum chamfer dimension of outer ring back face
a	18 mm	Distance between the apexes of the pressure cones
d_1	69,2 mm	Guidance rib diameter of inner ring

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Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Calculation factors

e	0,42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,42	Dynamic axial load factor
Y_0	0,78	Static axial load factor

Additional information

	T3CC050	Comparative designation to ISO 10317 and ISO 355