

FAG

32010-X-XL

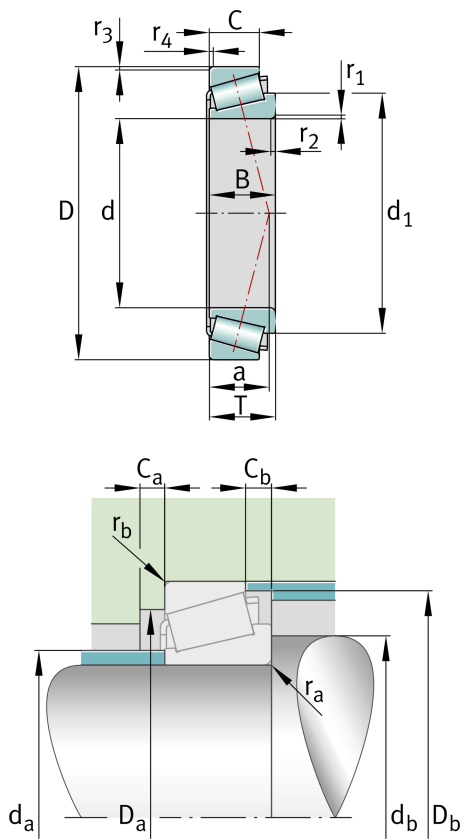
Tapered roller bearing

Schaeffler ID:
0849114410000

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

X-life

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	75,000 N	Basic dynamic load rating, radial
C _{0r}	94,000 N	Basic static load rating, radial
C _{ur}	14,900 N	Fatigue load limit, radial
n _G	9,600 1/min	Limiting speed
n _{gr}	4,950 1/min	Thermal speed rating
	0.381 kg	Weight

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	67.3 mm	Guidance rib diameter of inner ring

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

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

Temperature range

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

Additional information

T3CC050	Comparative designation to ISO 10317 and ISO 355
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