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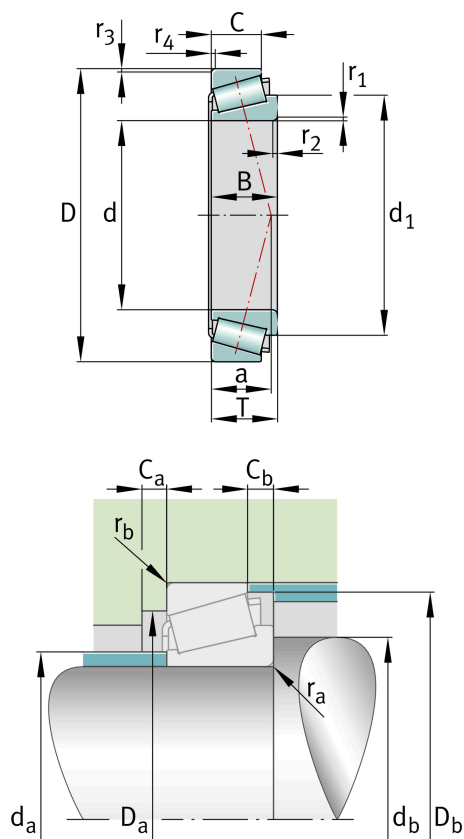
30326

Tapered roller bearing

Schaeffler ID:
0190529520000

Tapered roller bearings 303, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	130 mm	Bore diameter
D	280 mm	Outside diameter
B	58 mm	Width, inner ring
C	49 mm	Width, outer ring
T	63.75 mm	Width, total
C _r	600,000 N	Basic dynamic load rating, radial
C _{0r}	740,000 N	Basic static load rating, radial
C _{ur}	88,000 N	Fatigue load limit, radial
n _G	2,600 1/min	Limiting speed
n _{gr}	2,030 1/min	Thermal speed rating
≈m	16.9 kg	Weight

Mounting dimensions

d _{a max}	164 mm	Maximum diameter of shaft shoulder
d _{b min}	148 mm	Minimum diameter of shaft shoulder
D _{a min}	239 mm	Minimum diameter of housing shoulder
D _{a max}	262 mm	Maximum diameter of housing shoulder
D _{b min}	255 mm	Minimum diameter of housing shoulder
C _{a min}	8 mm	Minimum axial space
C _{b min}	14.5 mm	Minimum axial space
r _{a max}	5 mm	Maximum fillet radius of shaft
r _{b max}	4 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2 min}	5 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4 min}	4 mm	Minimum chamfer dimension of outer ring back face
a	53 mm	Distance between the apexes of the pressure cones
d ₁	194 mm	Guidance rib diameter of inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.

Calculation factors

e	0.35	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.73	Dynamic axial load factor
Y ₀	0.95	Static axial load factor

Additional information

T2GB130	Comparative designation to ISO 10317 and ISO 355
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