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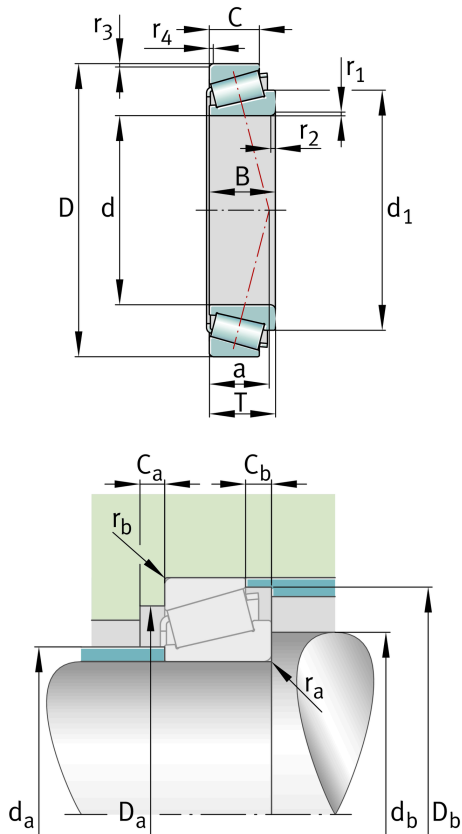
33017

Tapered roller bearing

Schaeffler ID:
0167133700000

Tapered roller bearings 330, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	85 mm	Bore diameter
D	130 mm	Outside diameter
B	36 mm	Width, inner ring
C	29.5 mm	Width, outer ring
T	36 mm	Width, total
C_r	184,000 N	Basic dynamic load rating, radial
C_{0r}	315,000 N	Basic static load rating, radial
C_{ur}	40,500 N	Fatigue load limit, radial
n_G	5,100 1/min	Limiting speed
n_{gr}	3,300 1/min	Thermal speed rating
	1.729 kg	Weight

Dimensions

$r_{1,2 \min}$	1.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	1.5 mm	Minimum chamfer dimension of outer ring back face
a	27 mm	Distance between the apexes of the pressure cones
d_1	108.5 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	94 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	92 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	118 mm	Minimum diameter of housing shoulder
$D_{a \max}$	122 mm	Maximum diameter of housing shoulder
$D_{b \min}$	125 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	6.5 mm	Minimum axial space
$r_{a \max}$	1.5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1.5 mm	Maximum fillet radius of housing

Calculation factors

	T2CE085	Comparative designation to ISO 10317 and ISO 355
e	0.29	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	2.06	Dynamic axial load factor
Y ₀	1.13	Static axial load factor

Temperature range

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