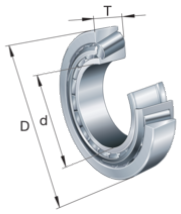


FAG

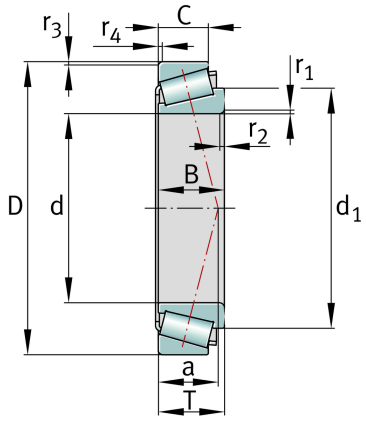
33013

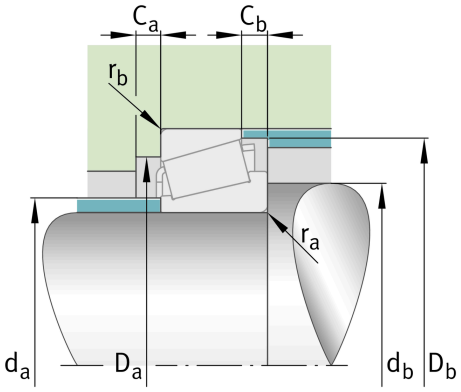
Tapered roller bearing

Schaeffler ID:
0167133380000

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

Technical information





Main Dimensions & Performance Data

d	65 mm	Bore diameter
D	100 mm	Outside diameter
B	27 mm	Width, inner ring
C	21 mm	Width, outer ring
T	27 mm	Width, total
C_r	100,000 N	Basic dynamic load rating, radial
C_{0r}	161,000 N	Basic static load rating, radial
C_{ur}	20,800 N	Fatigue load limit, radial
n_G	6,900 1/min	Limiting speed
$n_{\vartheta r}$	4,300 1/min	Thermal speed rating
	0.759 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	21 mm	Distance between the apexes of the pressure cones
d_1	84.6 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a\ max}$	72 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	72 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	89 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	93 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	96 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	5 mm	Minimum axial space
$C_{b\ min}$	6 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

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Calculation factors

	T2CE065	Comparative designation to ISO 10317 and ISO 355
e	0.35	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.72	Dynamic axial load factor
Y_0	0.95	Static axial load factor

Temperature range

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