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FAG

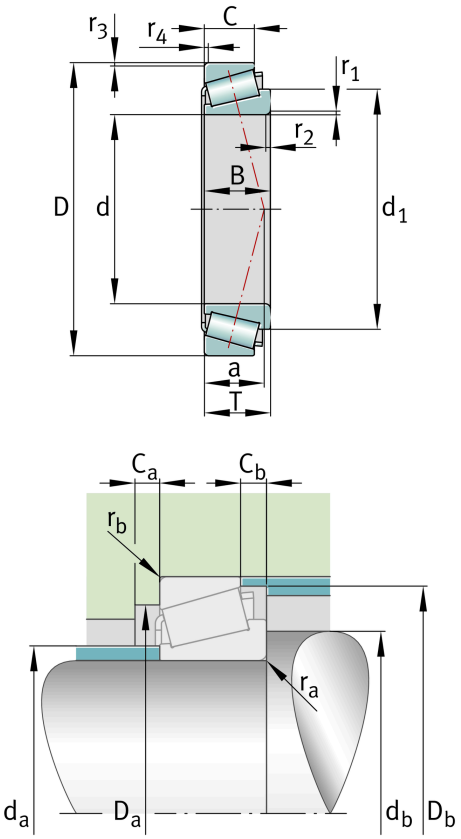
32264

Tapered roller bearing

Schaeffler ID:
0190565080000

Tapered roller bearings 322, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	320 mm	Bore diameter
D	580 mm	Outside diameter
B	150 mm	Width, inner ring
C	125 mm	Width, outer ring
T	159 mm	Width, total
C_r	3,000,000 N	Basic dynamic load rating, radial
C_{0r}	5,200,000 N	Basic static load rating, radial
C_{ur}	500,000 N	Fatigue load limit, radial
n_G	1,100 1/min	Limiting speed
$n_{\vartheta r}$	530 1/min	Thermal speed rating
≈m	170 kg	Weight

Mounting dimensions

$d_{a\ max}$	372 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	340 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	486 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	556 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	555 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	16 mm	Minimum axial space
$C_{b\ min}$	34 mm	Minimum axial space
$r_{a\ max}$	6 mm	Maximum fillet radius of shaft
$r_{b\ max}$	5 mm	Maximum fillet radius of housing

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Dimensions

$r_{1, 2\ min}$	6 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4\ min}$	5 mm	Minimum chamfer dimension of outer ring back face
a	136 mm	Distance between the apexes of the pressure cones
d_1	439 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	0.43	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.38	Dynamic axial load factor
Y_0	0.76	Static axial load factor