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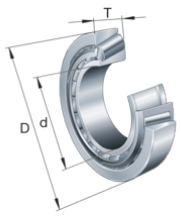


FAG

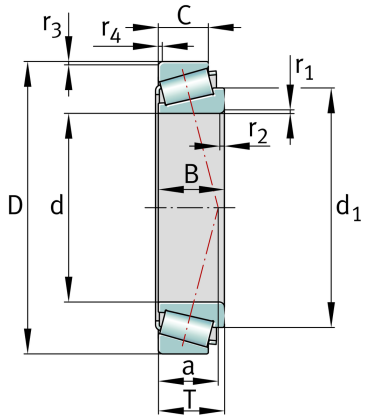
30214-A

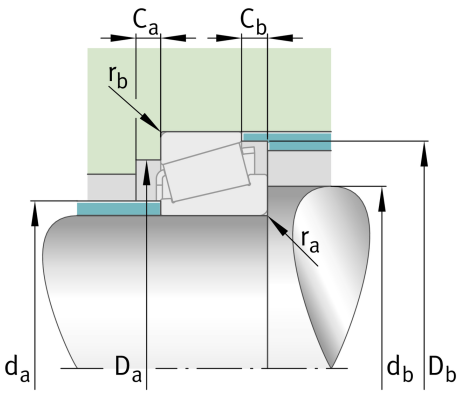
Tapered roller bearing

Schaeffler ID:
0167106220000

Tapered roller bearings 302, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information





Temperature range

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

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	125 mm	Outside diameter
B	24 mm	Width, inner ring
C	21 mm	Width, outer ring
T	26.25 mm	Width, total
C_r	130,000 N	Basic dynamic load rating, radial
C_{0r}	160,000 N	Basic static load rating, radial
C_{ur}	19,400 N	Fatigue load limit, radial
n_G	5,800 1/min	Limiting speed
$n_{\vartheta r}$	3,750 1/min	Thermal speed rating

Dimensions

$r_{1, 2\ min}$	2 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	25 mm	Distance between the apexes of the pressure cones
d_1	95.4 mm	Guidance rib diameter of inner ring

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Mounting dimensions

$d_{a\ max}$	81 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	79 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	110 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	116 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	118 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	4 mm	Minimum axial space
$C_{b\ min}$	5 mm	Minimum axial space
$r_{a\ max}$	2 mm	Maximum fillet radius of shaft
$r_{b\ max}$	1.5 mm	Maximum fillet radius of housing

Calculation factors

	T3EB070	Comparative designation to ISO 10317 and ISO 355
e	0.42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.43	Dynamic axial load factor
Y_0	0.79	Static axial load factor