

FAG

32020-X-XL

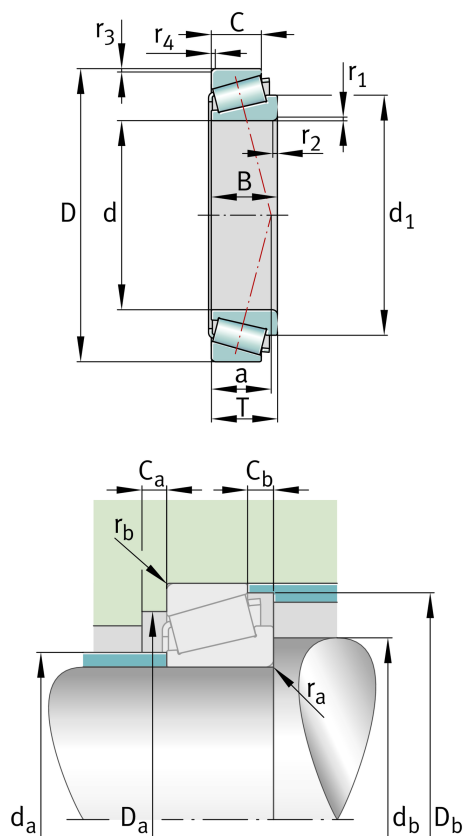
Tapered roller bearing

Schaeffler ID:
0782838500000

Tapered roller bearings 320, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

Technical information

**Main Dimensions & Performance Data**

d	100 mm	Bore diameter
D	150 mm	Outside diameter
B	32 mm	Width, inner ring
C	24 mm	Width, outer ring
T	32 mm	Width, total
C_r	205.000 N	Basic dynamic load rating, radial
C_{0r}	285.000 N	Basic static load rating, radial
C_{ur}	44.500 N	Fatigue load limit, radial
n_G	4.950 1/min	Limiting speed
n_{gr}	2.900 1/min	Thermal speed rating
	1,92 kg	Weight

Dimensions

	T4CC100	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \min}$	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	33 mm	Distance between the apexes of the pressure cones
d_1	126,3 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	109 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	109 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	134 mm	Minimum diameter of housing shoulder
$D_{a \max}$	141 mm	Maximum diameter of housing shoulder
$D_{b \min}$	144 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	8 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

e	0,46	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,31	Dynamic axial load factor
Y_0	0,72	Static axial load factor

Temperature range

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