

FAG

32224-XL

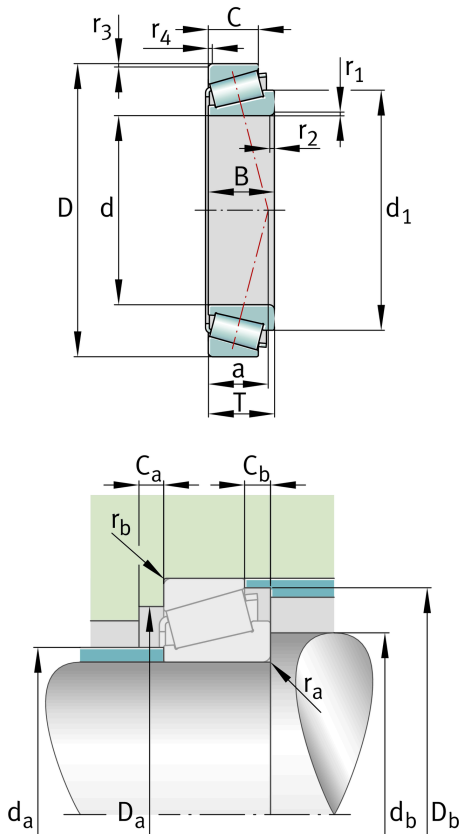
Tapered roller bearing

Schaeffler ID:
0923900720000

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

X-life

Technical information



Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	58 mm	Width, inner ring
C	50 mm	Width, outer ring
T	61.5 mm	Width, total
C_r	570,000 N	Basic dynamic load rating, radial
C_{0r}	730,000 N	Basic static load rating, radial
C_{ur}	107,000 N	Fatigue load limit, radial
n_G	3,800 1/min	Limiting speed
n_{gr}	2,150 1/min	Thermal speed rating
	9.24 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2.5 mm	Minimum chamfer dimension of outer ring back face
a	51 mm	Distance between the apexes of the pressure cones
d_1	164.3 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	136 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	132 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	181 mm	Minimum diameter of housing shoulder
$D_{a \max}$	203 mm	Maximum diameter of housing shoulder
$D_{b \min}$	204 mm	Minimum diameter of housing shoulder
$C_{a \min}$	7 mm	Minimum axial space
$C_{b \min}$	11.5 mm	Minimum axial space
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{b \max}$	2.5 mm	Maximum fillet radius of housing

Calculation factors

	T4FD120	Comparative designation to ISO 10317 and ISO 355
e	0.43	Limiting value of F_a/F_r 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

Temperature range

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