



FAG

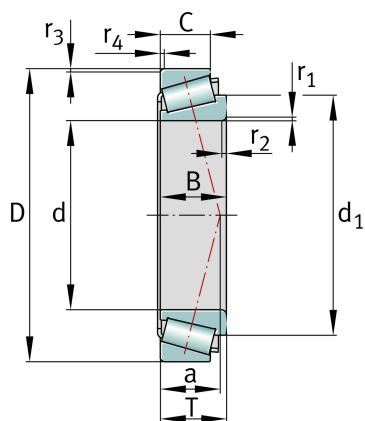
32028-X-XL

Tapered roller bearing

Schaeffler ID:
0793434900000Tapered 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	140 mm	Bore diameter
D	210 mm	Outside diameter
B	45 mm	Width, inner ring
C	34 mm	Width, outer ring
T	45 mm	Width, total
C_r	400,000 N	Basic dynamic load rating, radial
C_{0r}	590,000 N	Basic static load rating, radial
C_{ur}	86,000 N	Fatigue load limit, radial
n_G	3,800 1/min	Limiting speed
n_{gr}	2,180 1/min	Thermal speed rating
	5.329 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	2.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2 mm	Minimum chamfer dimension of outer ring back face
a	46 mm	Distance between the apexes of the pressure cones
d_1	175.6 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	153 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	150 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	187 mm	Minimum diameter of housing shoulder
$D_{a \max}$	200 mm	Maximum diameter of housing shoulder
$D_{b \min}$	202 mm	Minimum diameter of housing shoulder
$C_{a \min}$	8 mm	Minimum axial space
$C_{b \min}$	11 mm	Minimum axial space
$r_{a \max}$	2.5 mm	Maximum fillet radius of shaft
$r_{b \max}$	2 mm	Maximum fillet radius of housing

Calculation factors

	T4DC140	Comparative designation to ISO 10317 and ISO 355
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.