



FAG

320/32-X

Tapered roller bearing

Schaeffler ID:
0167114590000

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

Technical information

**Main Dimensions & Performance Data**

d	32 mm	Bore diameter
D	58 mm	Outside diameter
B	17 mm	Width, inner ring
C	13 mm	Width, outer ring
T	17 mm	Width, total
C_r	39,000 N	Basic dynamic load rating, radial
C_{0r}	48,500 N	Basic static load rating, radial
C_{ur}	5,800 N	Fatigue load limit, radial
n_G	12,600 1/min	Limiting speed
n_{gr}	7,500 1/min	Thermal speed rating
	0.193 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	1 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	1 mm	Minimum chamfer dimension of outer ring back face
a	14 mm	Distance between the apexes of the pressure cones
d_1	46.5 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \text{ max}}$	38 mm	Maximum diameter of shaft shoulder
$d_{b \text{ min}}$	38 mm	Minimum diameter of shaft shoulder
$D_{a \text{ min}}$	50 mm	Minimum diameter of housing shoulder
$D_{a \text{ max}}$	52 mm	Maximum diameter of housing shoulder
$D_{b \text{ min}}$	55 mm	Minimum diameter of housing shoulder
$C_{a \text{ min}}$	3 mm	Minimum axial space
$C_{b \text{ min}}$	4 mm	Minimum axial space
$r_{a \text{ max}}$	1 mm	Maximum fillet radius of shaft
$r_{b \text{ max}}$	1 mm	Maximum fillet radius of housing

Calculation factors

	T4CC032	Comparative designation to ISO 10317 and ISO 355
e	0.45	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.32	Dynamic axial load factor
Y ₀	0.73	Static axial load factor

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.