



FAG

31326-X

Tapered roller bearing

Schaeffler ID:
0190020920000

Tapered roller bearings 313, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	130 mm	Bore diameter
D	280 mm	Outside diameter
B	66 mm	Width, inner ring
C	44 mm	Width, outer ring
T	72 mm	Width, total
C_r	610,000 N	Basic dynamic load rating, radial
C_{0r}	790,000 N	Basic static load rating, radial
C_{ur}	94,000 N	Fatigue load limit, radial
n_G	2,430 1/min	Limiting speed
n_{gr}	1,860 1/min	Thermal speed rating
	18.8 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	4 mm	Minimum chamfer dimension of outer ring back face
a	87 mm	Distance between the apexes of the pressure cones
d_1	206 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \text{ max}}$	157 mm	Maximum diameter of shaft shoulder
$d_{b \text{ min}}$	148 mm	Minimum diameter of shaft shoulder
$D_{a \text{ min}}$	218 mm	Minimum diameter of housing shoulder
$D_{a \text{ max}}$	262 mm	Maximum diameter of housing shoulder
$D_{b \text{ min}}$	261 mm	Minimum diameter of housing shoulder
$C_{a \text{ min}}$	9 mm	Minimum axial space
$C_{b \text{ min}}$	28 mm	Minimum axial space
$r_{a \text{ max}}$	5 mm	Maximum fillet radius of shaft
$r_{b \text{ max}}$	4 mm	Maximum fillet radius of housing

Calculation factors

	T7GB130	Comparative designation to ISO 10317 and ISO 355
e	0.83	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	0.73	Dynamic axial load factor
Y ₀	0.4	Static axial load factor

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.