



FAG

★ 33109

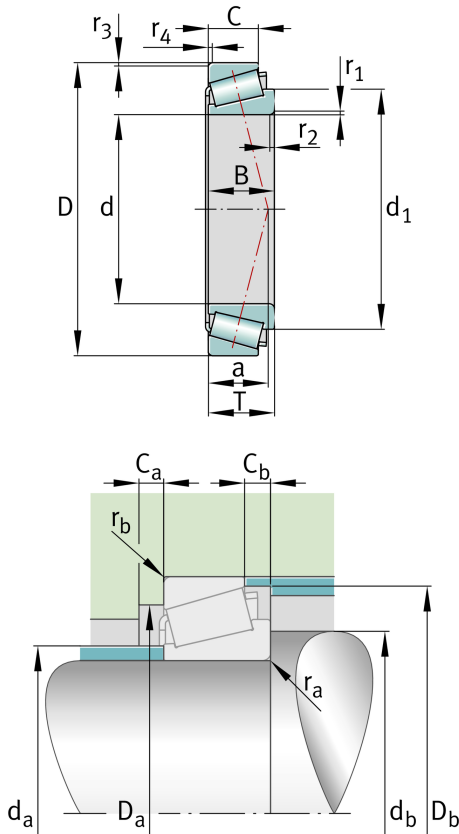
Tapered roller bearing

Schaeffler ID:  
0167136800000

★ Preferred product

Tapered roller bearings 331, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

## Technical information



## Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.
	0,539 kg	Weight

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	80 mm	Outside diameter
B	26 mm	Width, inner ring
C	20,5 mm	Width, outer ring
T	26 mm	Width, total
$C_r$	84.000 N	Basic dynamic load rating, radial
$C_{0r}$	115.000 N	Basic static load rating, radial
$C_{ur}$	14.700 N	Fatigue load limit, radial
$n_G$	8.800 1/min	Limiting speed
$n_{gr}$	4.950 1/min	Thermal speed rating

## Dimensions

$r_{1,2 \min}$	1,5 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	19 mm	Distance between the apexes of the pressure cones
$d_1$	63,8 mm	Guidance rib diameter of inner ring

### Mounting dimensions

$d_{a \max}$	52 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	52 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	69 mm	Minimum diameter of housing shoulder
$D_{a \max}$	73 mm	Maximum diameter of housing shoulder
$D_{b \min}$	77 mm	Minimum diameter of housing shoulder
$C_{a \min}$	4 mm	Minimum axial space
$C_{b \min}$	5,5 mm	Minimum axial space
$r_{a \max}$	1,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1,5 mm	Maximum fillet radius of housing

### Calculation factors

	T3CE045	Comparative designation to ISO 10317 and ISO 355
e	0,38	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
Y	1,57	Dynamic axial load factor
$Y_0$	0,86	Static axial load factor