



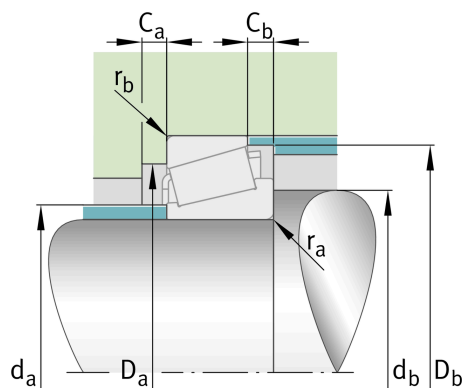
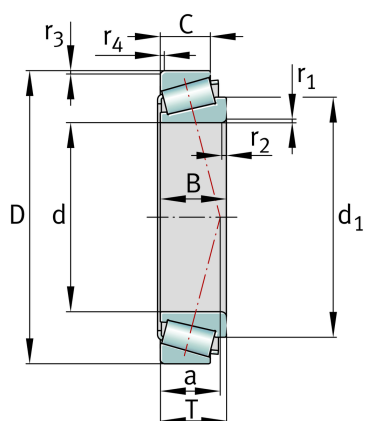
FAG

30256

Tapered roller bearing

Tapered roller bearings 302, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

## Technical information



## Main Dimensions &amp; Performance Data

d	280 mm	Bore diameter
D	500 mm	Outside diameter
B	80 mm	Width, inner ring
C	67 mm	Width, outer ring
T	89 mm	Width, total
$C_r$	1,450,000 N	Basic dynamic load rating, radial
$C_{0r}$	2,190,000 N	Basic static load rating, radial
$C_{ur}$	218,000 N	Fatigue load limit, radial
$n_G$	1,370 1/min	Limiting speed
$n_{gr}$	800 1/min	Thermal speed rating
$\approx m$	66.5 kg	Weight

## Mounting dimensions

$d_{a \max}$	325 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	338 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	442 mm	Minimum diameter of housing shoulder
$D_{a \max}$	477 mm	Maximum diameter of housing shoulder
$D_{b \min}$	465 mm	Minimum diameter of housing shoulder
$C_{a \min}$	12 mm	Minimum axial space
$C_{b \min}$	22 mm	Minimum axial space
$r_{a \max}$	6 mm	Maximum fillet radius of shaft
$r_{b \max}$	5 mm	Maximum fillet radius of housing

**Dimensions**

$r_{1,2 \text{ min}}$	6 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	5 mm	Minimum chamfer dimension of outer ring back face
$a$	97 mm	Distance between the apexes of the pressure cones
$d_1$	374 mm	Guidance rib diameter of inner ring

**Temperature range**

$T_{\text{min}}$	-30 °C	Operating temperature min.
$T_{\text{max}}$	200 °C	Operating temperature max.

**Calculation factors**

$e$	0.45	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1.33	Dynamic axial load factor
$Y_0$	0.73	Static axial load factor