



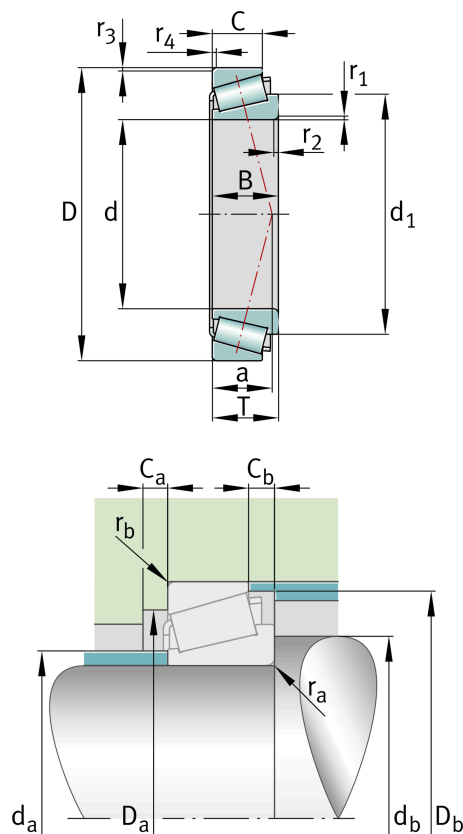
FAG

K29880-29820

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable, adjusted or in pairs

Technical information

**Main Dimensions & Performance Data**

d	266.7 mm	Bore diameter
D	323.85 mm	Outside diameter
B	22.225 mm	Width, inner ring
C	15.875 mm	Width, outer ring
T	22.225 mm	Width, total
C_r	150,000 N	Basic dynamic load rating, radial
C_{0r}	370,000 N	Basic static load rating, radial
C_{ur}	27,500 N	Fatigue load limit, radial
n_G	2,230 1/min	Limiting speed
n_{gr}	1,010 1/min	Thermal speed rating
$\approx m$	4.547 kg	Weight

Mounting dimensions

$d_{a \max}$	275 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	277 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	310 mm	Minimum diameter of housing shoulder
$D_{b \min}$	312 mm	Minimum diameter of housing shoulder
$C_{a \min}$	4 mm	Minimum axial space
$C_{b \min}$	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

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	43 mm	Distance between the apexes of the pressure cones
d_1	294.5 mm	Guidance rib diameter of inner ring

Temperature range

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

Calculation factors

e	0.35	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1.73	Dynamic axial load factor
Y_0	0.95	Static axial load factor