



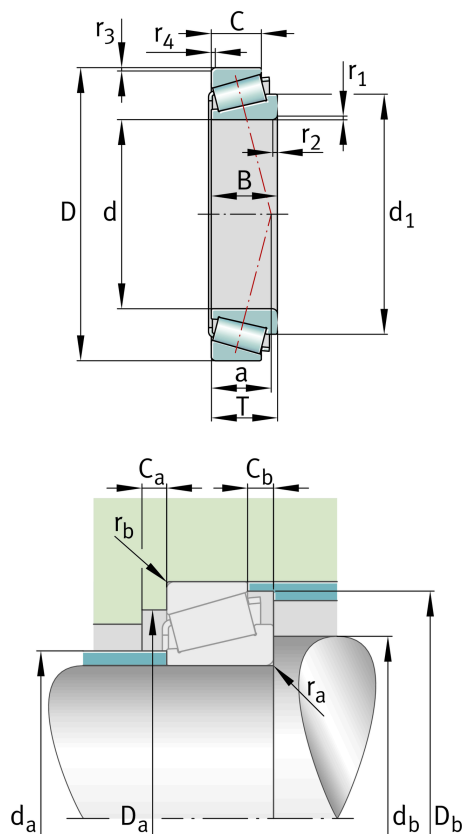
FAG

K29586-29520

Tapered roller bearing

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

Technical information



Main Dimensions & Performance Data

d	63.5 mm	Bore diameter
D	107.95 mm	Outside diameter
B	25.4 mm	Width, inner ring
C	19.05 mm	Width, outer ring
T	25.4 mm	Width, total
C_r	94,000 N	Basic dynamic load rating, radial
C_{0r}	143,000 N	Basic static load rating, radial
C_{ur}	18,500 N	Fatigue load limit, radial
n_G	6,500 1/min	Limiting speed
n_{gr}	4,050 1/min	Thermal speed rating
$\approx m$	0.937 kg	Weight

Mounting dimensions

$d_{a \max}$	71 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	73 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	96 mm	Minimum diameter of housing shoulder
$D_{b \min}$	103 mm	Minimum diameter of housing shoulder
$C_{a \min}$	3 mm	Minimum axial space
$C_{b \min}$	6 mm	Minimum axial space
$r_{a \max}$	1.5 mm	Maximum fillet radius of shaft
$r_{b \max}$	3.3 mm	Maximum fillet radius of housing

Dimensions

$r_{1,2 \min}$	1.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	3.3 mm	Minimum chamfer dimension of outer ring back face
a	25 mm	Distance between the apexes of the pressure cones
d_1	89.4 mm	Guidance rib diameter of inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

e	0.46	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1.31	Dynamic axial load factor
Y_0	0.72	Static axial load factor