



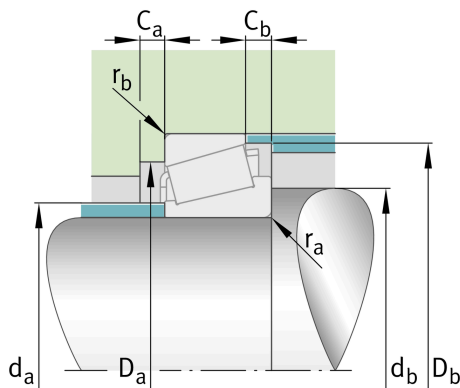
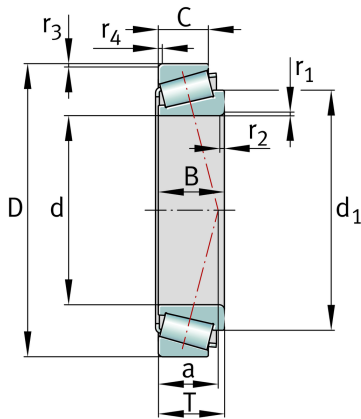
FAG

**K29590-29520**

Tapered roller bearing

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

## Technical information

**Main Dimensions & Performance Data**

d	66.675 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
$C_{ur}$	18,000 N	Fatigue load limit, radial
$n_G$	6,500 1/min	Limiting speed
$n_{gr}$	4,100 1/min	Thermal speed rating
$\approx m$	0.937 kg	Weight

**Mounting dimensions**

$d_{a \max}$	76 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	80 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	94 mm	Minimum diameter of housing shoulder
$D_{a \max}$	97 mm	Maximum diameter of housing shoulder
$D_{b \min}$	102 mm	Minimum diameter of housing shoulder
$C_{a \min}$	4 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**

$r_{1,2 \text{ min}}$	1.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	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**

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