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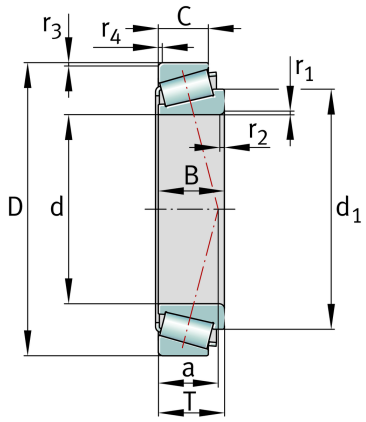
FAG

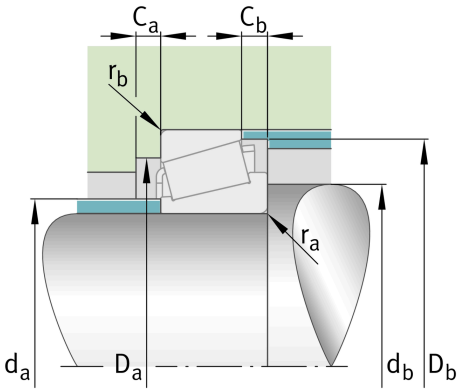
K767-X-752

Tapered roller bearing

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

Technical information





Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	161.925 mm	Outside diameter
B	48.26 mm	Width, inner ring
C	38.1 mm	Width, outer ring
T	47.625 mm	Width, total
C_r	247,000 N	Basic dynamic load rating, radial
C_{0r}	340,000 N	Basic static load rating, radial
C_{ur}	41,500 N	Fatigue load limit, radial
n_G	4,400 1/min	Limiting speed
$n_{\vartheta r}$	3,750 1/min	Thermal speed rating
≈m	3.98 kg	Weight

Mounting dimensions

$d_{a\ max}$	100 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	106 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	144 mm	Minimum diameter of housing shoulder
$D_{b\ min}$	150 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	5 mm	Minimum axial space
$C_{b\ min}$	7.5 mm	Minimum axial space
$r_{a\ max}$	3 mm	Maximum fillet radius of shaft
$r_{b\ max}$	3.3 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2\ min}$	3 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	36 mm	Distance between the apexes of the pressure cones
d_1	121 mm	Guidance rib diameter of inner ring

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Temperature range

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

Calculation factors

e	0.34	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.76	Dynamic axial load factor
Y_0	0.97	Static axial load factor