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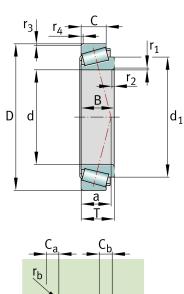


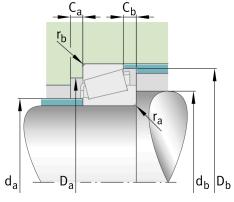
AK544091-544118

Tapered roller bearing

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

Technical information





Main Dimensions & Performance Data

d	231.775 mm	Bore diameter
D	300.038 mm	Outside diameter
В	31.75 mm	Width, inner ring
С	23.813 mm	Width, outer ring
Т	33.338 mm	Width, total
C _r	250,000 N	Basic dynamic load rating, radial
C _{0r}	510,000 N	Basic static load rating, radial
C ur	57,000 N	Fatigue load limit, radial
n _G	2,320 1/min	Limiting speed
≈m	5.5 kg	Weight

Mounting dimensions

d _{a max}	243 mm	Maximum diameter of shaft shoulder
d _{b min}	247 mm	Minimum diameter of shaft shoulder
D a min	282 mm	Minimum diameter of housing shoulder
D a max	285 mm	Maximum diameter of housing shoulder
D _{b min}	287 mm	Minimum diameter of housing shoulder
C _{a min}	4 mm	Minimum axial space
C _{b min}	9.5 mm	Minimum axial space
r _{a max}	3.6 mm	Maximum fillet radius of shaft
r _{b max}	3.3 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2 min}	3.6 mm	Minimum chamfer dimension of inner ring back
		face
r _{3, 4 min}	3.3 mm	Minimum chamfer dimension of outer ring back
		face
а	50 mm	Distance between the apexes of the pressure
		cones
d ₁	262.5 mm	Guidance rib diameter of inner ring

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

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Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.

Calculation factors		
е	0.4	Limiting value of Fa/Fr for the applicability of
		diff. Values of factors X and Y
Υ	1.49	Dynamic axial load factor
Υ ₀	0.82	Static axial load factor