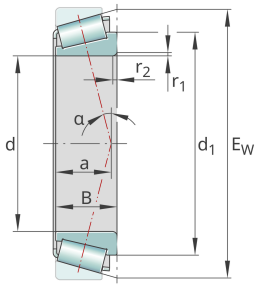
FAG

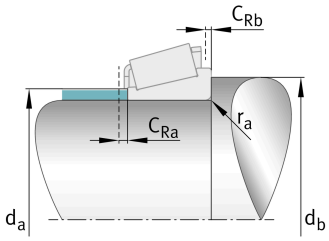
K3578

Tapered roller bearing

Tapered roller bearings without outer ring
(Cone) K-Series, in inch sizes

Technical information





Your current product variant

Tolerance class	ABMA4	Class 4 (ANSI/ABMA 19.2:2013)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Quality level	Standard	
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	44,45 mm	Bore diameter
B	30,886 mm	Width, inner ring
C_r	97.000 N	Basic dynamic load rating, radial
C_{0r}	121.000 N	Basic static load rating, radial
C_{ur}	15.200 N	Fatigue load limit, radial
n_G	8.500 1/min	Limiting speed
$n_{\vartheta r}$	6.400 1/min	Thermal speed rating
≈m	0,5 kg	Weight

Mounting dimensions

$d_{a\ max}$	51 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	57 mm	Minimum diameter of shaft shoulder
$C_{Ra\ min}$	3,3 mm	Minimum axial space
$C_{Rb\ max}$	0,3 mm	Maximum axial space
$r_{a\ max}$	3,5 mm	Maximum fillet radius of shaft

Dimensions

$r_{1,2\ min}$	3,5 mm	Minimum chamfer dimension of inner ring back face
a	21 mm	Distance between the apexes of the pressure cones
d_1	64,7 mm	Guidance rib diameter of inner ring
E_w	81,668 mm	Outer envelope circle
α	11,542 °	Contact angle

Temperature range

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

Calculation factors

e	0,31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,96	Dynamic axial load factor
Y_0	1,08	Static axial load factor

Characteristics

Fr Radial load

Fa Axial load in one direction

Grease Lubrication

Oil Lubrication

Not sealed