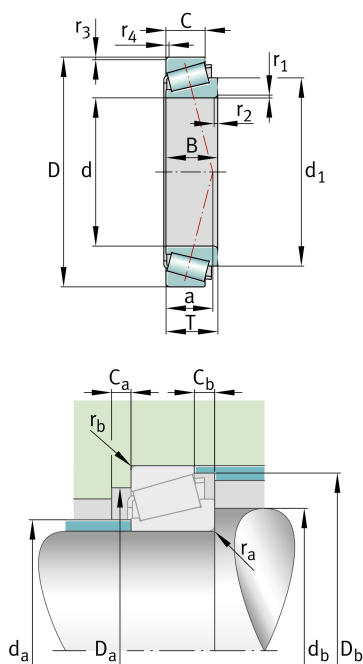


**FAG****33118** [↗](#)

Tapered roller bearing

Tapered roller bearings 331, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Your current product variant

Tolerance class	P6X	Class 6X (ISO 492:2014)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Internal design	Standard	
Quality level	Standard	
Number of rolling element rows	1	Single-row design

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	150 mm	Outside diameter
B	45 mm	Width, inner ring
C	35 mm	Width, outer ring
T	45 mm	Width, total
C _r	265,000 N	Basic dynamic load rating, radial
C _{0r}	420,000 N	Basic static load rating, radial
C _{ur}	52,000 N	Fatigue load limit, radial
n _G	4,450 1/min	Limiting speed
n _{gr}	2,800 1/min	Thermal speed rating
m	3.147 kg	Weight



Mounting dimensions

d _a max	100 mm	Maximum diameter of shaft shoulder
d _b min	100 mm	Minimum diameter of shaft shoulder
D _a min	130 mm	Minimum diameter of housing shoulder
D _a max	140 mm	Maximum diameter of housing shoulder
D _b min	144 mm	Minimum diameter of housing shoulder
C _a min	7 mm	Minimum axial space
C _b min	10 mm	Minimum axial space
r _a max	2.5 mm	Maximum fillet radius of shaft
r _b max	2 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2} min	2.5 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4} min	2 mm	Minimum chamfer dimension of outer ring back face
a	36 mm	Distance between the apexes of the pressure cones
d ₁	121.5 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	0.4	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.51	Dynamic axial load factor
Y ₀	0.83	Static axial load factor

Additional information

T3DE090	Comparative designation to ISO 10317 and ISO 355
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Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed