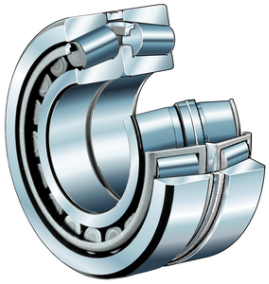
View product details on medias

15.06.2026, 09:34:27 UTC

SCHAEFFLER



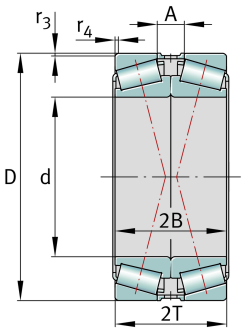
FAG

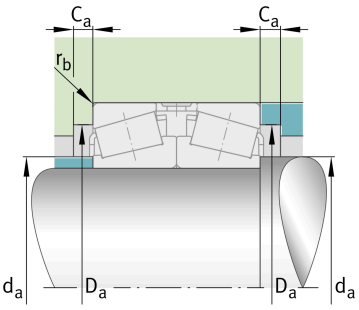
31324-X-DF-A190-250

Tapered roller bearing set

Tapered roller bearing set 313..-DF, X-arrangement

Technical information





Your current product variant

Tolerance class	PN	Normal (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Axial internal clearance	A190-250	Axial internal clearance between 190 and 250 µm
Quality level	Standard	
Matched arrangement	F	X arrangement
Number of rows	2	Double-row design

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	260 mm	Outside diameter
2B	124 mm	Inner ring total width
2T	136 mm	Outer ring total width
C_r	930.000 N	Basic dynamic load rating, radial
C_{0r}	1.400.000 N	Basic static load rating, radial
C_{ur}	168.000 N	Fatigue load limit, radial
n_G	2.600 1/min	Limiting speed
$n_{\vartheta r}$	1.690 1/min	Thermal speed rating
≈m	32,8 kg	Weight

Mounting dimensions

$d_{a\ max}$	145 mm	Maximum diameter of shaft shoulder
$D_{a\ min}$	203 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	246 mm	Maximum diameter of housing shoulder
$C_{a\ min}$	9 mm	Minimum axial space
$r_{b\ max}$	3 mm	Maximum fillet radius of housing

Dimensions

$r_{3,\ 4\ min}$	3 mm	Minimum chamfer dimension of outer ring back face
A	52 mm	Width of spacer

Temperature range

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

Calculation factors

e	0,83	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	0,82	Dynamic axial load factor
Y_2	1,22	Dynamic axial load factor
Y_0	0,8	Static axial load factor

Characteristics

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