

**FAG****32024-X-XL-P5**

Tapered roller bearing

Tapered roller bearings 320, main dimensions  
acc. to DIN 720, separable**X-life**

## Technical information

## Your current product variant

Tolerance class	P5	Class 5 (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Quality level	XL	X-life
Number of rows	1	Single-row design

## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	38 mm	Width, inner ring
C	29 mm	Width, outer ring
T	38 mm	Width, total
$C_r$	310.000 N	Basic dynamic load rating, radial
$C_{0r}$	420.000 N	Basic static load rating, radial
$C_{ur}$	63.000 N	Fatigue load limit, radial
$n_G$	4.450 1/min	Limiting speed
$n_{gr}$	2.460 1/min	Thermal speed rating
$\approx m$	3,26 kg	Weight





### Mounting dimensions

$d_{a \max}$	130 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	136 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	161 mm	Minimum diameter of housing shoulder
$D_{a \max}$	170 mm	Maximum diameter of housing shoulder
$D_{b \min}$	173 mm	Minimum diameter of housing shoulder
$C_{a \min}$	7,5 mm	Minimum axial space
$C_{b \min}$	9 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
$a$	40 mm	Distance between the apexes of the pressure cones
$d_1$	151,2 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

$e$	0,46	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1,31	Dynamic axial load factor
$Y_0$	0,72	Static axial load factor

### Additional information

T4DC120

Comparative designation to ISO 10317 and ISO 355



### Characteristics

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