

FAG

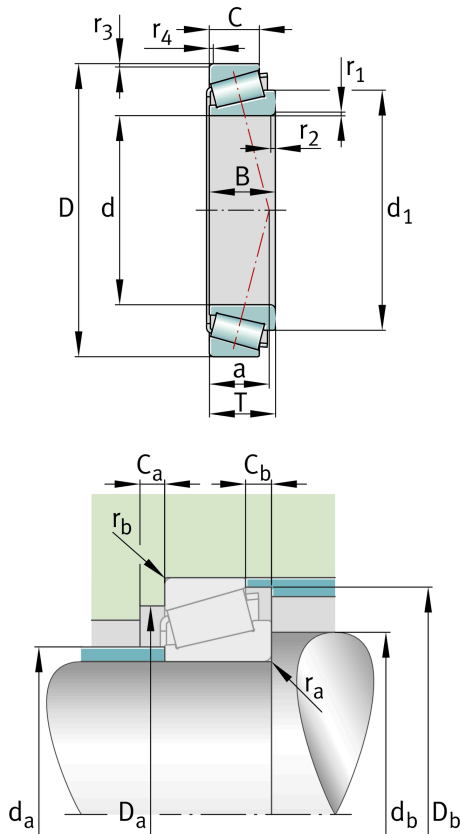
**31324-X**

Tapered roller bearing

Schaeffler ID:  
0167114160000

Tapered roller bearings 313, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

## Technical information

**Main Dimensions & Performance Data**

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	62 mm	Width, inner ring
C	42 mm	Width, outer ring
T	68 mm	Width, total
$C_r$	540,000 N	Basic dynamic load rating, radial
$C_{0r}$	700,000 N	Basic static load rating, radial
$C_{ur}$	84,000 N	Fatigue load limit, radial
$n_G$	2,600 1/min	Limiting speed
$n_{gr}$	2,020 1/min	Thermal speed rating
	15.43 kg	Weight

**Dimensions**

$r_{1,2 \text{ min}}$	4 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	3 mm	Minimum chamfer dimension of outer ring back face
a	82 mm	Distance between the apexes of the pressure cones
$d_1$	192 mm	Guidance rib diameter of inner ring

**Mounting dimensions**

$d_{a \text{ max}}$	145 mm	Maximum diameter of shaft shoulder
$d_{b \text{ min}}$	134 mm	Minimum diameter of shaft shoulder
$D_{a \text{ min}}$	203 mm	Minimum diameter of housing shoulder
$D_{a \text{ max}}$	246 mm	Maximum diameter of housing shoulder
$D_{b \text{ min}}$	244 mm	Minimum diameter of housing shoulder
$C_{a \text{ min}}$	9 mm	Minimum axial space
$C_{b \text{ min}}$	26 mm	Minimum axial space
$r_{a \text{ max}}$	4 mm	Maximum fillet radius of shaft
$r_{b \text{ max}}$	3 mm	Maximum fillet radius of housing

**Calculation factors**

	T7GB120	Comparative designation to ISO 10317 and ISO 355
e	0.83	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	0.73	Dynamic axial load factor
Y <sub>0</sub>	0.4	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.