



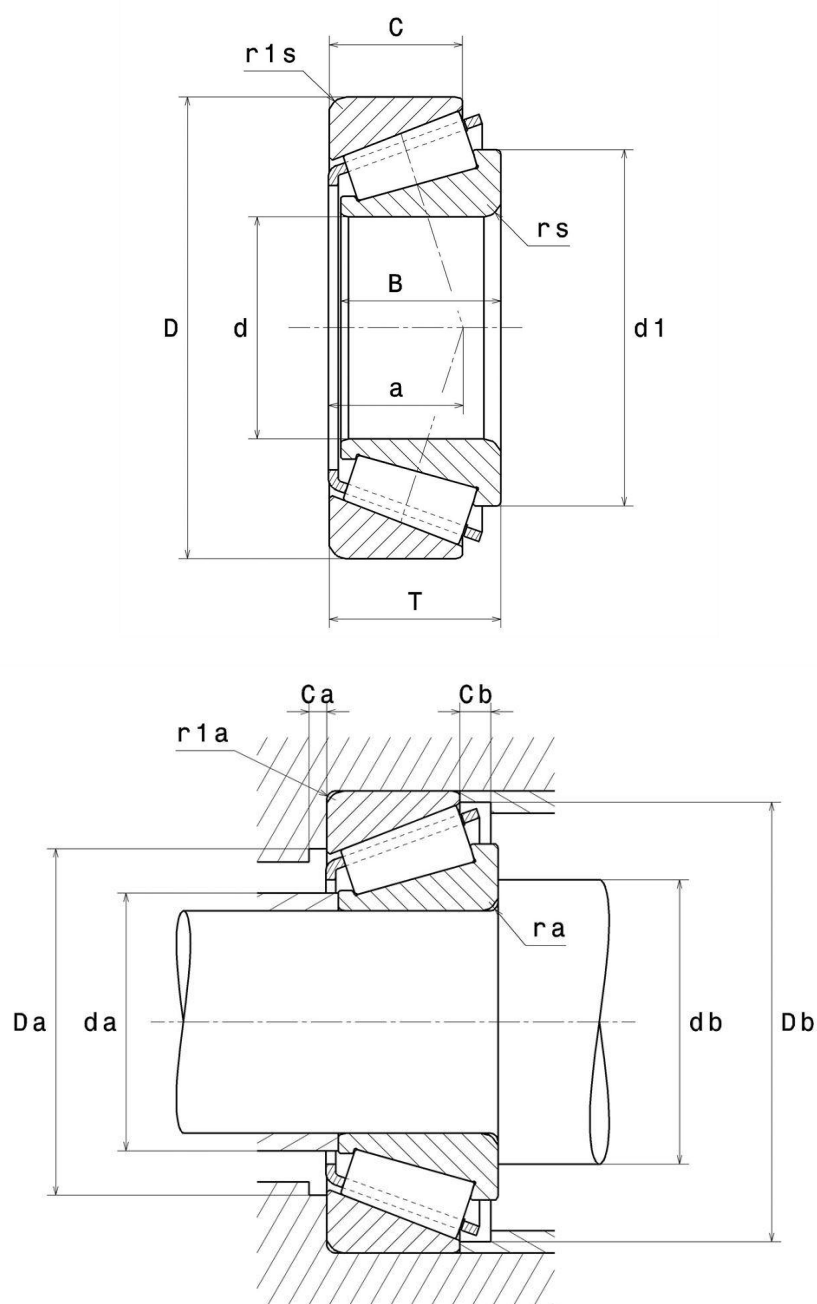
**Technical data**

**32224U**

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

**VISUAL (S)**



# 32224U

## Single row tapered roller bearings

### PRODUCT DIMENSIONS

<b>Internal diameter (d)</b>	120 mm
<b>External diameter (D)</b>	215 mm
<b>Bearing/Inner ring width (B)</b>	58 mm
<b>Outer ring width (C)</b>	50 mm
<b>Total width (T)</b>	61,5 mm
<b>Charge load application point a</b>	51,5 mm
<b>Min fillet radius (rs)</b>	2,5 mm
<b>Min fillet radius r1s</b>	2 mm
<b>Coef (e)</b>	0.44
<b>Upper axial load coef (Y2)</b>	1.38
<b>Static axial load coef (Y0)</b>	0.76
<b>Mass</b>	9,08 kg
<b>ISO 355 reference</b>	T4FD120
<b>Brand</b>	NTN

### PRODUCT PERFORMANCE

<b>Dynamic load (C)</b>	510 kN
<b>Rating life coefficient, A2</b>	1.0
<b>Static load (C0)</b>	680 kN
<b>Fatigue limit load (Cu)</b>	71,5 kN
<b>Nlim (oil)</b>	2200 tr/min
<b>Nlim (grease)</b>	1700 tr/min
<b>Min operating temperature (Tmin)</b>	-40 °C
<b>Max operating temperature (Tmax)</b>	120 °C

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## ABUTMENT

Max shoulder diameter IR (da max)	134 mm
Min IR shoulder diameter (db min)	136 mm
Max shoulder diameter OR (Da max)	203 mm
Min OR shoulder diameter Db min	204 mm
Max fillet radius ra max	2,5 mm
Maxi fillet radius r1a	2 mm

## INDUSTRY CALCUL FACTORS

### Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

### Equivalent static radial load

$$Po = Xo.Fr + Yo.Fa$$

Xo	Yo
0.5	Yo

If  $Po < Fr$ , then use  $Po = Fr$

The values for e, Y2 and Yo are shown in the above table