



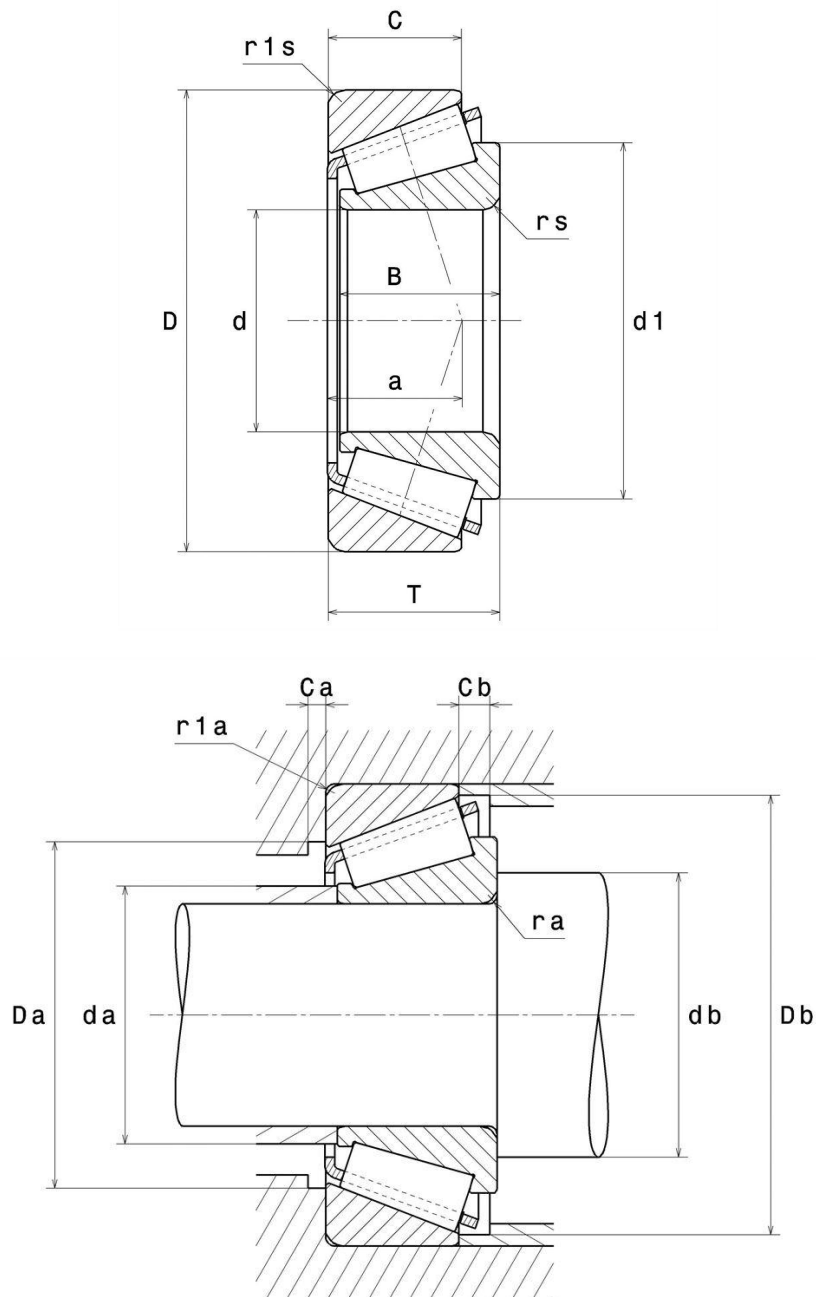
**Technical data**

**4T-30304**

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

**VISUAL (S)**



# 4T-30304

Single row tapered roller bearings

## PRODUCT DIMENSIONS

Internal diameter d	20 mm
External diameter D	52 mm
Bearing/Inner ring width(B)	15 mm
Outer ring width (C )	13 mm
Total width (T)	16,25 mm
External diameter inner ring d1	35 mm
Charge load application point a	11,5 mm
Min fillet radius rs	1,5 mm
Min fillet radius r1s	1,5 mm
Coef e	0.3
Upper axial load coef (Y2)	2.0
Static axial load coef (Y0)	1.1
Mass	0,169 kg
ISO 355 reference	T2FB020
Brand	NTN

## PRODUCT PERFORMANCE

Dynamic load, C	39 kN
Rating life coefficient, A2	1.0
Static load, C0	34 kN
Nlim (oil)	11000 tr/min
Nlim (grease)	8000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.394 Hz
Characteristic rolling element frequency, BSF	4.429 Hz
Characteristic outer ring frequency, BPF0	5.125 Hz
Characteristic inner ring frequency, BRF0	7.875 Hz

## ABUTMENT

Max shoulder diameter IR da max	28 mm
Min IR shoulder diameter (db min)	28,5 mm
Min shoulder diameter OR Da min	42,5 mm

## ABUTMENT

Max shoulder diameter OR Da max	43,5 mm
Min OR shoulder diameter Db min	47 mm
Min clearance Ca	2 mm
Min clearance Cb	3 mm
Max fillet radius ra max	1,5 mm
Maxi fillet radius r1a	1,5 mm

## INDUSTRY CALCUL FACTORS

## Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

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

## Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X <sub>0</sub>	Y <sub>0</sub>
0.5	Y0

If  $P_0 < F_r$ , then use  $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table