



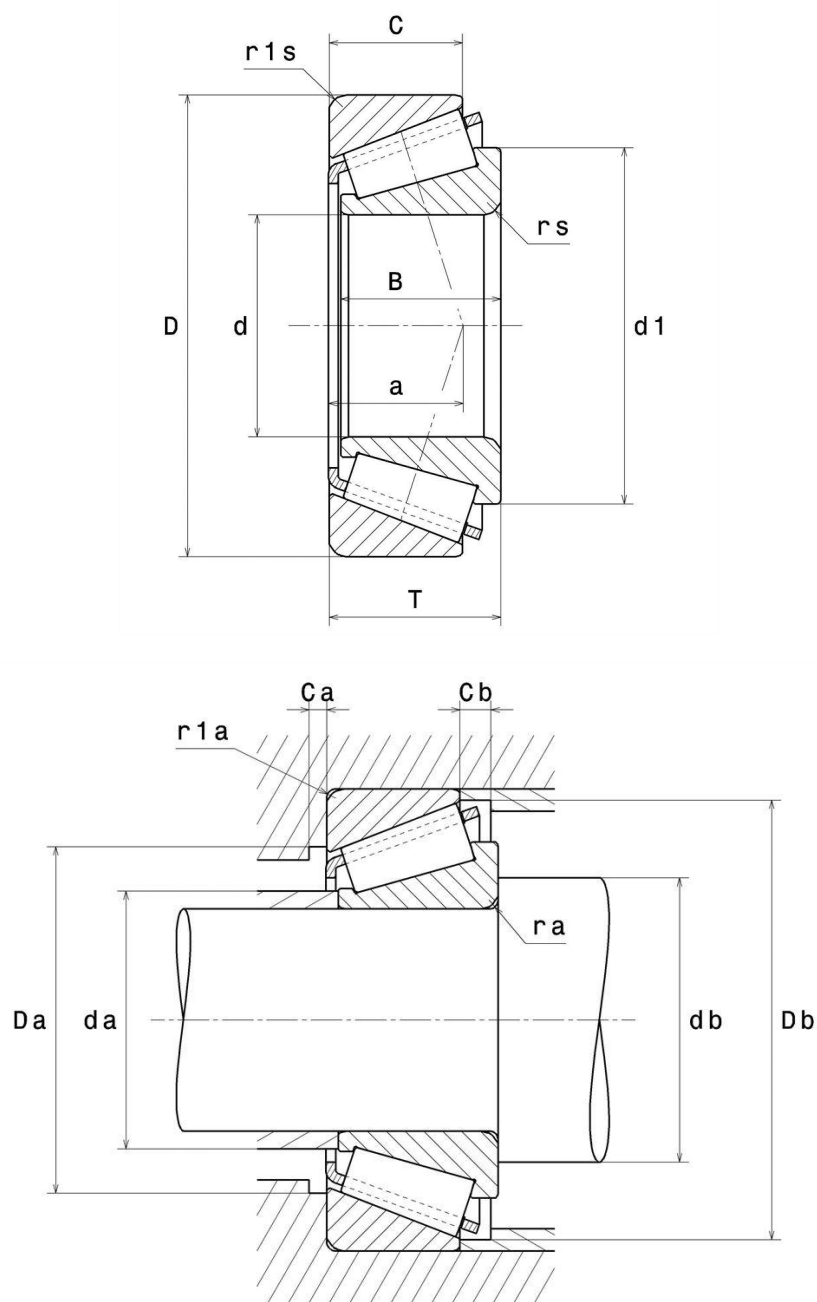
**Technical data**

**30202**

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

**VISUAL (S)**



## PRODUCT DIMENSIONS

Internal diameter d	15 mm
External diameter D	35 mm
Bearing/Inner ring width(B)	11 mm
Outer ring width (C )	10 mm
Total width (T)	11,75 mm
Charge load application point a	8,5 mm
Min fillet radius rs	0,6 mm
Min fillet radius r1s	0,6 mm
Coef e	0.35
Upper axial load coef (Y2)	1.75
Static axial load coef (Y0)	0.95
Mass	0,052 kg
Brand	NTN

## PRODUCT PERFORMANCE

Dynamic load, C	14,9 kN
Rating life coefficient, A2	1.0
Static load, C0	12,3 kN
Nlim (oil)	15000 tr/min
Nlim (grease)	11000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.411 Hz
Characteristic rolling element frequency, BSF	5.322 Hz
Characteristic outer ring frequency, BPF0	4.936 Hz
Characteristic inner ring frequency, BPF1	7.064 Hz

## ABUTMENT

Max shoulder diameter IR da max	19,5 mm
Min IR shoulder diameter (db min)	20,5 mm
Min shoulder diameter OR Da min	28,5 mm
Max shoulder diameter OR Da max	30,5 mm
Min OR shoulder diameter Db min	33 mm

## ABUTMENT

Max fillet radius $r_a$ max	0,6 mm
Maxi fillet radius $r_{1a}$	0,6 mm

## INDUSTRY CALCUL FACTORS

## Equivalent dynamic radial load

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

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y <sub>2</sub>

## Equivalent static radial load

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

$X_0$	$Y_0$
0.5	Y <sub>0</sub>

If  $P_0 \leq F_r$ , then use  $P_0 = F_r$

The values for  $e$ , Y<sub>2</sub> and Y<sub>0</sub> are shown in the above table