



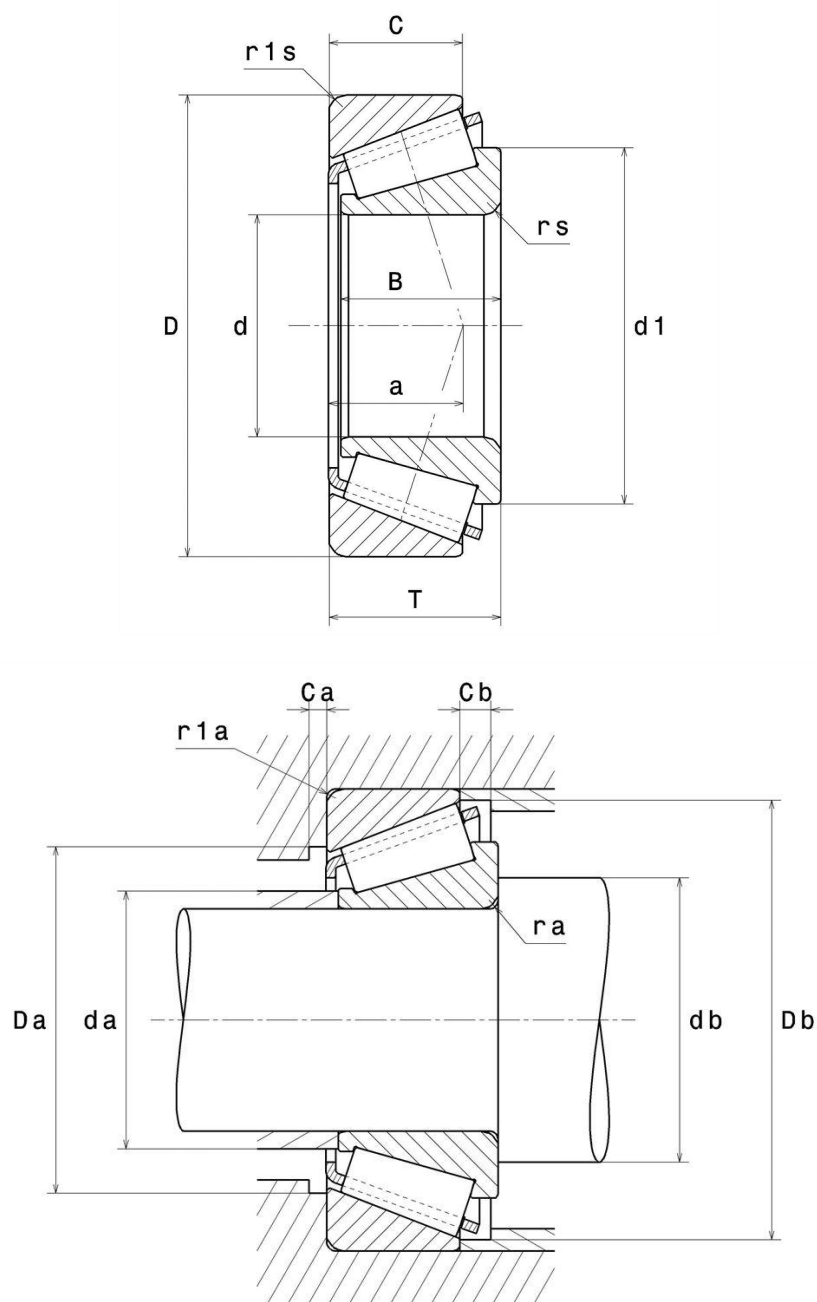
Technical data

30202

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



PRODUCT DIMENSIONS

d - Internal diameter	15 mm
D - External diameter	35 mm
B - Bearing/Inner ring width	11 mm
C - Outer ring width	10 mm
T - Total width	11.75 mm
a - Charge load application point	8.5 mm
rs - Min fillet radius	0.6 mm
r1s - Min fillet radius	0.6 mm
Mass	0.052 kg
Brand	NTN

PRODUCT PERFORMANCE

C - Dynamic load	14.9 kN
C0 - Static load	12.3 kN
A2 - Rating life coefficient	1
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.95
Y2 - Upper axial load coefficient	1.75
Nlim - Oil lubrication limit speed	15000 tr/min
Nlim - Grease lubrication limit speed	11000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C
FTF - Characteristic cage frequency	0.411 Hz
BSF - Characteristic rolling element frequency	5.322 Hz

PRODUCT PERFORMANCE

BPFO - Characteristic outer ring frequency	4.936 Hz
BPFI - Characteristic inner ring frequency	7.064 Hz

ABUTMENT

da max - Max shoulder diameter IR	19.5 mm
db min - Min IR shoulder diameter	20.5 mm
Da min - Min shoulder diameter OR	28.5 mm
Da max - Max shoulder diameter OR	30.5 mm
Db min - Min OR shoulder diameter	33 mm
ra max - Max fillet radius	0.6 mm
r1a - Max fillet radius	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 ₂

Equivalent static radial load

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

X_0	Y_0
0.5	Y ₀

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

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