

Technical data

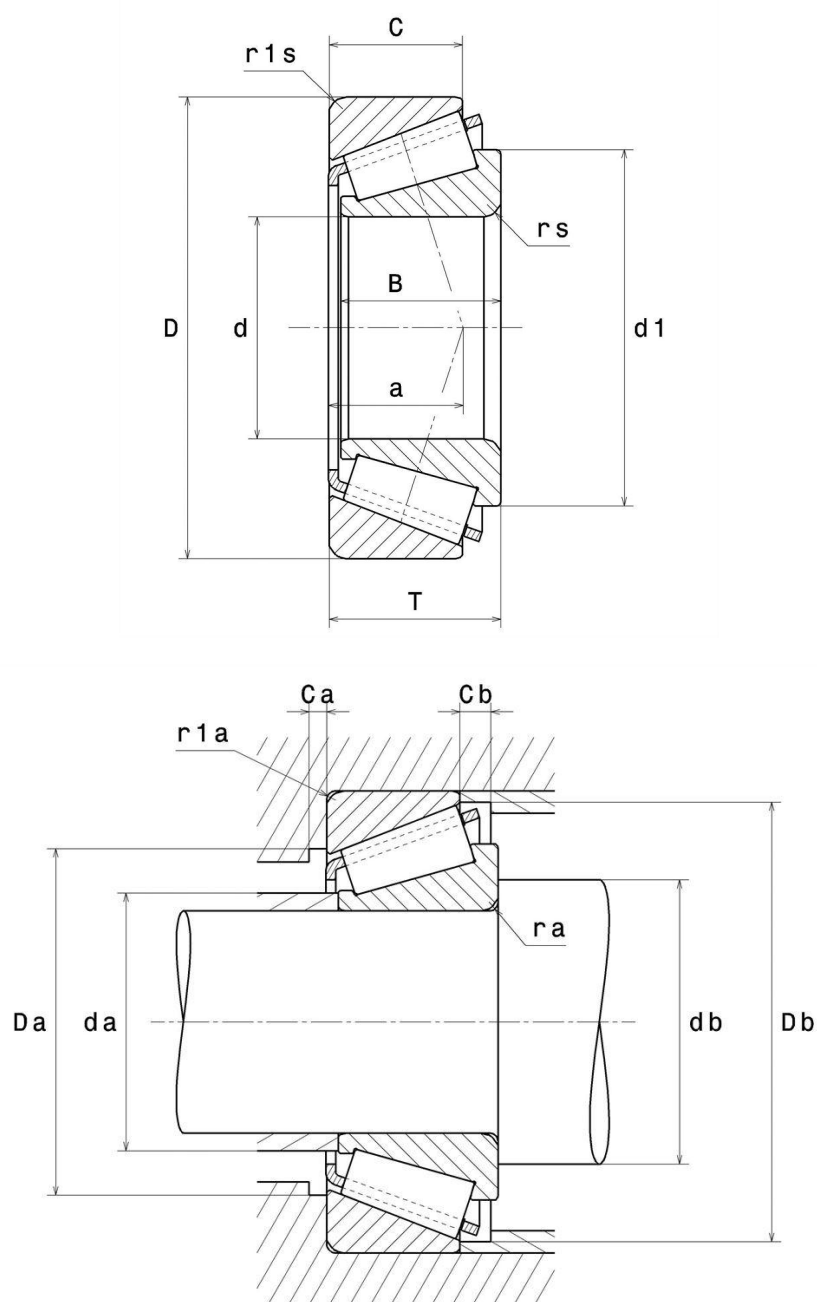
30222U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	110 mm
D - External diameter	200 mm
B - Bearing/Inner ring width	38 mm
C - Outer ring width	32 mm
T - Total width	41 mm
a - Charge load application point	40 mm
rs - Min fillet radius	2,5 mm
r1s - Min fillet radius	2 mm
Mass	5,19 kg
ISO 355 reference	T3FB110

PRODUCT PERFORMANCE	
C - Dynamic load	360000000 mN
C0 - Static load	435000000 mN
Cu - Fatigue limit load	46500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.79
Y2 - Upper axial load coefficient	1.43
N lim - Oil lubrication limit speed	14400 °/s
N lim - Grease lubrication limit speed	10800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



ABUTMENT

da max - Max shoulder diameter IR	124 mm
db min - Min IR shoulder diameter	129 mm
Da max - Max shoulder diameter OR	188 mm
Db min - Min OR shoulder diameter	188 mm
ra max - Max fillet radius	2,5 mm
r1a - Max fillet radius	2 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	Y2

Equivalent static radial load

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

X_0	Y_0
0.5	Y0

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

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

