

Technical data

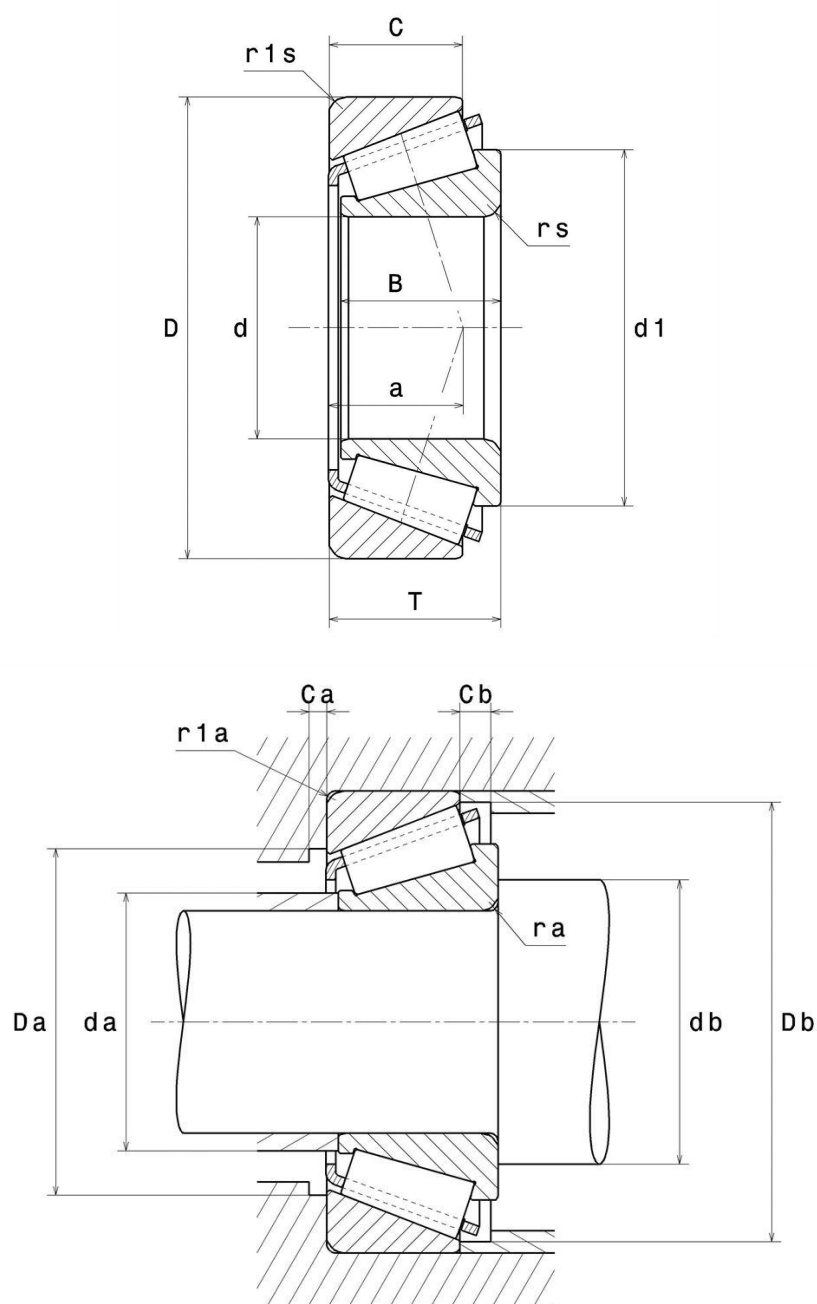
33024U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	120 mm
D - External diameter	180 mm
B - Bearing/Inner ring width	48 mm
C - Outer ring width	38 mm
T - Total width	48 mm
a - Charge load application point	36 mm
rs - Min fillet radius	2,5 mm
r1s - Min fillet radius	2 mm
Mass	4,14 kg

PRODUCT PERFORMANCE

C - Dynamic load	325000000 mN
C0 - Static load	520000000 mN
Cu - Fatigue limit load	56500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.31
Y0 - Static axial load coefficient	1.08
Y2 - Upper axial load coefficient	1.97
N lim - Oil lubrication limit speed	15000 °/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	132 mm
db min - Min IR shoulder diameter	130 mm
Da min - Min shoulder diameter OR	157 mm
Da max - Max shoulder diameter OR	170 mm
Db min - Min OR shoulder diameter	172 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	2 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

$$P_o = X_o.F_r + Y_o.F_a$$

X ₀	Y ₀
0.5	Y0

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

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