Technical data

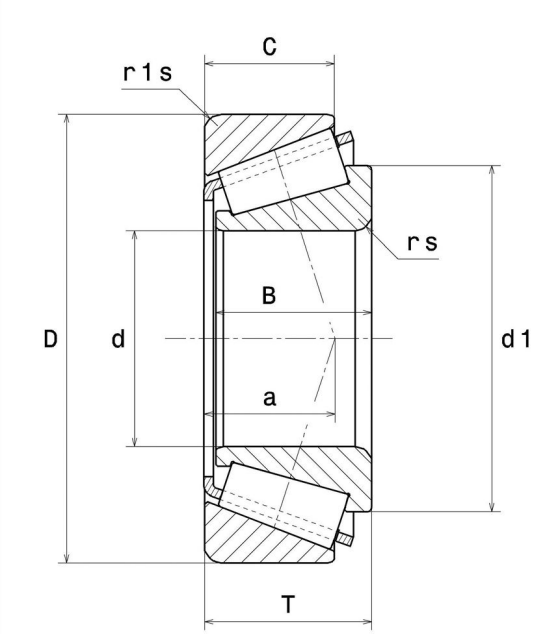
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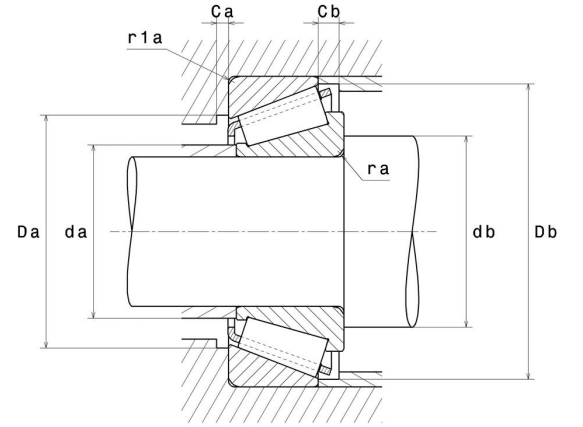
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	120 mm
D	180 mm
B	48 mm
C	38 mm
T	48 mm
a	36 mm
rs min	2.5 mm
r1s min	2 mm
e	0.31
Y2	1.97
Y0	1.08
Mass	4.14 kg
Brand	NTN

Product performance

Dynamic load, C	293 kN
Rating life coefficient, A2	1
Static load, C0	520 kN
Nlim (oil)	2,500 Tr/min
Nlim (grease)	1,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.81 Hz
Characteristic outer ring frequency, BPF0	12.74 Hz
Characteristic inner ring frequency, BPFI	15.26 Hz

Abutment dimensions

da max	132 mm
db min	130 mm
Da min	157 mm
Da max	170 mm
Db min	172 mm
ra max	2 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

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

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

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