Technical data

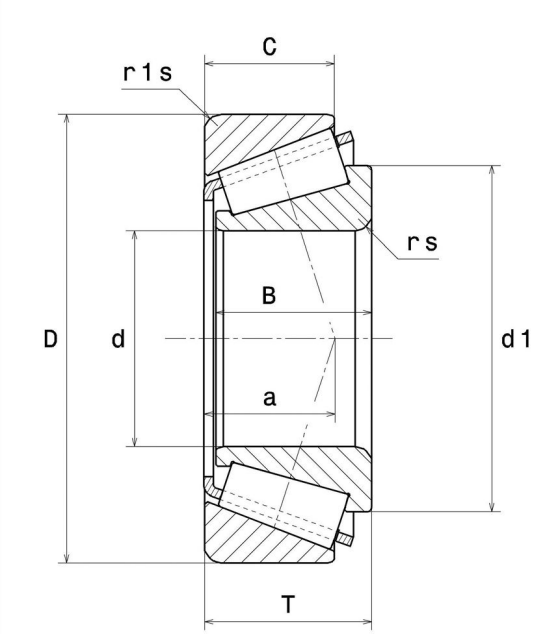
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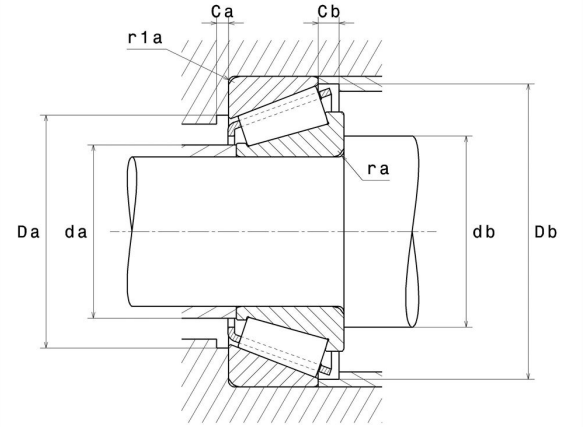
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	80 mm
D	110 mm
B	20 mm
C	16 mm
T	20 mm
d1	95 mm
a	20 mm
rs min	1 mm
r1s min	1 mm
e	0.35
Y2	1.71
Y0	0.94
Mass	0.54 kg
ISO 355 reference	T2BC080
Brand	NTN

Product performance

Dynamic load, C	72 kN
Rating life coefficient, A2	1
Static load, C0	121 kN
Fatigue limit load, Cu	14.8 kN
Nlim (oil)	4,000 Tr/min
Nlim (grease)	3,000 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	13.2 Hz
Characteristic outer ring frequency, BPF0	15.29 Hz
Characteristic inner ring frequency, BPFI	17.71 Hz

Abutment dimensions

da max	85 mm
db min	85.5 mm
Da min	99 mm
Da max	104.5 mm
Db min	106.5 mm
Ca min	4 mm
Cb min	4 mm
ra max	1 mm
r1a max	1 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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