Technical data

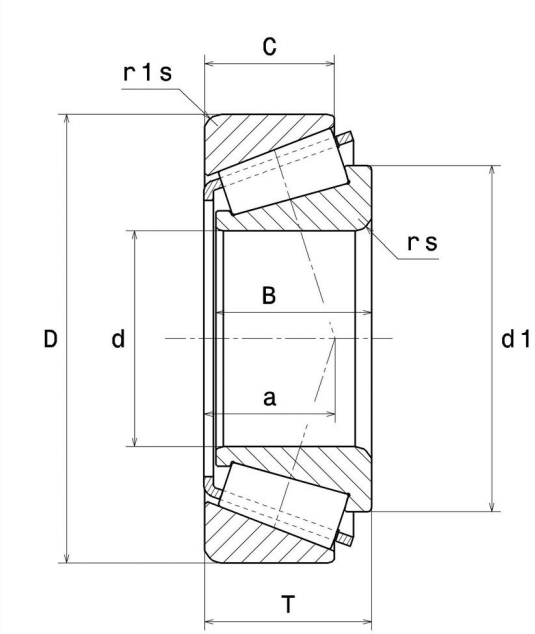
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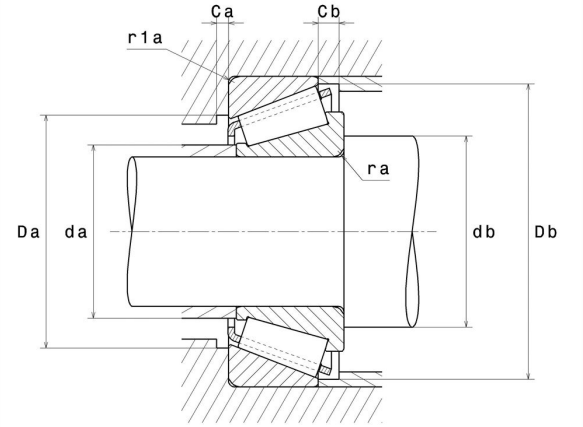
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	85 mm
D	180 mm
B	60 mm
C	49 mm
T	63.5 mm
d1	128.5 mm
a	43 mm
rs min	4 mm
r1s min	3 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	7.15 kg
ISO 355 reference	T2GD085
Brand	NTN

Product performance

Dynamic load, C	405 kN
Rating life coefficient, A2	1
Static load, C0	525 kN
Fatigue limit load, Cu	58.9 kN
Nlim (oil)	2,900 Tr/min
Nlim (grease)	2,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.16 Hz
Characteristic inner ring frequency, BPFI	8.84 Hz

Abutment dimensions

da max	102 mm
db min	103 mm
Da min	150 mm
Da max	166 mm
Db min	167 mm
Ca min	5 mm
Cb min	14.5 mm
ra max	3 mm
r1a max	2.5 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