Technical data

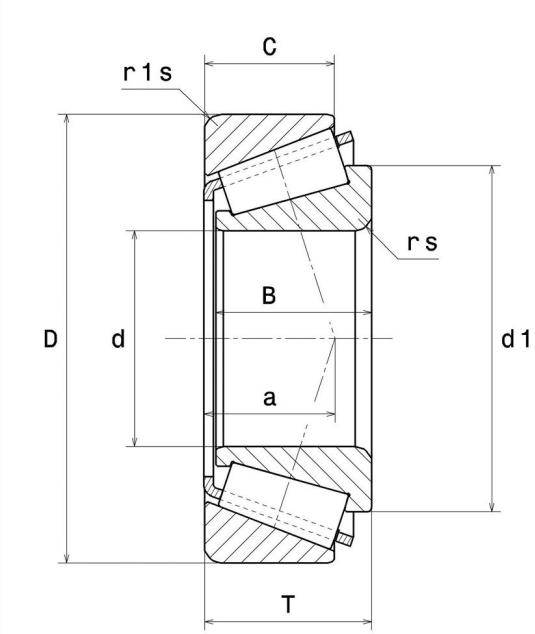
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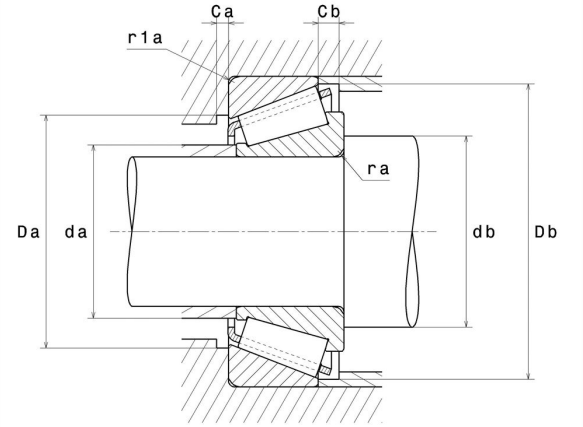
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	85 mm
D	140 mm
B	41 mm
C	32 mm
T	41 mm
a	33 mm
rs min	2.5 mm
r1s min	2 mm
e	0.41
Y2	1.48
Y0	0.81
Mass	2.44 kg
ISO 355 reference	T3DE085
Brand	NTN

Product performance

Dynamic load, C	211 kN
Rating life coefficient, A2	1
Static load, C0	330 kN
Nlim (oil)	3,400 Tr/min
Nlim (grease)	2,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.44 Hz
Characteristic outer ring frequency, BPF0	10.2 Hz
Characteristic inner ring frequency, BPFI	12.8 Hz

Abutment dimensions

da max	97 mm
db min	95 mm
Da min	118 mm
Da max	130 mm
Db min	135.5 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