Technical data

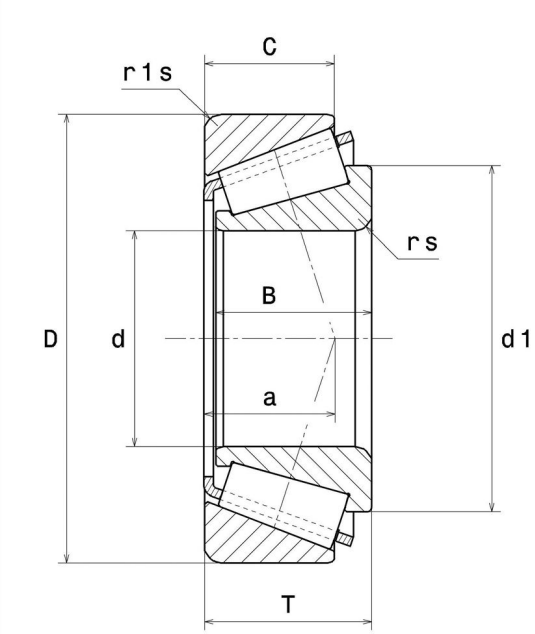
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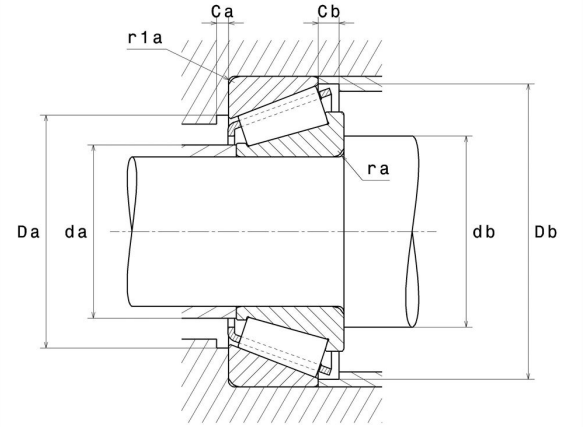
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	85 mm
D	120 mm
B	23 mm
C	18 mm
T	23 mm
d1	102.5 mm
a	21 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.33
Y2	1.83
Y0	1.01
Mass	0.77 kg
ISO 355 reference	T2BC085
Brand	NTN

Product performance

Dynamic load, C	94 kN
Rating life coefficient, A2	1
Static load, C0	157 kN
Fatigue limit load, Cu	19 kN
Nlim (oil)	3,800 Tr/min
Nlim (grease)	2,800 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	12.27 Hz
Characteristic outer ring frequency, BPF0	14.27 Hz
Characteristic inner ring frequency, BPFI	16.73 Hz

Abutment dimensions

da max	92 mm
db min	93.5 mm
Da min	111 mm
Da max	111.5 mm
Db min	115 mm
Ca min	4 mm
Cb min	5 mm
ra max	1.5 mm
r1a max	1.5 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