Technical data

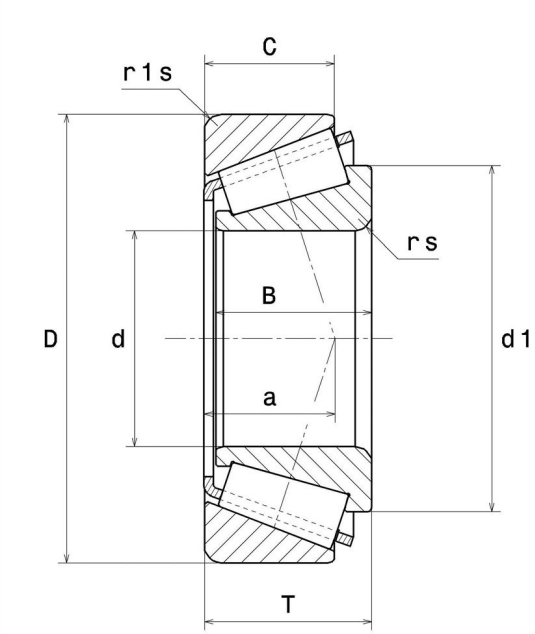
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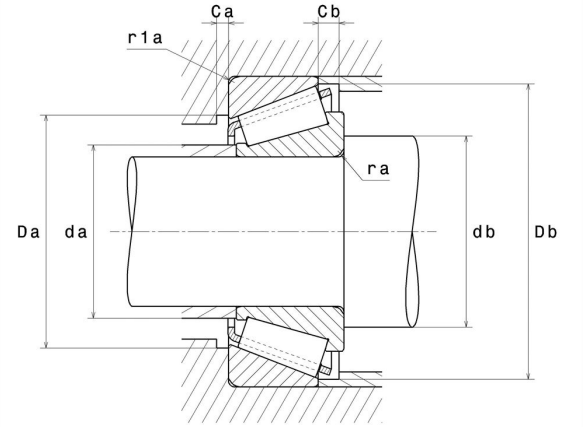
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	85 mm
D	150 mm
B	49 mm
C	37 mm
T	49 mm
d1	118 mm
a	37.5 mm
rs min	2.5 mm
r1s min	2 mm
e	0.42
Y2	1.43
Y0	0.79
Mass	3.58 kg
ISO 355 reference	T3EE085
Brand	NTN

Product performance

Dynamic load, C	284 kN
Rating life coefficient, A2	1
Static load, C0	420 kN
Fatigue limit load, Cu	48.8 kN
Nlim (oil)	3,200 Tr/min
Nlim (grease)	2,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.95 Hz
Characteristic outer ring frequency, BPF0	8.64 Hz
Characteristic inner ring frequency, BPFI	11.36 Hz

Abutment dimensions

da max	95 mm
db min	97 mm
Da min	128 mm
Da max	140 mm
Db min	144 mm
Ca min	7 mm
Cb min	12 mm
ra max	2 mm
r1a max	2 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