Technical data

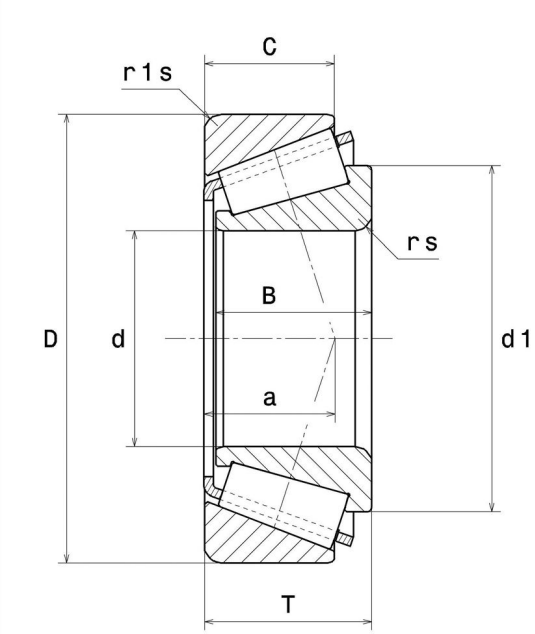
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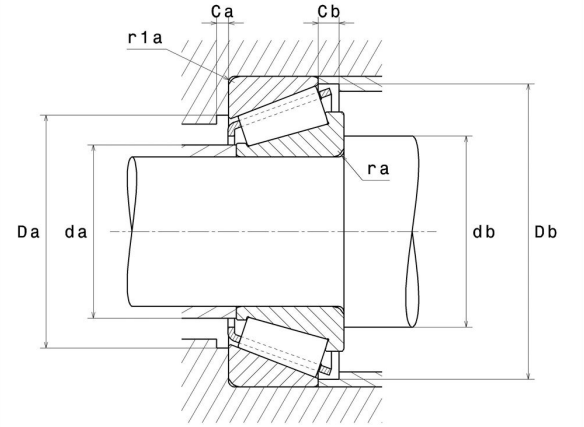
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	80 mm
D	140 mm
B	46 mm
C	35 mm
T	46 mm
d1	110.5 mm
a	35 mm
rs min	2.5 mm
r1s min	2 mm
e	0.43
Y2	1.41
Y0	0.78
Mass	2.92 kg
ISO 355 reference	T3EE080
Brand	NTN

Product performance

Dynamic load, C	250 kN
Rating life coefficient, A2	1
Static load, C0	365 kN
Fatigue limit load, Cu	43.3 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	0.43 Hz
Characteristic rolling element frequency, BSF	6.97 Hz
Characteristic outer ring frequency, BPF0	8.64 Hz
Characteristic inner ring frequency, BPFI	11.36 Hz

Abutment dimensions

da max	89 mm
db min	92 mm
Da min	119 mm
Da max	130 mm
Db min	135 mm
Ca min	7 mm
Cb min	11 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