Technical data

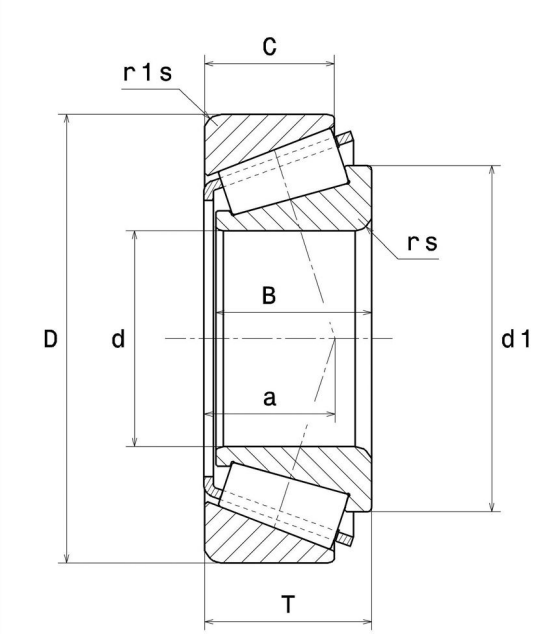
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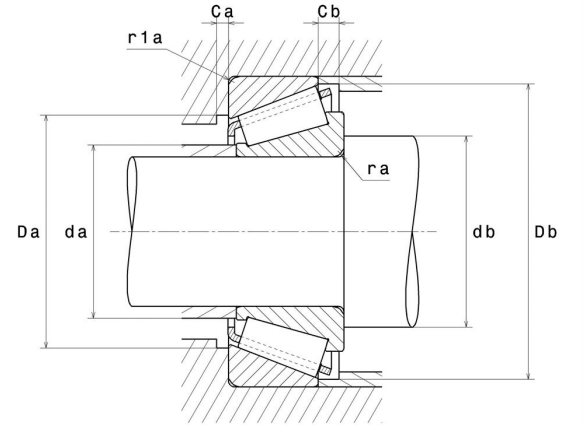
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	80 mm
D	125 mm
B	36 mm
C	29.5 mm
T	36 mm
d1	102.5 mm
a	25 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.28
Y2	2.16
Y0	1.19
Mass	1.6 kg
ISO 355 reference	T2CE080
Brand	NTN

Product performance

Dynamic load, C	173 kN
Rating life coefficient, A2	1
Static load, C0	284 kN
Fatigue limit load, Cu	34.4 kN
Nlim (oil)	3,700 Tr/min
Nlim (grease)	2,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.36 Hz
Characteristic outer ring frequency, BPF0	11.65 Hz
Characteristic inner ring frequency, BPFI	14.35 Hz

Abutment dimensions

da max	89 mm
db min	88.5 mm
Da min	112 mm
Da max	116.5 mm
Db min	119 mm
Ca min	6 mm
Cb min	6.5 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