Technical data

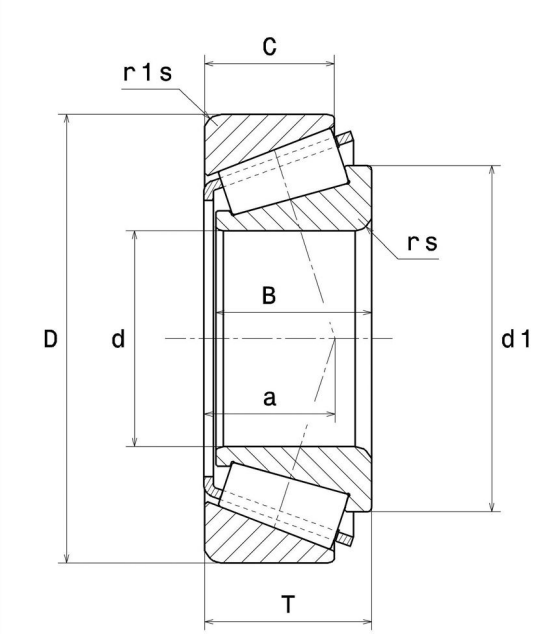
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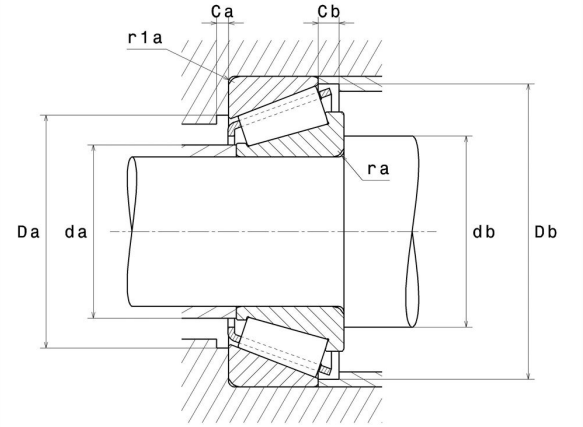
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	80 mm
D	130 mm
B	37 mm
C	29 mm
T	37 mm
a	30.5 mm
rs min	2 mm
r1s min	1.5 mm
e	0.42
Y2	1.44
Y0	0.79
Mass	1.87 kg
ISO 355 reference	T3DE080
Brand	NTN

Product performance

Dynamic load, C	179 kN
Rating life coefficient, A2	1
Static load, C0	276 kN
Nlim (oil)	3,600 Tr/min
Nlim (grease)	2,700 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	10.65 Hz
Characteristic inner ring frequency, BPFI	13.35 Hz

Abutment dimensions

da max	90 mm
db min	88.5 mm
Da min	110.5 mm
Da max	121.5 mm
Db min	126 mm
ra max	2 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