Technical data

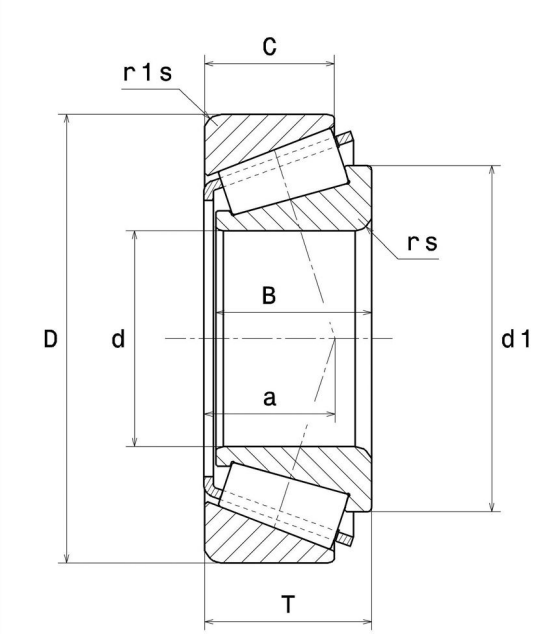
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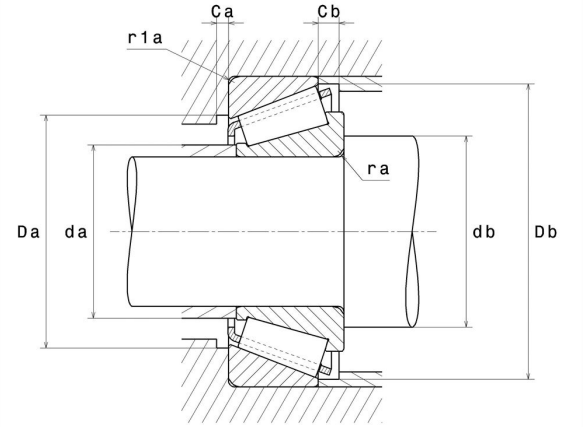
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	90 mm
D	150 mm
B	45 mm
C	35 mm
T	35 mm
a	35.5 mm
rs min	2.5 mm
r1s min	2 mm
e	0.4
Y2	1.51
Y0	0.83
Mass	3.11 kg
ISO 355 reference	T3DE080
Brand	NTN

Product performance

Dynamic load, C	253 kN
Rating life coefficient, A2	1
Static load, C0	400 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	0.44 Hz
Characteristic rolling element frequency, BSF	8.22 Hz
Characteristic outer ring frequency, BPF0	10.17 Hz
Characteristic inner ring frequency, BPFI	12.83 Hz

Abutment dimensions

da max	102 mm
db min	101 mm
Da min	127.5 mm
Da max	140 mm
Db min	145.5 mm
ra max	2 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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