Technical data

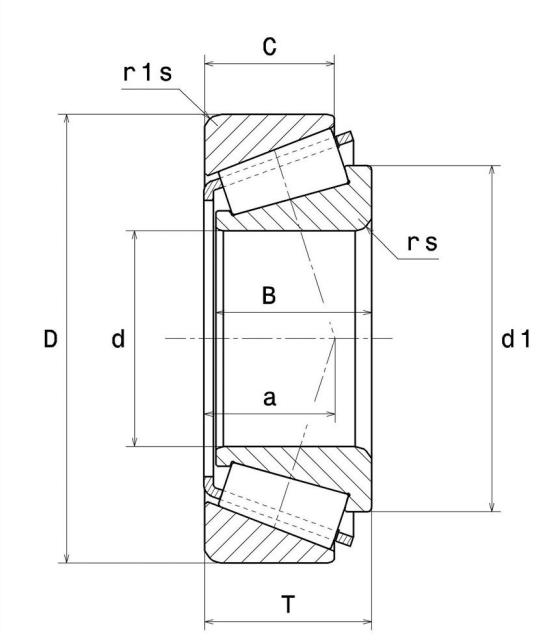
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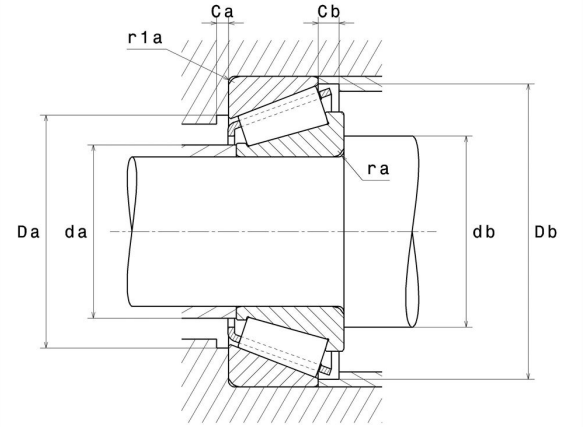
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	55 mm
D	100 mm
B	35 mm
C	27 mm
T	35 mm
d1	78 mm
a	25.5 mm
rs min	2 mm
r1s min	1.5 mm
e	0.4
Y2	1.5
Y0	0.83
Mass	1.15 kg
ISO 355 reference	T3DE055
Brand	NTN

Product performance

Dynamic load, C	138 kN
Rating life coefficient, A2	1.4
Static load, C0	188 kN
Fatigue limit load, Cu	22.9 kN
Nlim (oil)	4,900 Tr/min
Nlim (grease)	3,600 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	6.6 Hz
Characteristic outer ring frequency, BPF0	8.14 Hz
Characteristic inner ring frequency, BPFI	10.86 Hz

Abutment dimensions

da max	62 mm
db min	65 mm
Da min	85 mm
Da max	91.5 mm
Db min	96 mm
Ca min	6 mm
Cb min	8 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