Technical data

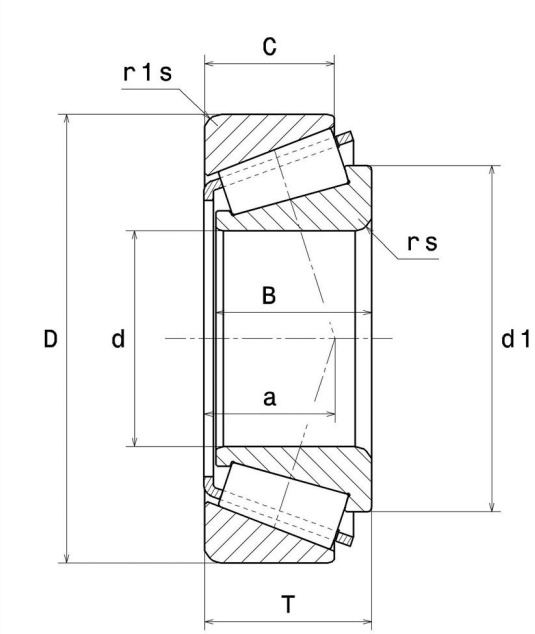
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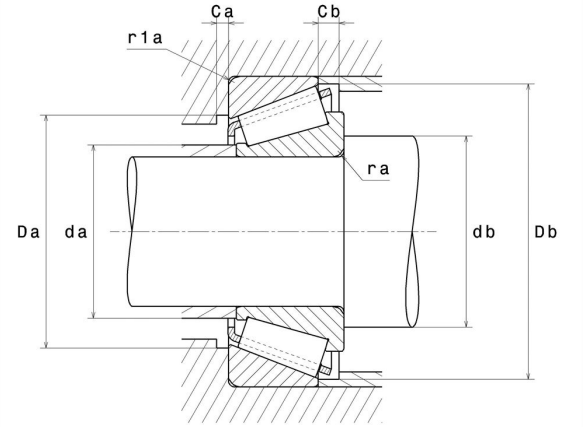
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	100 mm
D	215 mm
B	47 mm
C	39 mm
T	51.5 mm
d1	151 mm
a	41.5 mm
rs min	4 mm
r1s min	3 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	8.56 kg
ISO 355 reference	T2GB100
Brand	NTN

Product performance

Dynamic load, C	410 kN
Rating life coefficient, A2	1
Static load, C0	500 kN
Fatigue limit load, Cu	53 kN
Nlim (oil)	2,400 Tr/min
Nlim (grease)	1,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.16 Hz
Characteristic inner ring frequency, BPFI	8.84 Hz

Abutment dimensions

da max	127 mm
db min	118 mm
Da min	184 mm
Da max	201 mm
Db min	200 mm
Ca min	5 mm
Cb min	12.5 mm
ra max	3 mm
r1a max	2.5 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