Technical data

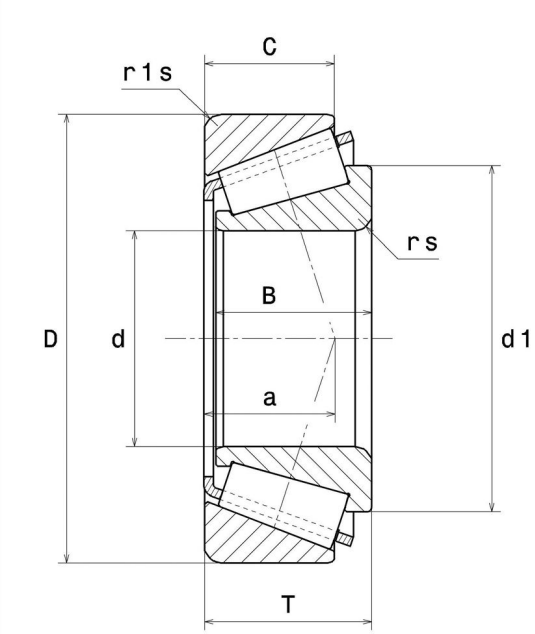
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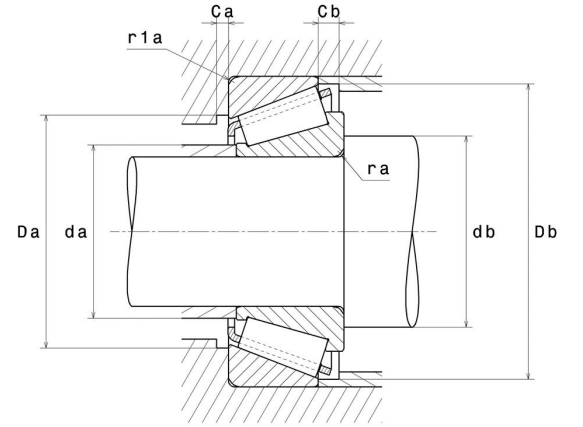
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	100 mm
D	215 mm
B	51 mm
C	35 mm
T	56.5 mm
d1	160 mm
a	69 mm
rs min	4 mm
r1s min	3 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	8.67 kg
ISO 355 reference	T7GB100
Brand	NTN

Product performance

Dynamic load, C	355 kN
Rating life coefficient, A2	1
Static load, C0	435 kN
Fatigue limit load, Cu	46.3 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	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.34 Hz
Characteristic inner ring frequency, BPFI	8.66 Hz

Abutment dimensions

da max	121 mm
db min	118 mm
Da min	168 mm
Da max	201 mm
Db min	202 mm
Ca min	7 mm
Cb min	21.5 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