Technical data

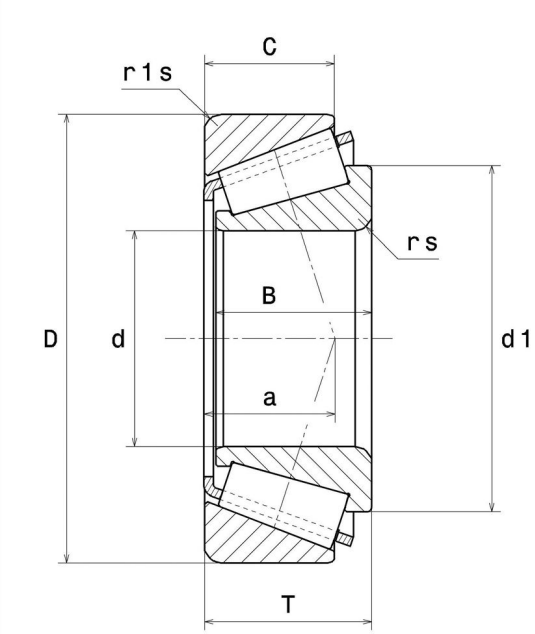
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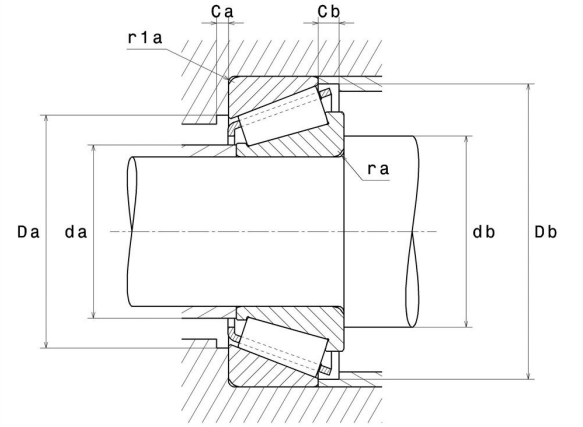
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	170 mm
D	310 mm
B	52 mm
C	43 mm
T	57 mm
d1	235 mm
a	60.5 mm
rs min	5 mm
r1s min	4 mm
e	0.44
Y2	1.38
Y0	0.76
Mass	17 kg
ISO 355 reference	T4GB170
Brand	NTN

Product performance

Dynamic load, C	610 kN
Rating life coefficient, A2	1
Static load, C0	845 kN
Fatigue limit load, Cu	79.1 kN
Nlim (oil)	1,500 Tr/min
Nlim (grease)	1,100 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	6.89 Hz
Characteristic outer ring frequency, BPF0	8.63 Hz
Characteristic inner ring frequency, BPFI	11.37 Hz

Abutment dimensions

da max	203 mm
db min	192 mm
Da min	266 mm
Da max	292 mm
Db min	290.5 mm
Ca min	8 mm
Cb min	14 mm
ra max	4 mm
r1a max	3 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