Technical data

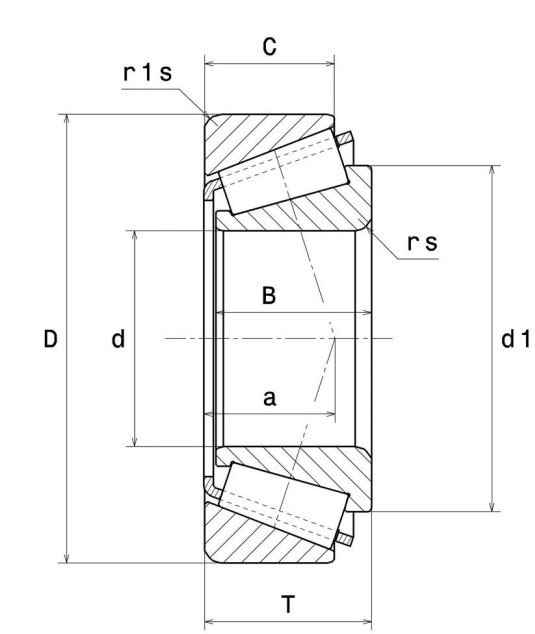
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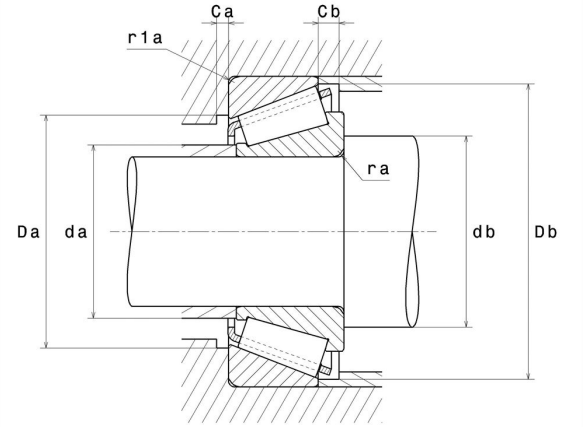
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	170 mm
D	260 mm
B	57 mm
C	43 mm
T	57 mm
d1	216.5 mm
a	56 mm
rs min	3 mm
r1s min	2.5 mm
e	0.44
Y2	1.35
Y0	0.74
Mass	10.5 kg
ISO 355 reference	T4EC170
Brand	NTN

Product performance

Dynamic load, C	500 kN
Rating life coefficient, A2	1
Static load, C0	895 kN
Fatigue limit load, Cu	86.7 kN
Nlim (oil)	1,700 Tr/min
Nlim (grease)	1,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.13 Hz
Characteristic outer ring frequency, BPF0	12.69 Hz
Characteristic inner ring frequency, BPFI	15.31 Hz

Abutment dimensions

da max	187 mm
db min	184 mm
Da min	230 mm
Da max	248 mm
Db min	249 mm
Ca min	10 mm
Cb min	14 mm
ra max	2.5 mm
r1a max	2 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