Technical data

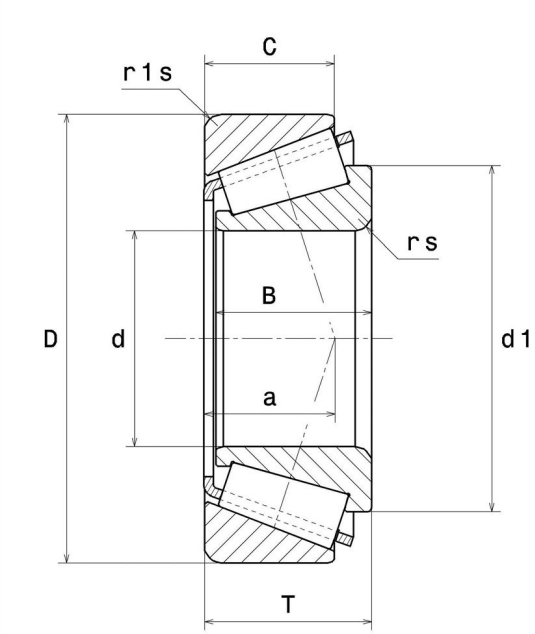
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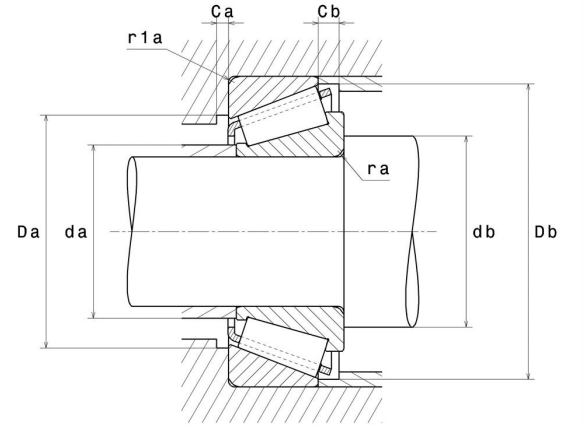
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	170 mm
D	230 mm
B	38 mm
C	30 mm
T	38 mm
d1	200.5 mm
a	42.5 mm
rs min	2.5 mm
r1s min	2 mm
e	0.38
Y2	1.57
Y0	0.86
Mass	4.4 kg
ISO 355 reference	T3DC170
Brand	NTN

Product performance

Dynamic load, C	286 kN
Rating life coefficient, A2	1
Static load, C0	560 kN
Fatigue limit load, Cu	55.5 kN
Nlim (oil)	1,800 Tr/min
Nlim (grease)	1,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	13.78 Hz
Characteristic outer ring frequency, BPF0	16.74 Hz
Characteristic inner ring frequency, BPFI	19.26 Hz

Abutment dimensions

da max	183 mm
db min	182 mm
Da min	213 mm
Da max	220 mm
Db min	222 mm
Ca min	7 mm
Cb min	8 mm
ra max	2 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