Technical data

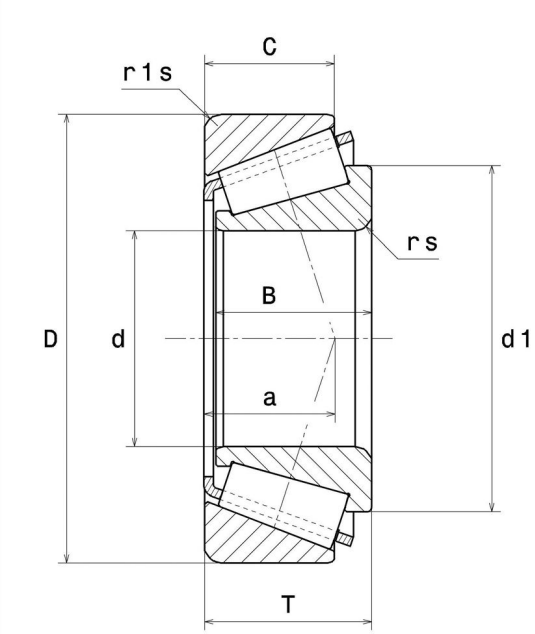
4T-33010

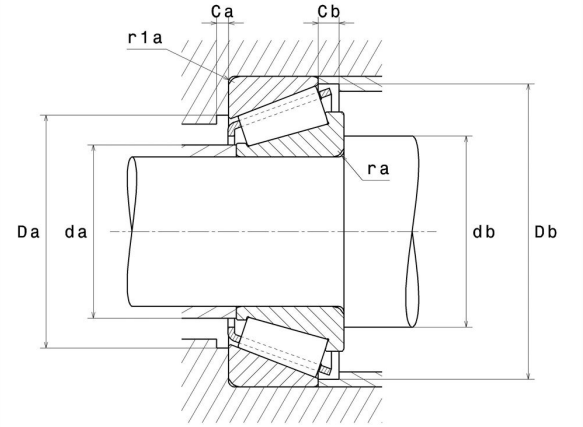
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	80 mm
B	24 mm
C	19 mm
T	24 mm
d1	65.5 mm
a	17.5 mm
rs min	1 mm
r1s min	1 mm
e	0.32
Y2	1.9
Y0	1.04
Mass	0.43 kg
ISO 355 reference	T2CE050
Brand	NTN

Product performance

Dynamic load, C	69.5 kN
Rating life coefficient, A2	1.4
Static load, C0	103 kN
Fatigue limit load, Cu	12.6 kN
Nlim (oil)	5,800 Tr/min
Nlim (grease)	4,400 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	9.06 Hz
Characteristic outer ring frequency, BPF0	10.72 Hz
Characteristic inner ring frequency, BPFI	13.28 Hz

Abutment dimensions

da max	56 mm
db min	55.5 mm
Da min	72 mm
Da max	74.5 mm
Db min	76 mm
Ca min	4 mm
Cb min	5 mm
ra max	1 mm
r1a max	1 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