Technical data

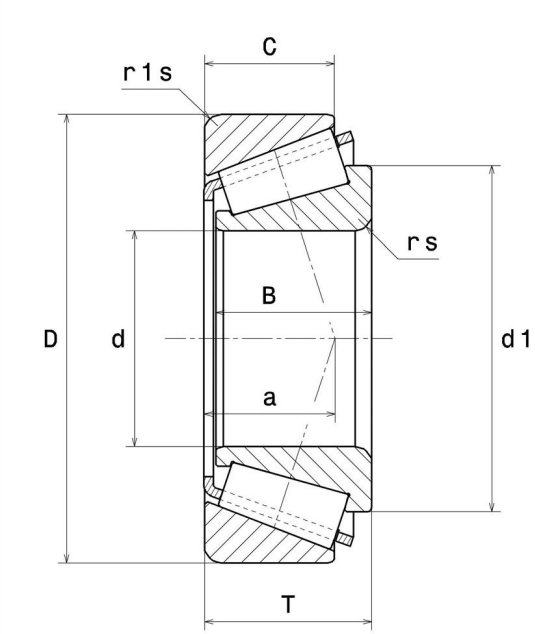
4T-33110

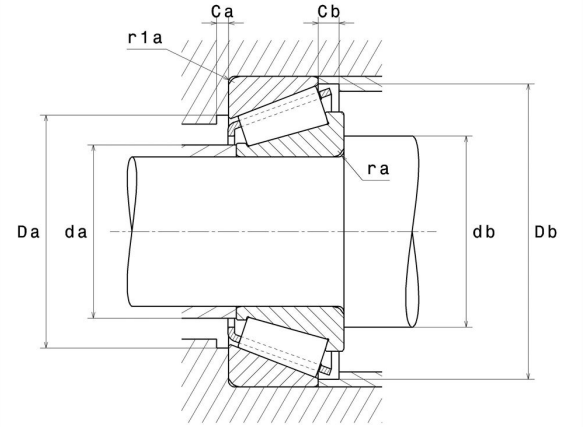
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	85 mm
B	26 mm
C	20 mm
T	26 mm
d1	68 mm
a	20.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.41
Y2	1.46
Y0	0.8
Mass	0.58 kg
ISO 355 reference	T3CE050
Brand	NTN

Product performance

Dynamic load, C	86.5 kN
Rating life coefficient, A2	1.4
Static load, C0	121 kN
Fatigue limit load, Cu	14.8 kN
Nlim (oil)	5,600 Tr/min
Nlim (grease)	4,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.8 Hz
Characteristic outer ring frequency, BPF0	9.66 Hz
Characteristic inner ring frequency, BPFI	12.34 Hz

Abutment dimensions

da max	56 mm
db min	58.5 mm
Da min	74 mm
Da max	76.5 mm
Db min	82 mm
Ca min	4 mm
Cb min	6 mm
ra max	1.5 mm
r1a max	1.5 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