Technical datasheet

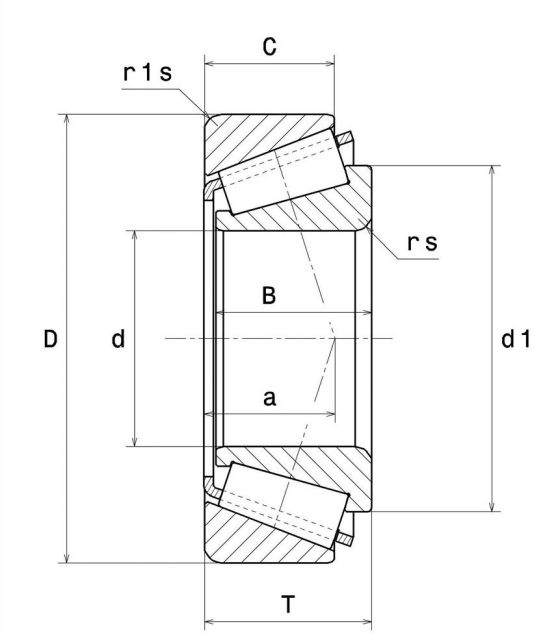
4T-T2ED050

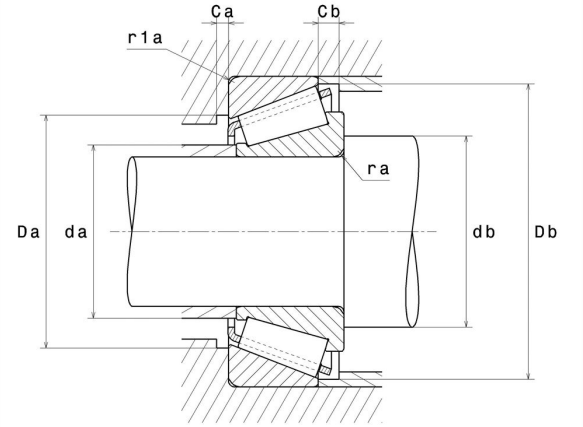
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	100 mm
B	25 mm
C	30 mm
T	36 mm
d1	73.5 mm
a	25.5 mm
rs min	2.5 mm
r1s min	2.5 mm
e	0.34
Y2	1.75
Y0	0.96
Mass	1.31 kg
ISO 355 reference	T2ED050
Brand	NTN

Product performance

Dynamic load, C	151 kN
Rating life coefficient, A2	1.4
Static load, C0	190 kN
Fatigue limit load, Cu	23.2 kN
Nlim (oil)	5,100 rpm
Nlim (grease)	3,800 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.51 Hz
Characteristic outer ring frequency, BPF0	6.63 Hz
Characteristic inner ring frequency, BPFI	9.37 Hz

Abutment dimensions

da max	59 mm
db min	62 mm
Da min	84 mm
Da max	88 mm
Db min	94 mm
Ca min	6 mm
Cb min	6 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