Technical data

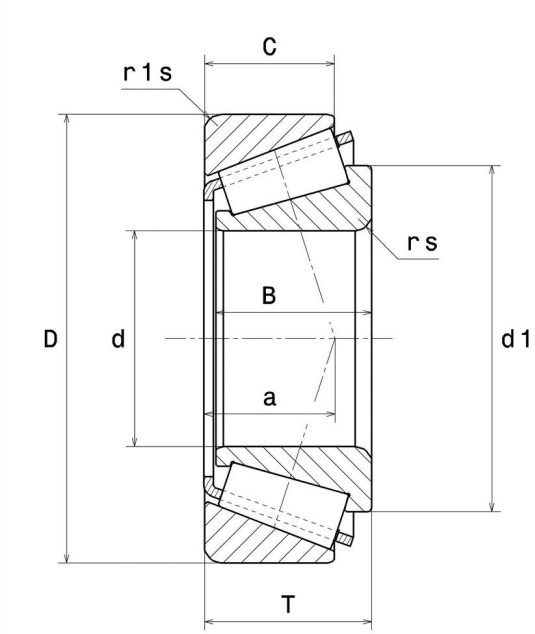
4T-30310D

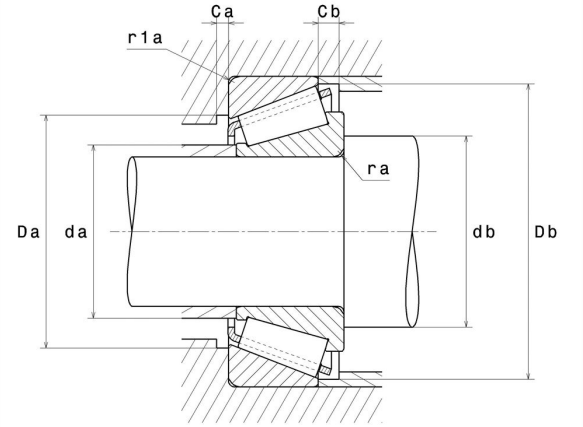
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	110 mm
B	27 mm
C	19 mm
T	29.25 mm
d1	81.5 mm
a	35 mm
rs min	2.5 mm
r1s min	2 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	1.25 kg
ISO 355 reference	T7FB050
Brand	NTN

Product performance

Dynamic load, C	113 kN
Rating life coefficient, A2	1.4
Static load, C0	130 kN
Fatigue limit load, Cu	15.9 kN
Nlim (oil)	4,200 Tr/min
Nlim (grease)	3,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.76 Hz
Characteristic inner ring frequency, BPFI	9.24 Hz

Abutment dimensions

da max	62 mm
db min	62 mm
Da min	87 mm
Da max	100 mm
Db min	105 mm
Ca min	3 mm
Cb min	10 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