Technical datasheet

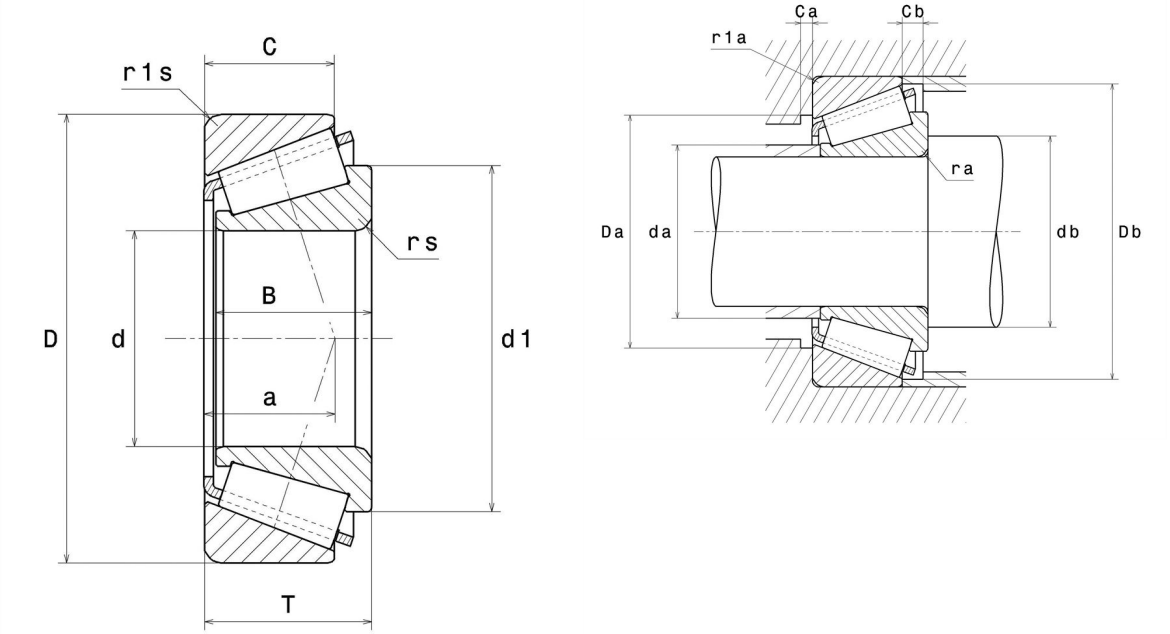
4T-9378/9321

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	76.2 mm
D	171.45 mm
B	50.8 mm
C	31.75 mm
T	49.21 mm
a	53.6 mm
rs min	3.56 mm
r1s min	3.3 mm
e	0.76
Y2	0.79
Y0	0.43
Mass	5.35 kg
Brand	NTN

Product performance

Dynamic load, C	265 kN
Rating life coefficient, A2	1.4
Static load, C0	325 kN
Nlim (oil)	2,700 rpm
Nlim (grease)	2,200 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.61 Hz
Characteristic outer ring frequency, BPF0	6.34 Hz
Characteristic inner ring frequency, BPFI	8.66 Hz

Abutment dimensions

ra max	3.5 mm
r1a max	3.3 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