Technical datasheet

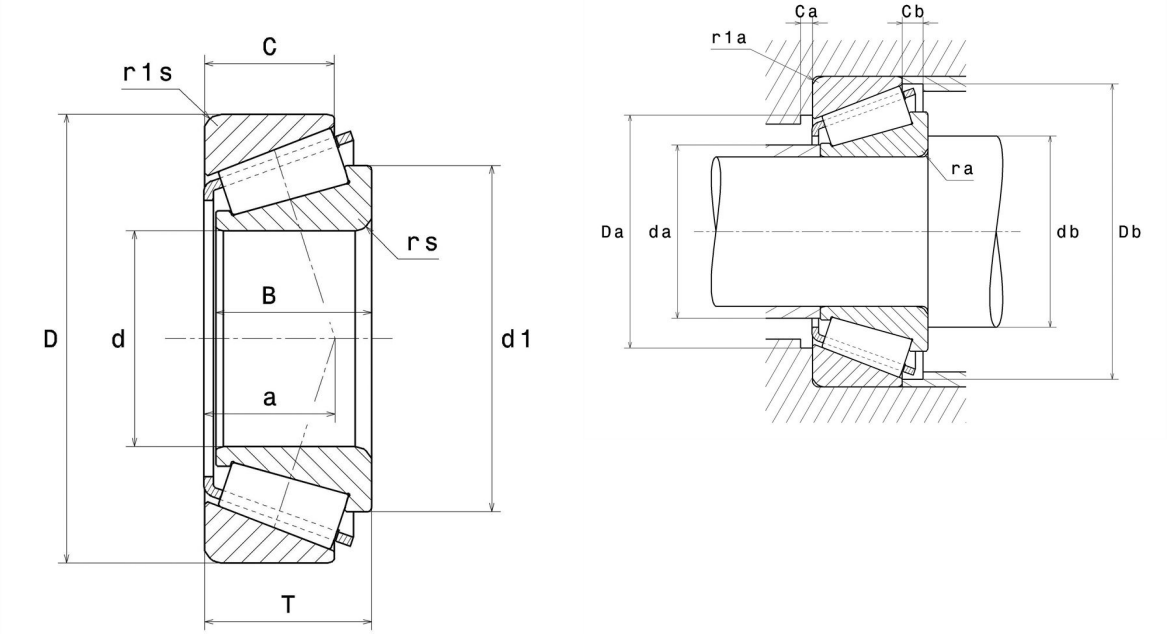
4T-48684/48620

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	142.88 mm
D	200.02 mm
B	39.69 mm
C	34.13 mm
T	41.28 mm
d1	172.5 mm
a	38.18 mm
e	0.34
Y2	1.78
Y0	0.98
Mass	3.85 kg
Brand	NTN

Product performance

Dynamic load, C	239 kN
Rating life coefficient, A2	1.4
Static load, C0	490 kN
Fatigue limit load, Cu	50.8 kN
Nlim (oil)	2,100 rpm
Nlim (grease)	1,600 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.63 Hz
Characteristic outer ring frequency, BPF0	17.27 Hz
Characteristic inner ring frequency, BPFI	19.73 Hz

Abutment dimensions

ra max	8 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