Technical data

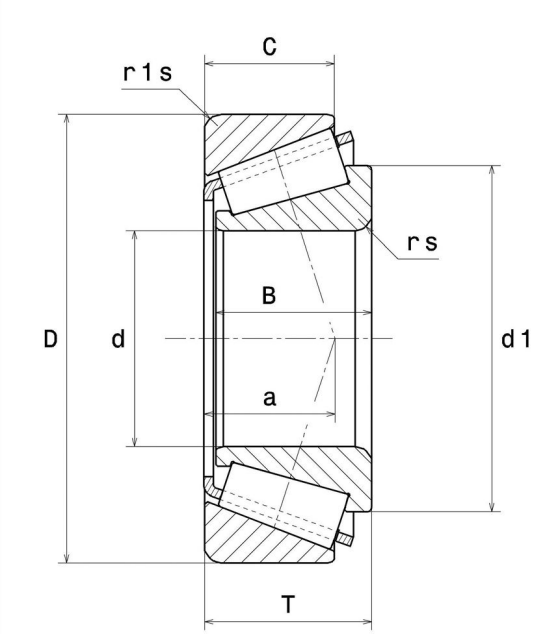
4T-LM522549/LM522510

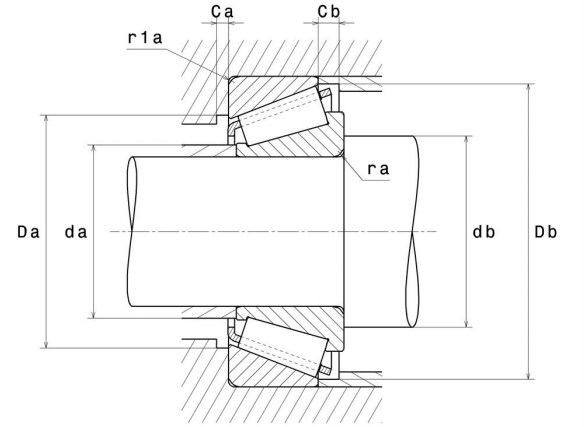
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	109.99 mm
D	159.99 mm
B	34.92 mm
C	26.99 mm
T	34.92 mm
d1	137 mm
a	33.52 mm
e	0.4
Y2	1.49
Y0	0.82
Mass	2.27 kg
Brand	NTN

Product performance

Dynamic load, C	167 kN
Rating life coefficient, A2	1.4
Static load, C0	320 kN
Fatigue limit load, Cu	35.7 kN
Nlim (oil)	2,800 Tr/min
Nlim (grease)	2,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	13.57 Hz
Characteristic outer ring frequency, BPF0	15.8 Hz
Characteristic inner ring frequency, BPFI	18.2 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 ≤ 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