Technical datasheet

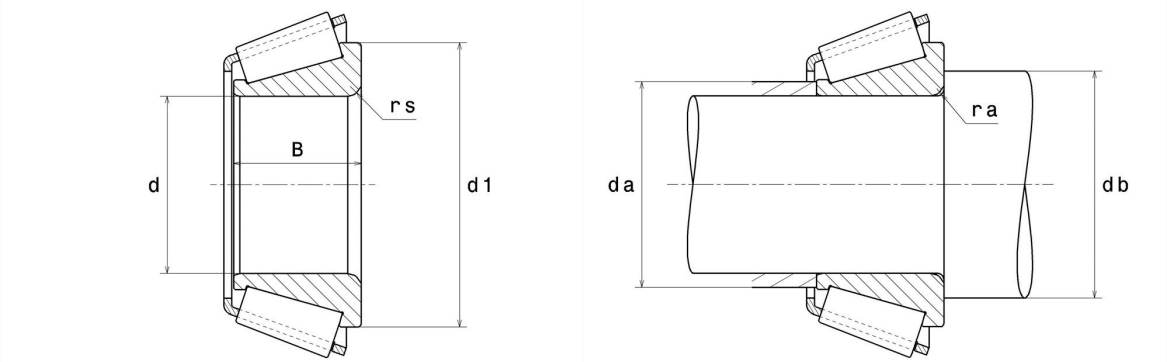
4T-37431

Single row tapered roller bearings

Mounted cone, sheet metal cage



Visual(s)



Product definition

d	109.54 mm
B	21.44 mm
d1	133 mm
e	0.61
Y2	0.99
Y0	0.54
Brand	NTN

Product performance

Dynamic load, C	102 kN
Rating life coefficient, A2	1.4
Static load, C0	166 kN
Fatigue limit load, Cu	18.6 kN
Nlim (oil)	2,800 rpm
Nlim (grease)	2,100 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	12.73 Hz
Characteristic outer ring frequency, BPF0	14.84 Hz
Characteristic inner ring frequency, BPFI	17.16 Hz

Abutment dimensions

ra max	3.5 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