Technical datasheet

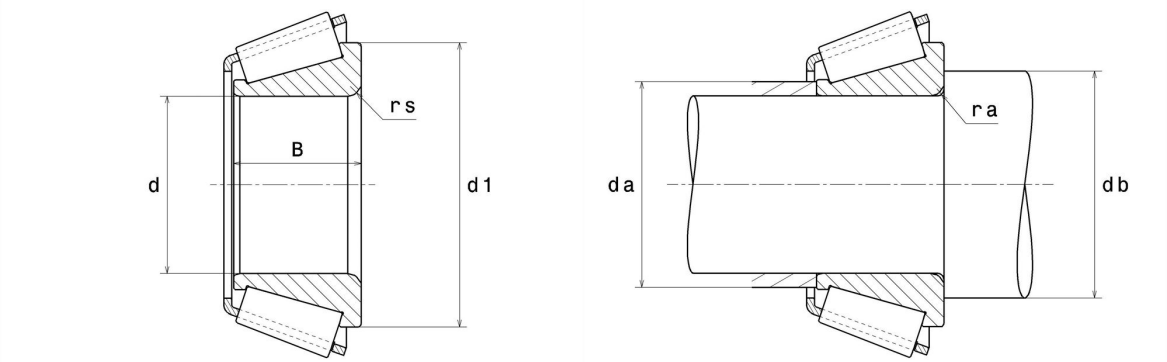
4T-42350

Single row tapered roller bearings



Mounted cone, sheet metal cage

Visual(s)



Product definition

d	88.9 mm
B	28.97 mm
d1	122.4 mm
e	0.49
Y2	1.22
Y0	0.67
Brand	NTN

Product performance

Dynamic load, C	138 kN
Rating life coefficient, A2	1.4
Static load, C0	215 kN
Fatigue limit load, Cu	24.7 kN
Nlim (oil)	3,100 rpm
Nlim (grease)	2,300 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.26 Hz
Characteristic outer ring frequency, BPF0	11.81 Hz
Characteristic inner ring frequency, BPFI	14.19 Hz

Abutment dimensions

ra max	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