Technical datasheet

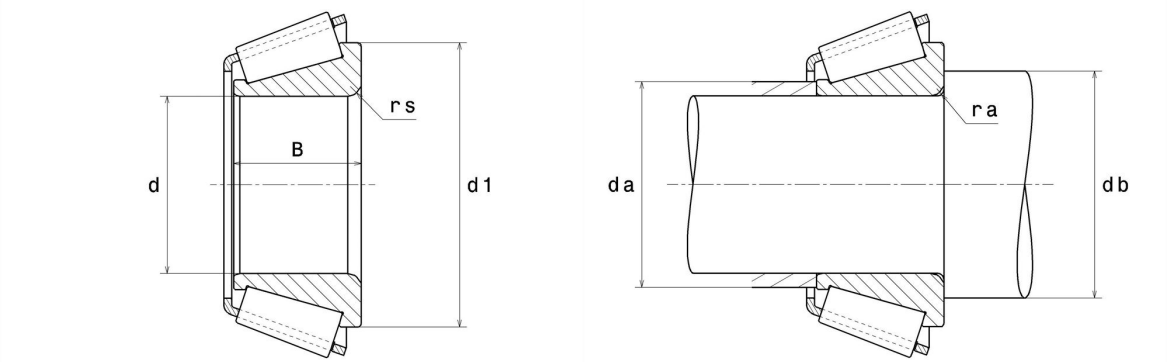
4T-782

Single row tapered roller bearings

Mounted cone, sheet metal cage



Visual(s)



Product definition

d	104.78 mm
B	48.01 mm
d1	139 mm
e	0.39
Y2	1.56
Y0	0.86
Brand	NTN

Product performance

Dynamic load, C	285 kN
Rating life coefficient, A2	1.4
Static load, C0	430 kN
Fatigue limit load, Cu	47.5 kN
Nlim (oil)	2,700 rpm
Nlim (grease)	2,000 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.93 Hz
Characteristic outer ring frequency, BPF0	9.24 Hz
Characteristic inner ring frequency, BPFI	11.76 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