Technical datasheet

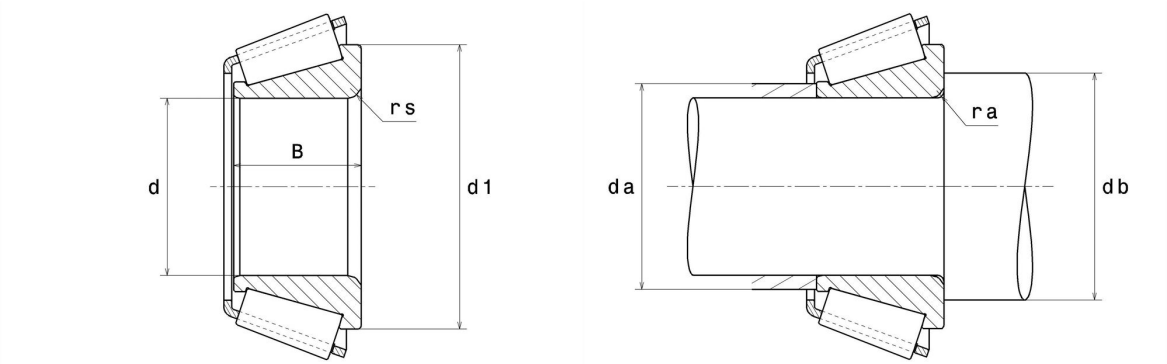
4T-896

Single row tapered roller bearings

Mounted cone, sheet metal cage



Visual(s)



Product definition

d	136.52 mm
B	57.15 mm
d1	182 mm
e	0.42
Y2	1.43
Y0	0.78
Brand	NTN

Product performance

Dynamic load, C	445 kN
Rating life coefficient, A2	1.4
Static load, C0	735 kN
Fatigue limit load, Cu	74.9 kN
Nlim (oil)	2,000 rpm
Nlim (grease)	1,500 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	8.72 Hz
Characteristic outer ring frequency, BPF0	10.69 Hz
Characteristic inner ring frequency, BPFI	13.31 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