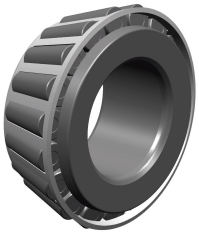
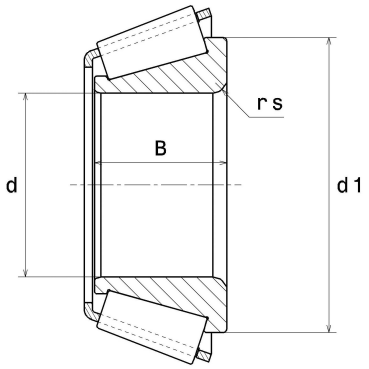
PDF technical sheet
4T28990

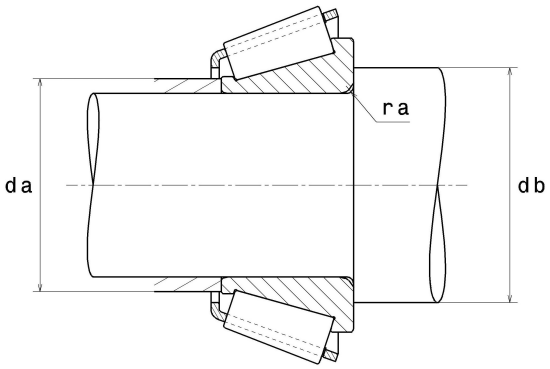


Single row tapered roller bearings
Mounted cone, sheet metal cage

Product definition	
d	2.4400 "
B	0.9688 "
d1	3.2283 "
e	0.43
Y2	1.41
Y0	0.78
Mass	1.74 oz
Brand	NTN



Product performance	
Dynamic load, C	90.50 kN
Rating life coefficient, A2	1.4
Static load, C0	134 kN
Fatigue limit load, Cu	16.30 kN
Nlim (oil)	4,700 RPM
Nlim (grease)	3,500 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.20 Hz
Characteristic outer ring frequency, BPF0	10.76 Hz
Characteristic inner ring frequency, BPFI	13.24 Hz



Abutment dimensions	
ra max	0.0787 "

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