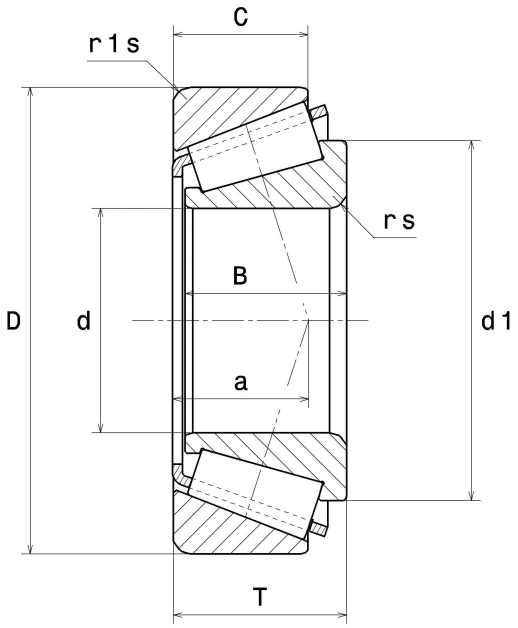
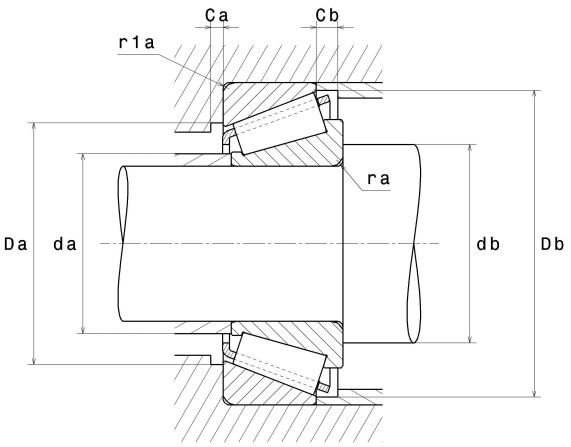
PDF technical sheet
ET36990/36920

Single row tapered roller bearings
Tapered roller bearing, pressed steel cage

Product definition	
d	7.0000 "
D	8.9375 "
B	1.1875 "
C	0.9063 "
T	1.1875 "
d1	8.0709 "
a	1.6914 "
e	0.44
Y2	1.36
Y0	0.75
Mass	10.30 oz
Brand	NTN



Product performance	
Dynamic load, C	181 kN
Rating life coefficient, A2	1.9
Static load, C0	415 kN
Fatigue limit load, Cu	40.90 kN
Nlim (oil)	1,800 RPM
Nlim (grease)	1,300 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.48 Hz
Characteristic rolling element frequency, BSF	20.53 Hz
Characteristic outer ring frequency, BPF0	24.79 Hz
Characteristic inner ring frequency, BPFI	27.21 Hz



Abutment dimensions	
ra max	0.0591 "
r1a max	0.0591 "

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S.A. au capital de 123 599 542 € - RCS ANNECY B 325 821 072 – Id. Fiscale : FR 48 325 821 072 – SIRET 325 821 072 00015 –
Code APE 2815 Z – Code NACE 28.15

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