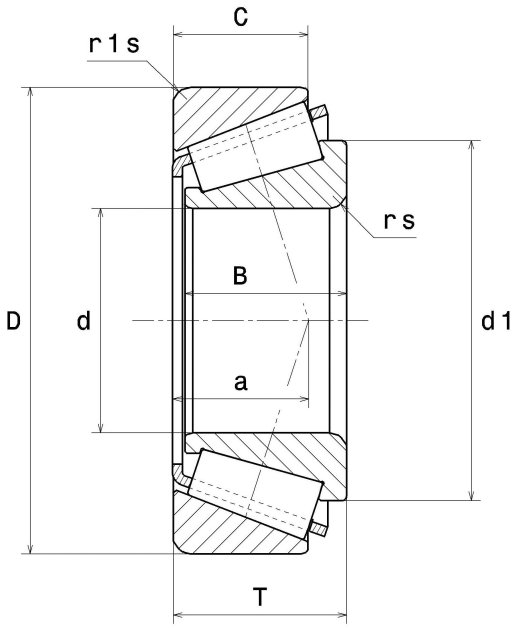
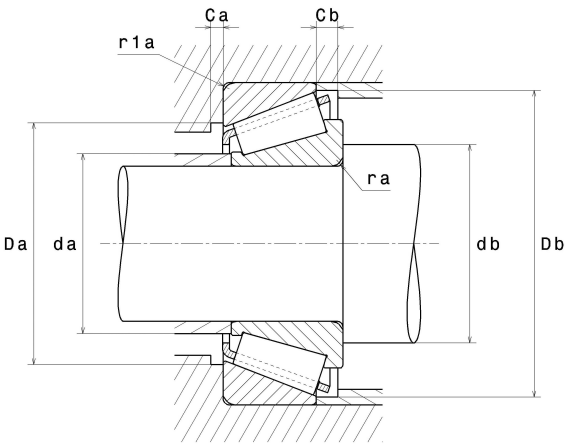
PDF technical sheet
938/932

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

Product definition	
d	4.5000 "
D	8.3750 "
B	2.6250 "
C	2.1250 "
T	2.6250 "
d1	6.1220 "
a	1.8494 "
e	0.33
Y2	1.84
Y0	1.01
Mass	35.63 oz
Brand	NTN



Product performance	
Dynamic load, C	475 kN
Rating life coefficient, A2	1
Static load, C0	695 kN
Fatigue limit load, Cu	73.90 kN
Nlim (oil)	2,300 RPM
Nlim (grease)	1,800 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.57 Hz
Characteristic outer ring frequency, BPF0	7.69 Hz
Characteristic inner ring frequency, BPFI	10.31 Hz



Abutment dimensions	
ra max	0.2756 "
r1a max	0.1299 "

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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