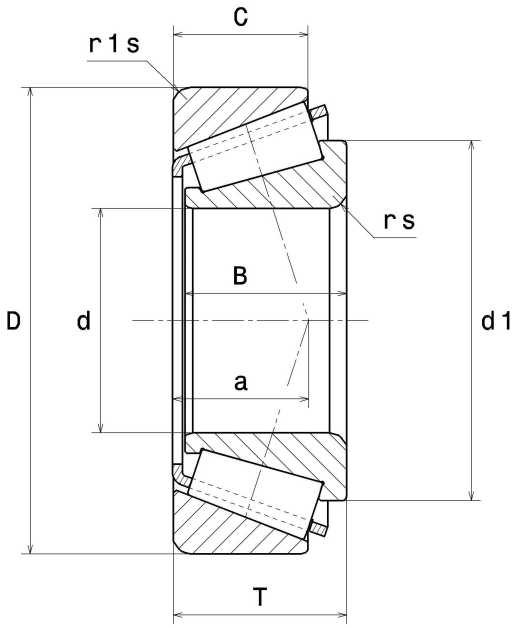
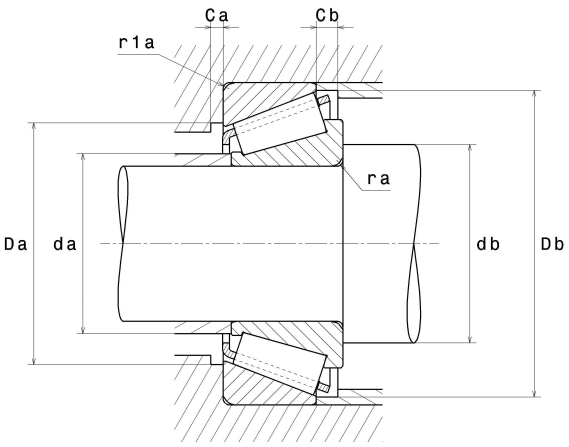
PDF technical sheet
ET25590/25519

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

Product definition	
d	1.7960 "
D	3.2500 "
B	1.0000 "
C	0.7500 "
T	0.9375 "
d1	2.4803 "
a	0.6934 "
e	0.33
Y2	1.79
Y0	0.99
Mass	1.88 oz
Brand	NTN



Product performance	
Dynamic load, C	76 kN
Rating life coefficient, A2	1.9
Static load, C0	98 kN
Fatigue limit load, Cu	12 kN
Nlim (oil)	6,000 RPM
Nlim (grease)	4,500 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	7.08 Hz
Characteristic outer ring frequency, BPF0	7.78 Hz
Characteristic inner ring frequency, BPFI	10.22 Hz



Abutment dimensions	
ra max	0.1378 "
r1a max	0.0787 "

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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