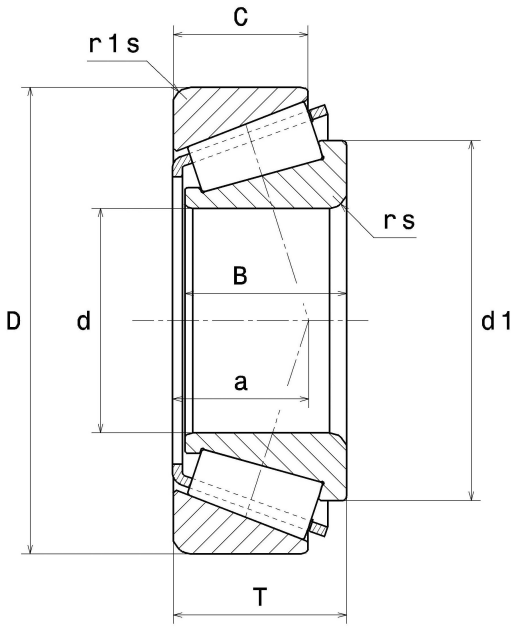
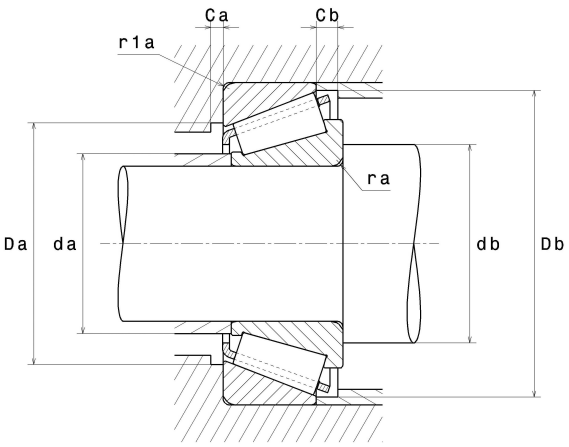
PDF technical sheet
30314UP5

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

Product definition	
d	2.7559 "
D	5.9055 "
B	1.3780 "
C	1.1811 "
T	1.4961 "
d1	4.2126 "
a	1.1811 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.35
Y2	1.74
Y0	0.96
Mass	10.79 oz
ISO 355 reference	T2GB070
Brand	NTN



Product performance	
Dynamic load, C	230 kN
Rating life coefficient, A2	1
Static load, C0	272 kN
Fatigue limit load, Cu	32.10 kN
Nlim (oil)	3,500 RPM
Nlim (grease)	2,600 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPFI	9.43 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da max	3.5039 "
db min	3.3071 "
Da min	5.1181 "
Da max	5.4331 "
Db min	5.5118 "
Ca min	0.1575 "
Cb min	0.3150 "
ra max	0.0984 "
r1a 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