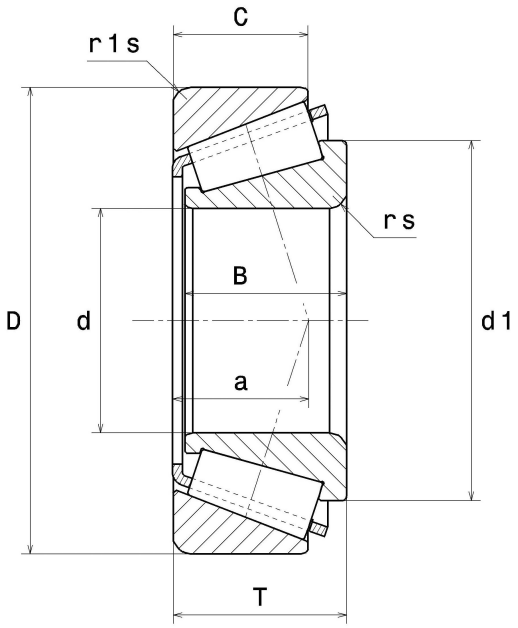
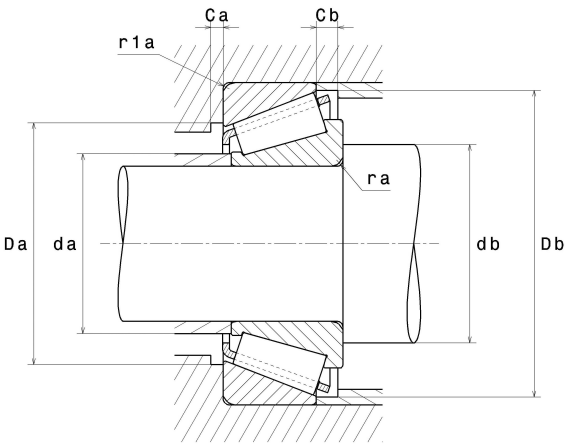
PDF technical sheet
31328XU

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

Product definition	
d	5.5118 "
D	11.8110 "
B	2.7559 "
C	1.8504 "
T	3.0315 "
d1	8.7598 "
a	3.7008 "
rs min	0.1969 "
r1s min	0.1575 "
e	0.83
Y2	0.73
Y0	0.4
Mass	81.13 oz
ISO 355 reference	T7GB140
Brand	NTN



Product performance	
Dynamic load, C	685 kN
Rating life coefficient, A2	1
Static load, C0	905 kN
Fatigue limit load, Cu	87.20 kN
Nlim (oil)	1,700 RPM
Nlim (grease)	1,300 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.59 Hz
Characteristic outer ring frequency, BPF0	6.78 Hz
Characteristic inner ring frequency, BPFI	9.23 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da max	6.4961 "
db min	6.3780 "
Da min	9.2126 "
Da max	11.1024 "
Db min	11.0236 "
Ca min	0.3543 "
Cb min	1.1811 "
ra max	0.1575 "
r1a max	0.1181 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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