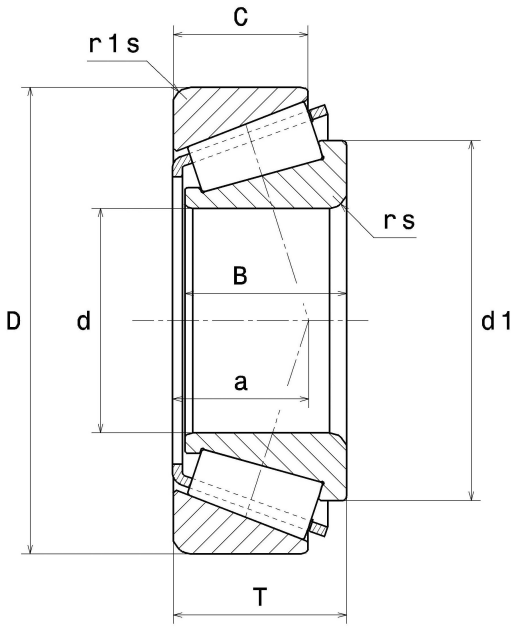
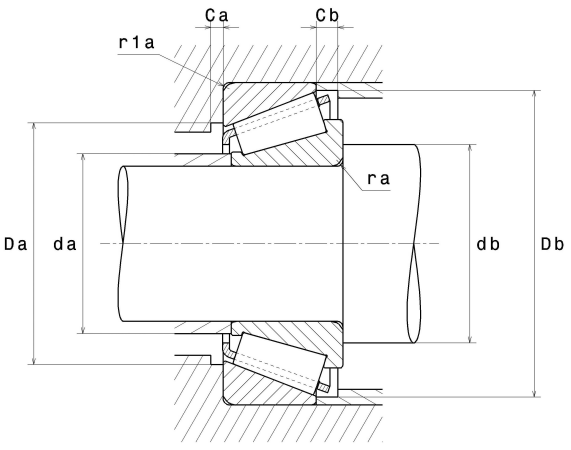
PDF technical sheet
32015XUST

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

Product definition	
d	2.9528 "
D	4.5276 "
B	0.9843 "
C	0.7480 "
T	0.9843 "
d1	3.7795 "
a	1.0039 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.46
Y2	1.31
Y0	0.72
Mass	3.21 oz
ISO 355 reference	T4CC075
Brand	NTN



Product performance	
Dynamic load, C	106 kN
Rating life coefficient, A2	1
Static load, C0	167 kN
Fatigue limit load, Cu	20.40 kN
Nlim (oil)	4,000 RPM
Nlim (grease)	3,000 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.14 Hz
Characteristic outer ring frequency, BPF0	12.69 Hz
Characteristic inner ring frequency, BPFI	15.31 Hz



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Abutment dimensions	
da max	3.2677 "
db min	3.2874 "
Da min	4.0551 "
Da max	4.1929 "
Db min	4.3307 "
Ca min	0.1969 "
Cb min	0.2362 "
ra max	0.0591 "
r1a max	0.0591 "

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