

PDF technical sheet 30324U



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

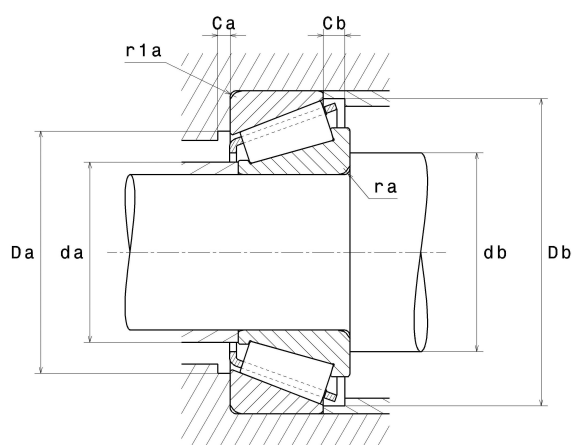
Product definition

d	4.7244 "
D	10.2362 "
B	2.1654 "
C	1.8110 "
T	2.3425 "
a	1.9291 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.35
Y2	1.74
Y0	0.96
Mass	50.09 oz
ISO 355 reference	T2GB120
Brand	NTN



Product performance

Dynamic load, C	560 kN
Rating life coefficient, A2	1
Static load, C0	695 kN
Nlim (oil)	2,000 RPM
Nlim (grease)	1,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	5.4331 "
db min	5.9843 "
Da max	9.6850 "
Db min	9.4094 "
ra max	0.1181 "
r1a max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table