Technical data

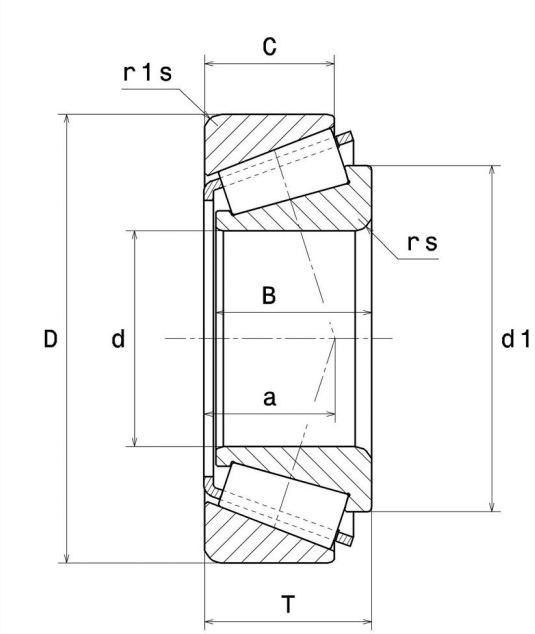
4T-30311D

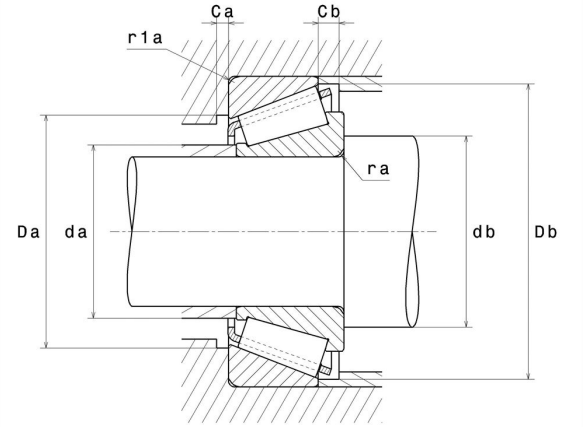
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	55 mm
D	120 mm
B	29 mm
C	21 mm
T	31.5 mm
d1	88.5 mm
a	38 mm
rs min	2.5 mm
r1s min	2 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	1.59 kg
ISO 355 reference	T7FB055
Brand	NTN

Product performance

Dynamic load, C	132 kN
Rating life coefficient, A2	1.4
Static load, C0	154 kN
Fatigue limit load, Cu	18.8 kN
Nlim (oil)	3,800 Tr/min
Nlim (grease)	2,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.76 Hz
Characteristic inner ring frequency, BPFI	9.24 Hz

Abutment dimensions

da max	68 mm
db min	67 mm
Da min	94 mm
Da max	110 mm
Db min	113 mm
Ca min	4 mm
Cb min	10.5 mm
ra max	2 mm
r1a max	2 mm

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