Technical data

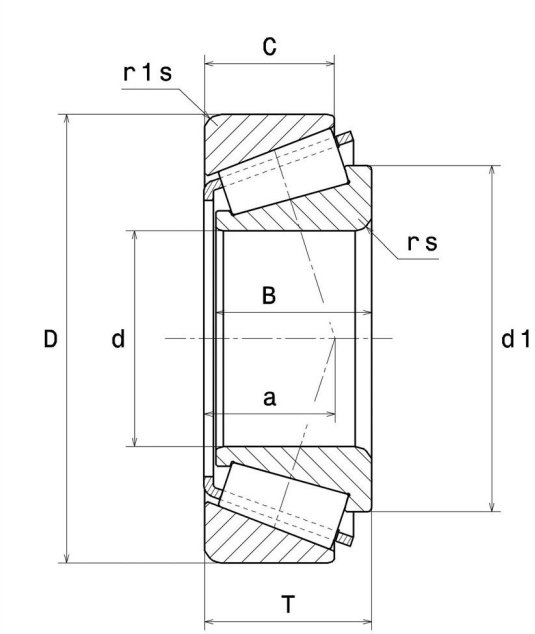
4T-30314D

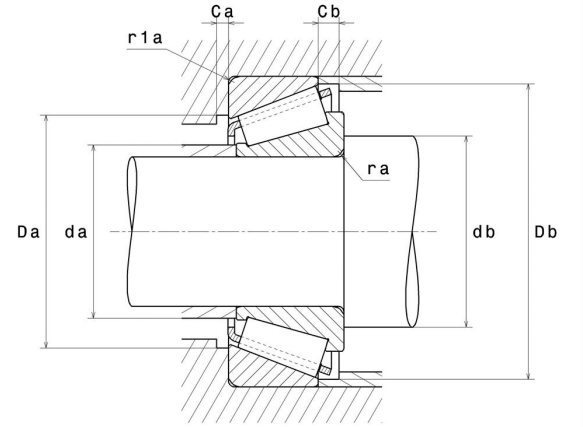
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	70 mm
D	150 mm
B	35 mm
C	25 mm
T	38 mm
d1	110.5 mm
a	47 mm
rs min	3 mm
r1s min	2.5 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	2.92 kg
ISO 355 reference	T7GB070
Brand	NTN

Product performance

Dynamic load, C	193 kN
Rating life coefficient, A2	1.4
Static load, C0	229 kN
Fatigue limit load, Cu	27.2 kN
Nlim (oil)	3,000 Tr/min
Nlim (grease)	2,300 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	84 mm
db min	84 mm
Da min	118 mm
Da max	138 mm
Db min	142 mm
Ca min	4 mm
Cb min	13 mm
ra max	2.5 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