Technical data

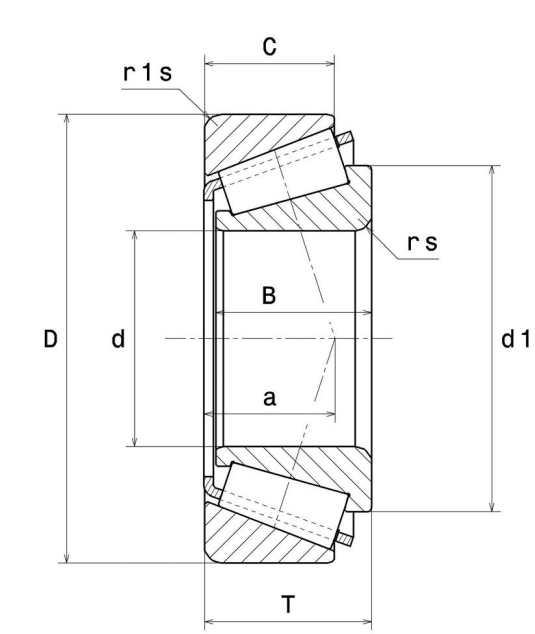
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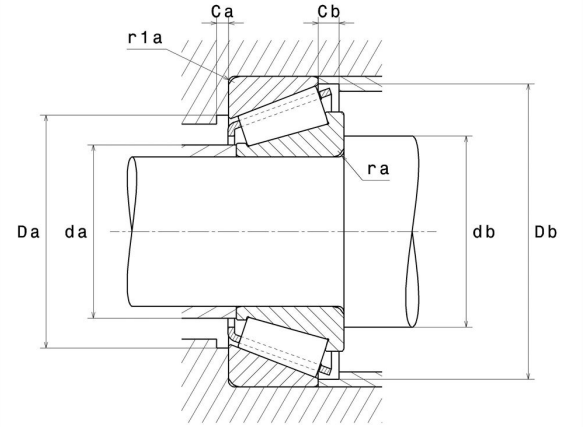
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	70 mm
D	100 mm
B	20 mm
C	16 mm
T	20 mm
d1	85 mm
a	18 mm
rs min	1 mm
r1s min	1 mm
e	0.32
Y2	1.9
Y0	1.05
Mass	0.49 kg
ISO 355 reference	T2BC070
Brand	NTN

Product performance

Dynamic load, C	68.5 kN
Rating life coefficient, A2	1
Static load, C0	110 kN
Fatigue limit load, Cu	13.4 kN
Nlim (oil)	4,600 Tr/min
Nlim (grease)	3,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	11.82 Hz
Characteristic outer ring frequency, BPF0	13.77 Hz
Characteristic inner ring frequency, BPFI	16.23 Hz

Abutment dimensions

da max	76 mm
db min	75.5 mm
Da min	90 mm
Da max	94.5 mm
Db min	96 mm
Ca min	4 mm
Cb min	4 mm
ra max	1 mm
r1a max	1 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