Technical data

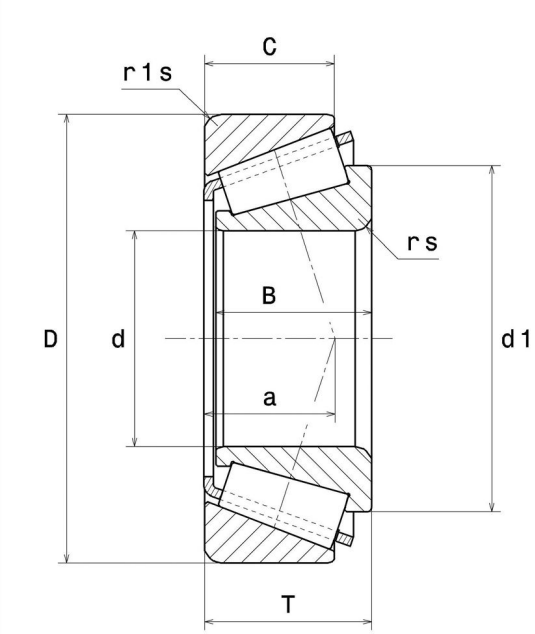
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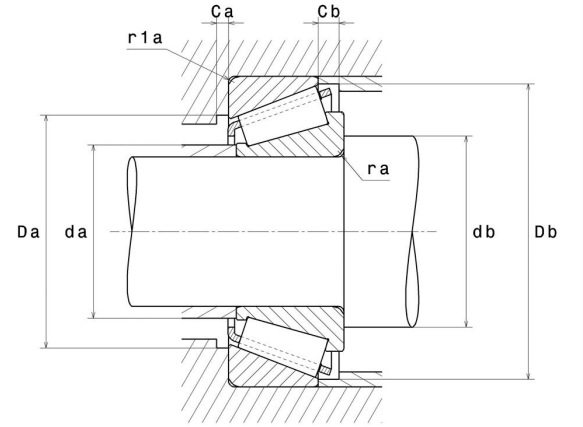
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	75 mm
D	105 mm
B	20 mm
C	16 mm
T	20 mm
d1	90 mm
a	19 mm
rs min	1 mm
r1s min	1 mm
e	0.33
Y2	1.8
Y0	0.99
Mass	0.51 kg
ISO 355 reference	T2BC075
Brand	NTN

Product performance

Dynamic load, C	69.5 kN
Rating life coefficient, A2	1
Static load, C0	114 kN
Fatigue limit load, Cu	13.9 kN
Nlim (oil)	4,300 Tr/min
Nlim (grease)	3,200 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	12.5 Hz
Characteristic outer ring frequency, BPF0	14.3 Hz
Characteristic inner ring frequency, BPFI	16.7 Hz

Abutment dimensions

da max	80 mm
db min	80.5 mm
Da min	94 mm
Da max	99.5 mm
Db min	101.5 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