Technical data

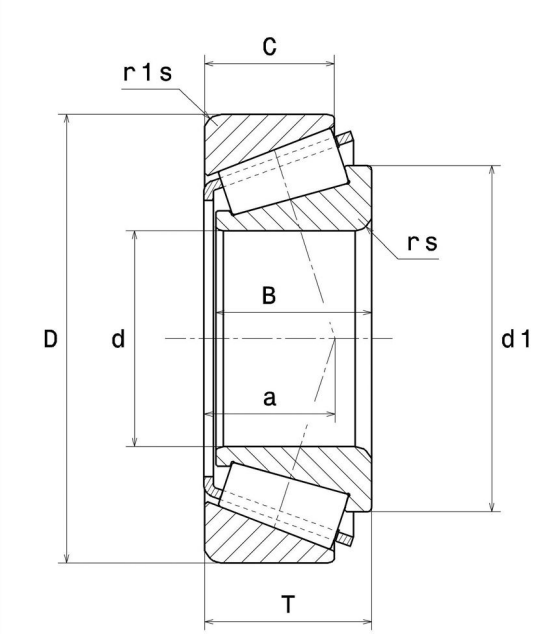
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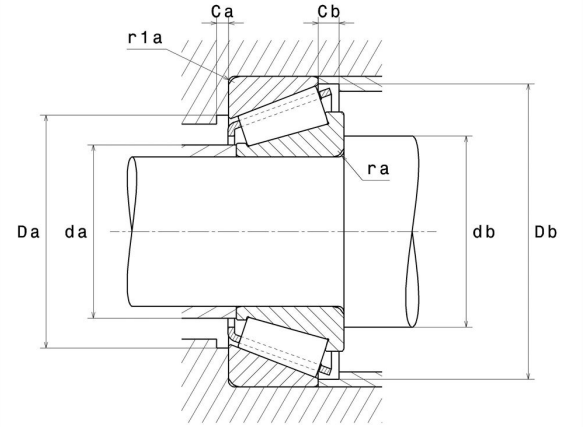
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	70 mm
D	125 mm
B	31 mm
C	27 mm
T	33.25 mm
d1	96 mm
a	28.5 mm
rs min	2 mm
r1s min	1.5 mm
e	0.42
Y2	1.43
Y0	0.79
Mass	1.68 kg
ISO 355 reference	T3EC070
Brand	NTN

Product performance

Dynamic load, C	166 kN
Rating life coefficient, A2	1
Static load, C0	220 kN
Fatigue limit load, Cu	26.8 kN
Nlim (oil)	3,900 Tr/min
Nlim (grease)	2,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.63 Hz
Characteristic outer ring frequency, BPF0	8.58 Hz
Characteristic inner ring frequency, BPFI	11.42 Hz

Abutment dimensions

da max	80 mm
db min	80 mm
Da min	108 mm
Da max	116.5 mm
Db min	119 mm
Ca min	4 mm
Cb min	6 mm
ra max	2 mm
r1a max	1.5 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