Technical data

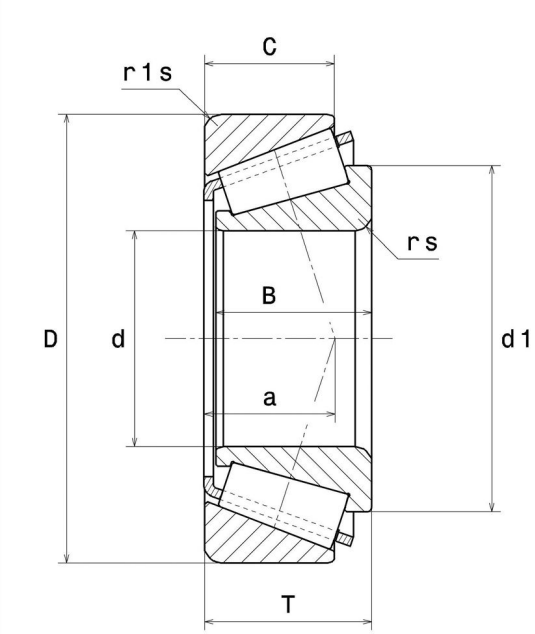
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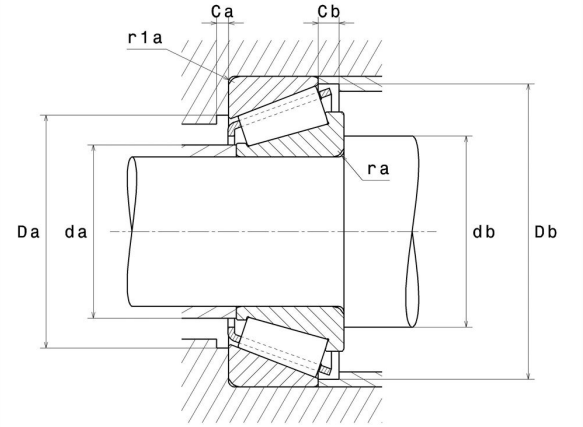
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	70 mm
D	110 mm
B	31 mm
C	25.5 mm
T	31 mm
d1	90.8 mm
a	22.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.28
Y2	2.11
Y0	1.16
Mass	1.07 kg
ISO 355 reference	T2CE070
Brand	NTN

Product performance

Dynamic load, C	127 kN
Rating life coefficient, A2	1
Static load, C0	204 kN
Fatigue limit load, Cu	24.9 kN
Nlim (oil)	4,200 Tr/min
Nlim (grease)	3,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.61 Hz
Characteristic outer ring frequency, BPF0	12.13 Hz
Characteristic inner ring frequency, BPFI	14.87 Hz

Abutment dimensions

da max	79 mm
db min	78.5 mm
Da min	99 mm
Da max	101.5 mm
Db min	105 mm
Ca min	5 mm
Cb min	5.5 mm
ra max	1.5 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