Technical data

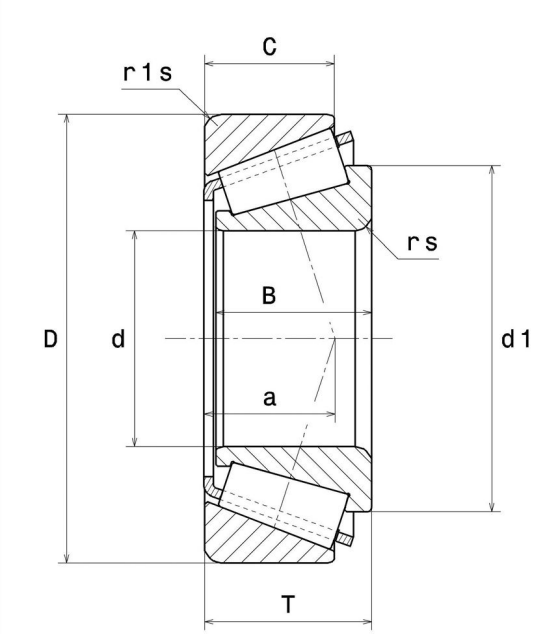
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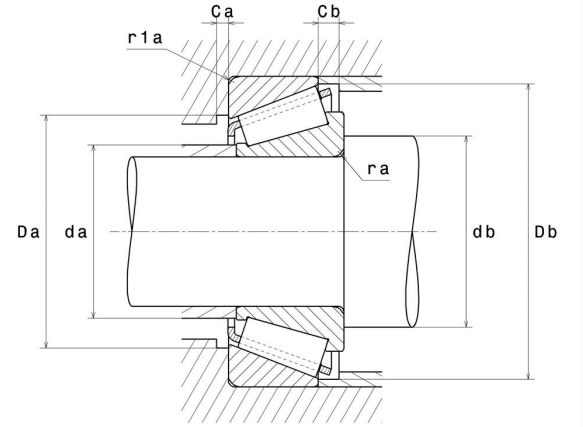
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	100 mm
D	140 mm
B	25 mm
C	20 mm
T	25 mm
d1	120 mm
a	24.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.33
Y2	1.82
Y0	1
Mass	1.14 kg
ISO 355 reference	T2CC100
Brand	NTN

Product performance

Dynamic load, C	121 kN
Rating life coefficient, A2	1
Static load, C0	206 kN
Fatigue limit load, Cu	23.7 kN
Nlim (oil)	3,200 Tr/min
Nlim (grease)	2,400 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	12.36 Hz
Characteristic outer ring frequency, BPF0	14.74 Hz
Characteristic inner ring frequency, BPFI	17.26 Hz

Abutment dimensions

da max	107.5 mm
db min	108.5 mm
Da min	127.5 mm
Da max	131.5 mm
Db min	135.5 mm
Ca min	4 mm
Cb min	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