Technical data

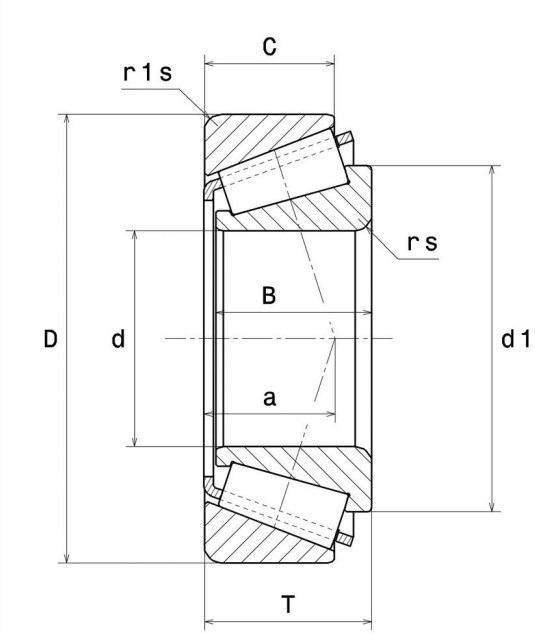
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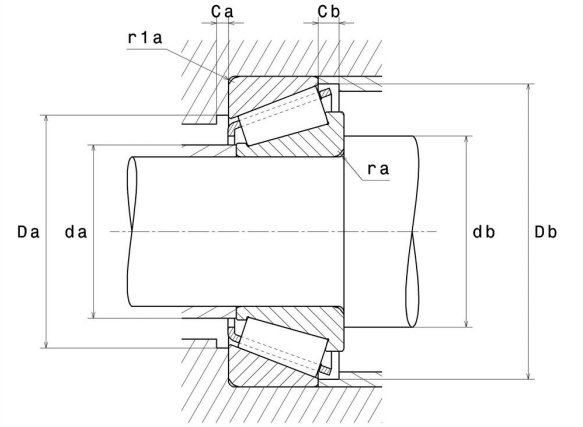
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	90 mm
D	125 mm
B	23 mm
C	18 mm
T	23 mm
d1	108 mm
a	22 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.34
Y2	1.75
Y0	0.96
Mass	0.82 kg
ISO 355 reference	T2BC090
Brand	NTN

Product performance

Dynamic load, C	97.5 kN
Rating life coefficient, A2	1
Static load, C0	168 kN
Fatigue limit load, Cu	20.1 kN
Nlim (oil)	3,600 Tr/min
Nlim (grease)	2,700 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	12.86 Hz
Characteristic outer ring frequency, BPF0	15.26 Hz
Characteristic inner ring frequency, BPFI	17.74 Hz

Abutment dimensions

da max	96 mm
db min	98.5 mm
Da min	112.5 mm
Da max	116.5 mm
Db min	120.5 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