Technical data

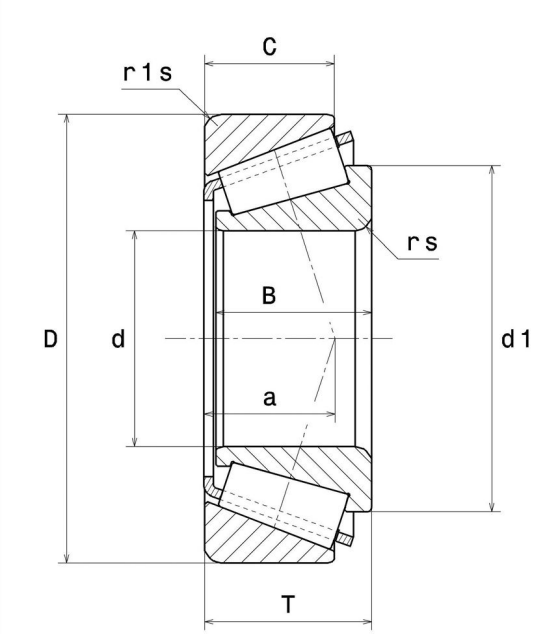
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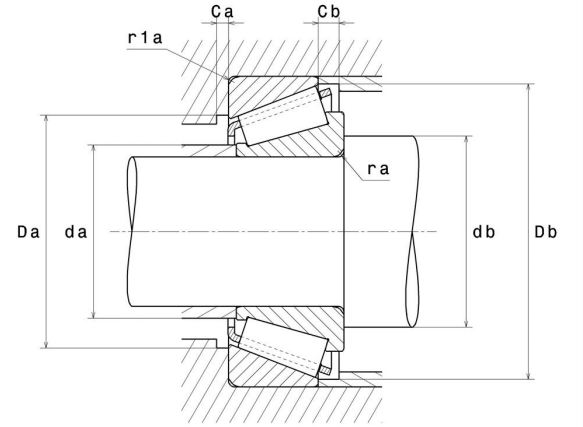
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	90 mm
D	160 mm
B	40 mm
C	34 mm
T	42.5 mm
d1	122.5 mm
a	36 mm
rs min	2.5 mm
r1s min	2 mm
e	0.42
Y2	1.43
Y0	0.79
Mass	3.49 kg
ISO 355 reference	T3FC090
Brand	NTN

Product performance

Dynamic load, C	262 kN
Rating life coefficient, A2	1
Static load, C0	360 kN
Fatigue limit load, Cu	41.2 kN
Nlim (oil)	3,000 Tr/min
Nlim (grease)	2,200 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	102 mm
db min	102 mm
Da min	138 mm
Da max	150 mm
Db min	152 mm
Ca min	5 mm
Cb min	8.5 mm
ra max	2 mm
r1a max	2 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