Technical data

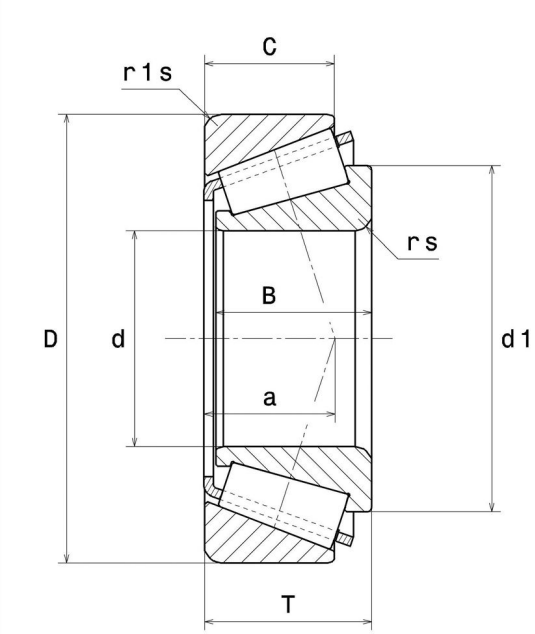
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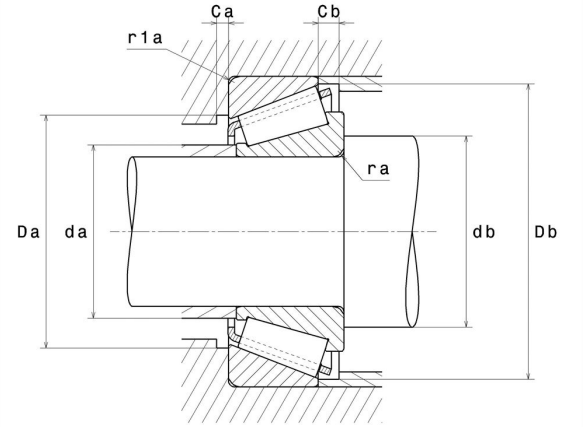
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	90 mm
D	190 mm
B	64 mm
C	53 mm
T	67.5 mm
d1	135.5 mm
a	45.5 mm
rs min	4 mm
r1s min	3 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	8.57 kg
ISO 355 reference	T2GD090
Brand	NTN

Product performance

Dynamic load, C	450 kN
Rating life coefficient, A2	1
Static load, C0	595 kN
Fatigue limit load, Cu	65.7 kN
Nlim (oil)	2,700 Tr/min
Nlim (grease)	2,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.16 Hz
Characteristic inner ring frequency, BPFI	8.84 Hz

Abutment dimensions

da max	108 mm
db min	108 mm
Da min	157 mm
Da max	176 mm
Db min	177 mm
Ca min	5 mm
Cb min	14.5 mm
ra max	3 mm
r1a max	2.5 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