Technical data

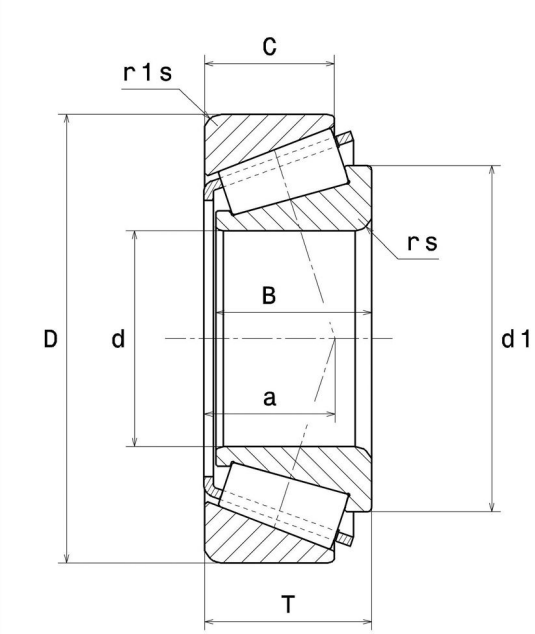
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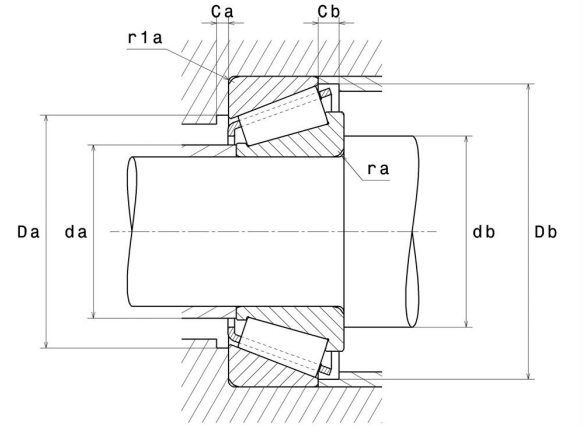
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	190 mm
D	260 mm
B	45 mm
C	34 mm
T	45 mm
d1	226.5 mm
a	55 mm
rs min	2.5 mm
r1s min	2 mm
e	0.48
Y2	1.26
Y0	0.69
Mass	6.77 kg
ISO 355 reference	T4DC190
Brand	NTN

Product performance

Dynamic load, C	355 kN
Rating life coefficient, A2	1
Static load, C0	710 kN
Fatigue limit load, Cu	68 kN
Nlim (oil)	1,600 Tr/min
Nlim (grease)	1,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	13.9 Hz
Characteristic outer ring frequency, BPF0	16.77 Hz
Characteristic inner ring frequency, BPFI	19.23 Hz

Abutment dimensions

da max	204 mm
db min	202 mm
Da min	235 mm
Da max	250 mm
Db min	251 mm
Ca min	8 mm
Cb min	11 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