Technical data

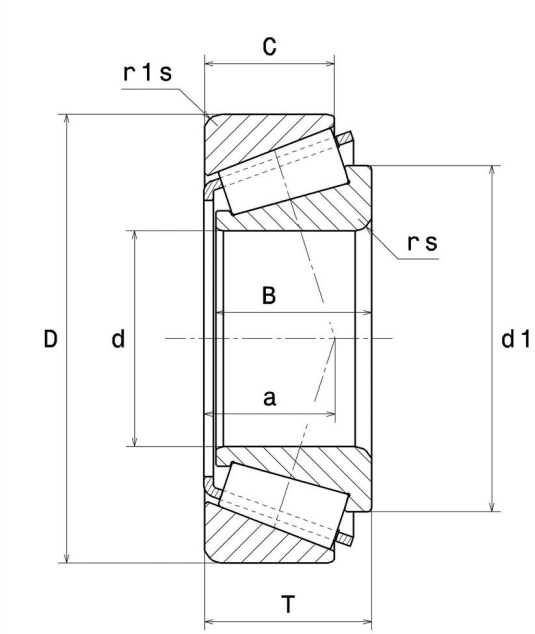
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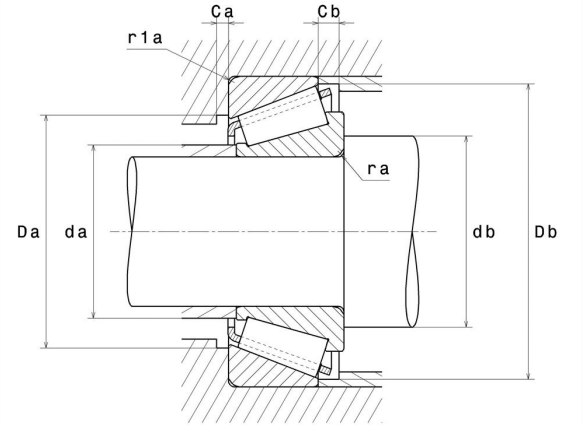
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	180 mm
D	250 mm
B	45 mm
C	34 mm
T	45 mm
d1	216.5 mm
a	54 mm
rs min	2.5 mm
r1s min	2 mm
e	0.48
Y2	1.25
Y0	0.69
Mass	6.54 kg
ISO 355 reference	T4DC180
Brand	NTN

Product performance

Dynamic load, C	350 kN
Rating life coefficient, A2	1
Static load, C0	700 kN
Fatigue limit load, Cu	67.9 kN
Nlim (oil)	1,700 Tr/min
Nlim (grease)	1,300 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	13.47 Hz
Characteristic outer ring frequency, BPF0	16.73 Hz
Characteristic inner ring frequency, BPFI	19.27 Hz

Abutment dimensions

da max	193 mm
db min	192 mm
Da min	225 mm
Da max	240 mm
Db min	241 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