Technical data

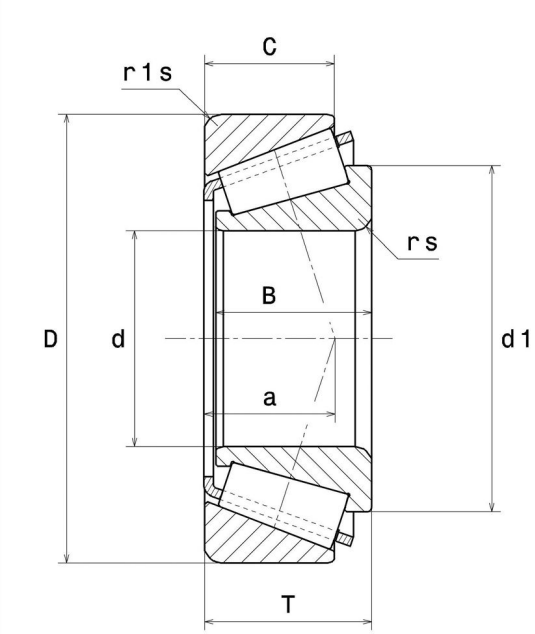
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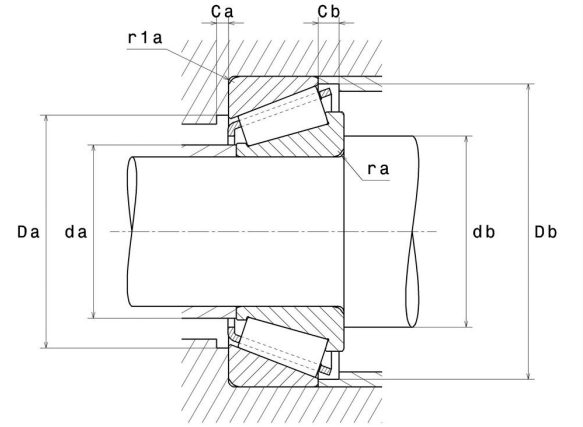
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	200 mm
D	280 mm
B	51 mm
C	39 mm
T	51 mm
d1	239 mm
a	53.5 mm
rs min	3 mm
r1s min	2.5 mm
e	0.39
Y2	1.52
Y0	0.84
Mass	8.88 kg
ISO 355 reference	T3EC200
Brand	NTN

Product performance

Dynamic load, C	485 kN
Rating life coefficient, A2	1
Static load, C0	895 kN
Fatigue limit load, Cu	84 kN
Nlim (oil)	1,500 Tr/min
Nlim (grease)	1,100 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	11.47 Hz
Characteristic outer ring frequency, BPF0	14.66 Hz
Characteristic inner ring frequency, BPFI	17.34 Hz

Abutment dimensions

da max	214 mm
db min	214 mm
Da min	254 mm
Da max	268 mm
Db min	271 mm
Ca min	9 mm
Cb min	12 mm
ra max	2.5 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