Technical data

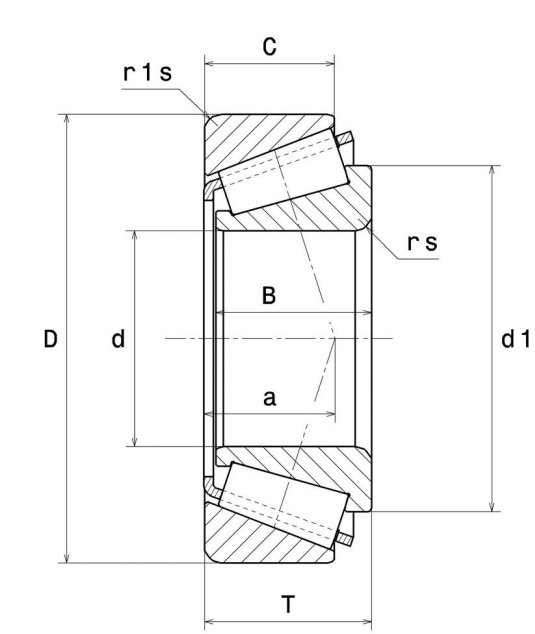
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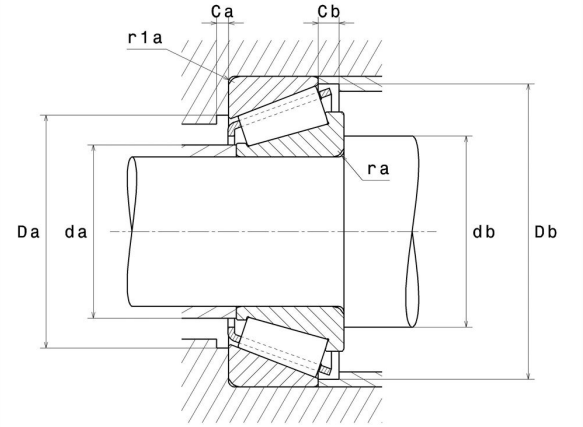
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	140 mm
D	250 mm
B	68 mm
C	58 mm
T	71.75 mm
d1	193 mm
a	61 mm
rs min	4 mm
r1s min	3 mm
e	0.44
Y2	1.38
Y0	0.76
Mass	14.1 kg
ISO 355 reference	T4FD140
Brand	NTN

Product performance

Dynamic load, C	610 kN
Rating life coefficient, A2	1
Static load, C0	920 kN
Fatigue limit load, Cu	92 kN
Nlim (oil)	1,900 Tr/min
Nlim (grease)	1,400 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	6.9 Hz
Characteristic outer ring frequency, BPF0	8.2 Hz
Characteristic inner ring frequency, BPFI	10.8 Hz

Abutment dimensions

da max	158 mm
db min	158 mm
Da min	210 mm
Da max	236 mm
Db min	238 mm
Ca min	9 mm
Cb min	13.5 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