Technical data

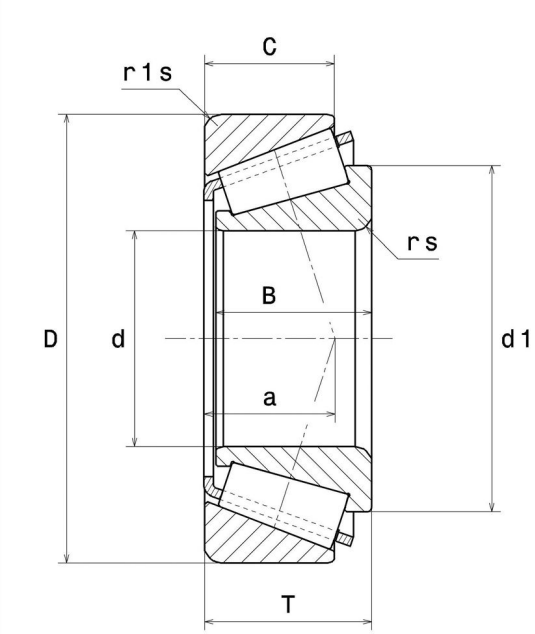
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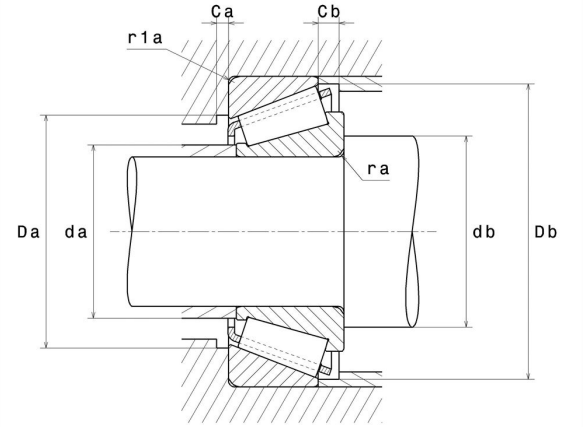
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	280 mm
D	420 mm
B	87 mm
C	65 mm
T	87 mm
d1	351 mm
a	90.5 mm
rs min	5 mm
r1s min	4 mm
e	0.46
Y2	1.31
Y0	0.72
Mass	41.8 kg
ISO 355 reference	T4FC280
Brand	NTN

Product performance

Dynamic load, C	1,220 kN
Rating life coefficient, A2	1
Static load, C0	2,350 kN
Fatigue limit load, Cu	197 kN
Nlim (oil)	980 Tr/min
Nlim (grease)	740 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.14 Hz
Characteristic outer ring frequency, BPF0	13.14 Hz
Characteristic inner ring frequency, BPFI	15.86 Hz

Abutment dimensions

da max	305 mm
db min	302 mm
Da min	370 mm
Da max	402 mm
Db min	402 mm
Ca min	14 mm
Cb min	22 mm
ra max	4 mm
r1a max	3 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