Technical datasheet

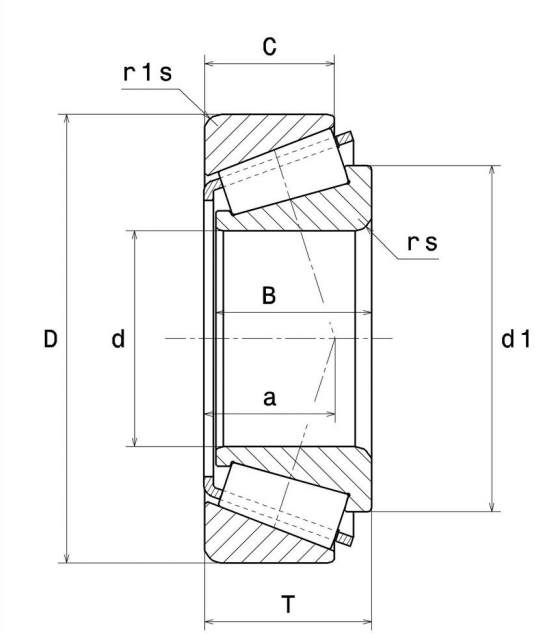
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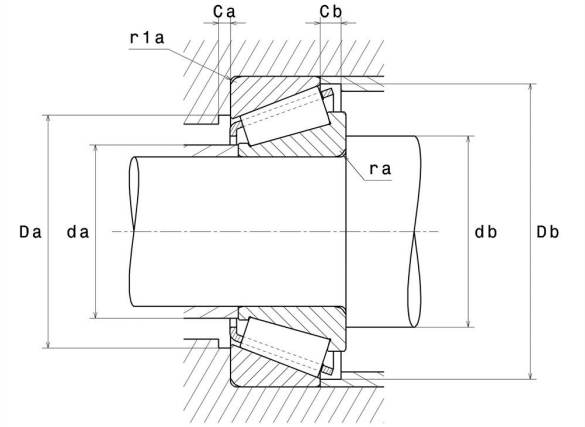
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	280 mm
D	380 mm
B	63.5 mm
C	48 mm
T	63.5 mm
d1	331.5 mm
a	75 mm
rs min	3 mm
r1s min	2.5 mm
e	0.43
Y2	1.39
Y0	0.76
Mass	20 kg
ISO 355 reference	T4EC280
Brand	NTN

Product performance

Dynamic load, C	725 kN
Rating life coefficient, A2	1
Static load, C0	1,520 kN
Fatigue limit load, Cu	129.5 kN
Nlim (oil)	1,100 rpm
Nlim (grease)	790 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	13.64 Hz
Characteristic outer ring frequency, BPF0	16.74 Hz
Characteristic inner ring frequency, BPFI	19.26 Hz

Abutment dimensions

da max	298 mm
db min	294 mm
Da min	344 mm
Da max	368 mm
Db min	368 mm
Ca min	11 mm
Cb min	15 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