Technical datasheet

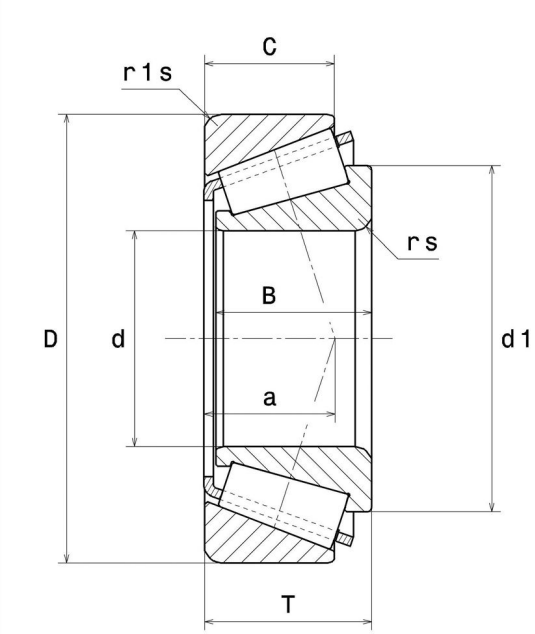
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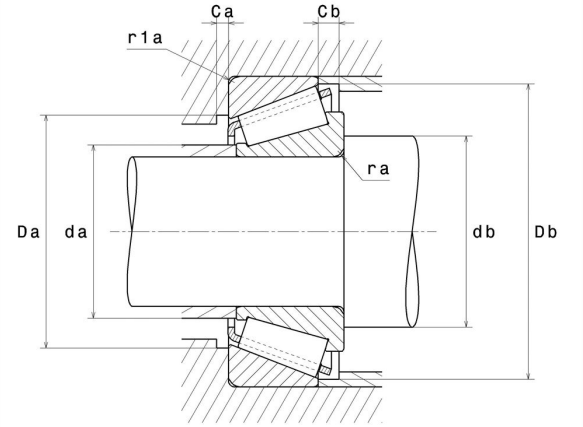
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	130 mm
D	280 mm
B	66 mm
C	44 mm
T	72 mm
d1	206 mm
a	87.5 mm
rs min	5 mm
r1s min	4 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	19 kg
ISO 355 reference	T7GB130
Brand	NTN

Product performance

Dynamic load, C	600 kN
Rating life coefficient, A2	1
Static load, C0	780 kN
Fatigue limit load, Cu	76.8 kN
Nlim (oil)	1,800 rpm
Nlim (grease)	1,400 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.76 Hz
Characteristic inner ring frequency, BPFI	9.24 Hz

Abutment dimensions

da max	155.5 mm
db min	152 mm
Da min	214.5 mm
Da max	262 mm
Db min	263 mm
Ca min	9 mm
Cb min	28 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