Technical data

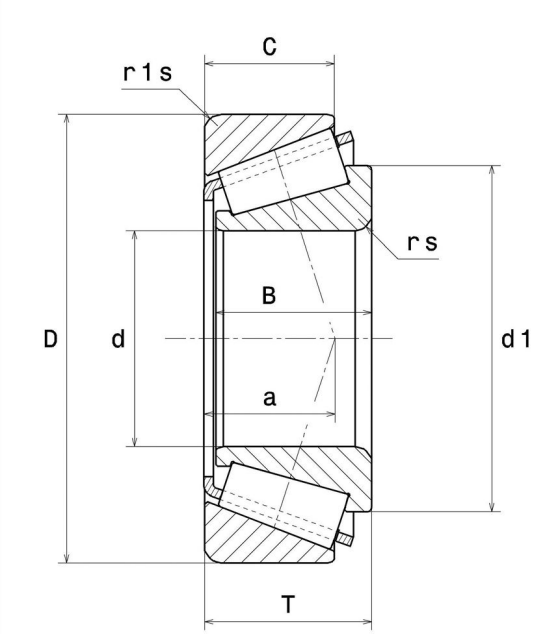
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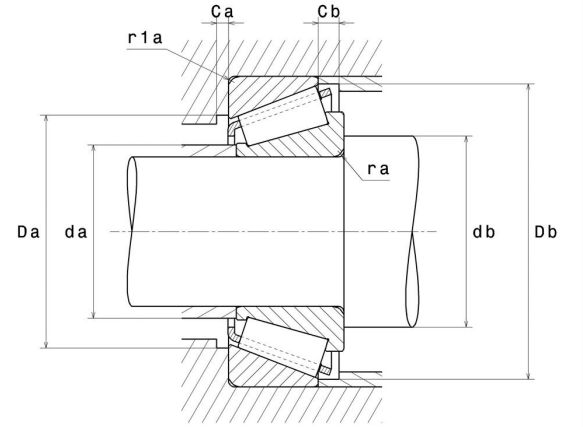
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	90 mm
B	32 mm
C	24.5 mm
T	32 mm
d1	70.5 mm
a	23.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.41
Y2	1.45
Y0	0.8
Mass	0.85 kg
ISO 355 reference	T3DE050
Brand	NTN

Product performance

Dynamic load, C	115 kN
Rating life coefficient, A2	1.4
Static load, C0	158 kN
Fatigue limit load, Cu	19.3 kN
Nlim (oil)	5,300 Tr/min
Nlim (grease)	4,000 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	6.86 Hz
Characteristic outer ring frequency, BPF0	8.62 Hz
Characteristic inner ring frequency, BPFI	11.38 Hz

Abutment dimensions

da max	57 mm
db min	58.5 mm
Da min	77 mm
Da max	81.5 mm
Db min	87 mm
Ca min	5 mm
Cb min	7.5 mm
ra max	1.5 mm
r1a max	1.5 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