Technical data

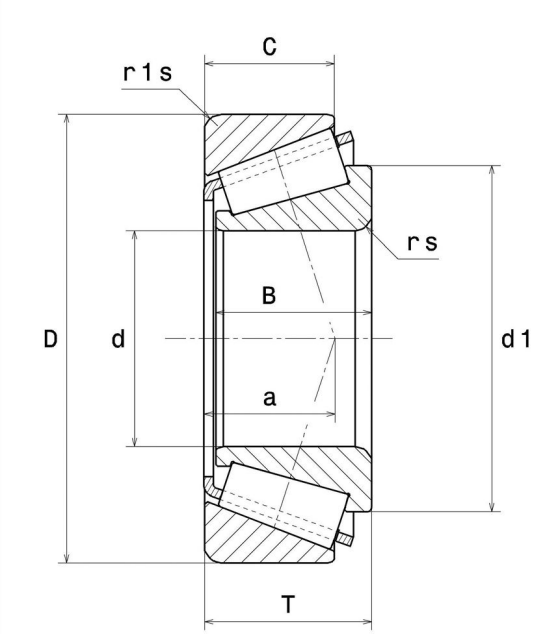
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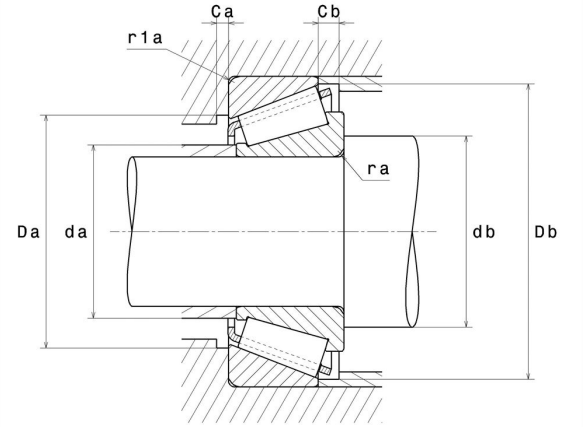
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	35 mm
D	55 mm
B	14 mm
C	11.5 mm
T	14 mm
a	10.5 mm
rs min	0.6 mm
r1s min	0.6 mm
e	0.29
Y2	2.06
Y0	1.13
Mass	0.12 kg
ISO 355 reference	T2BD035
Brand	NTN

Product performance

Dynamic load, C	27.4 kN
Rating life coefficient, A2	1
Static load, C0	37.5 kN
Fatigue limit load, Cu	4.55 kN
Nlim (oil)	9,000 Tr/min
Nlim (grease)	6,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C

Abutment dimensions

da max	39.5 mm
db min	40 mm
Da max	50.5 mm
Db min	52.5 mm
ra max	0.6 mm
r1a max	0.6 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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