Technical data

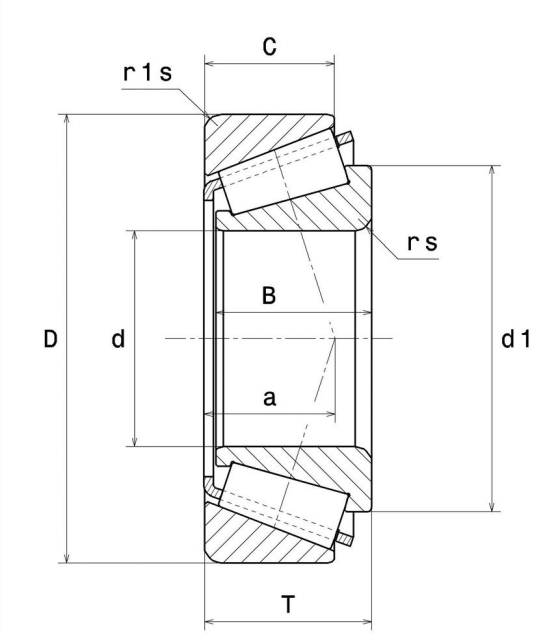
32010.A

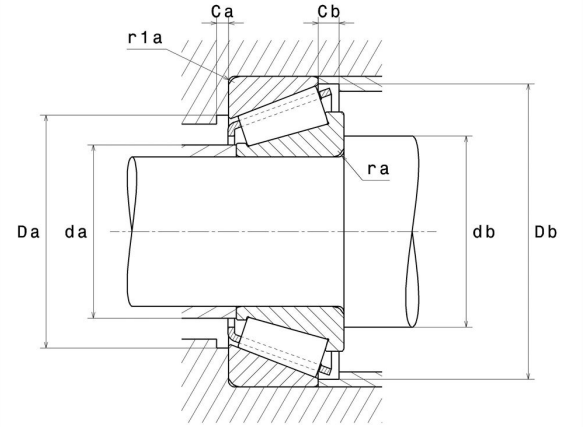
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	50 mm
D	80 mm
B	20 mm
C	15.5 mm
T	20 mm
d1	65.8 mm
a	18 mm
rs min	1 mm
r1s min	1 mm
e	0.42
Y2	1.42
Y0	0.78
Mass	0.37 kg
ISO 355 reference	T3CC050
Brand	SNR

Product performance

Dynamic load, C	62.8 kN
Rating life coefficient, A2	1
Static load, C0	88.2 kN
Fatigue limit load, Cu	10.8 kN
Nref	5,100 Tr/min
Nlim	8,700 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	8.77 Hz
Characteristic outer ring frequency, BPF0	10.25 Hz
Characteristic inner ring frequency, BPFI	12.75 Hz

Abutment dimensions

da max	56 mm
db min	55.5 mm
Da min	72 mm
Da max	74.5 mm
Db min	77 mm
Ca min	4 mm
Cb min	4.5 mm
ra max	1 mm
r1a max	1 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