Technical data

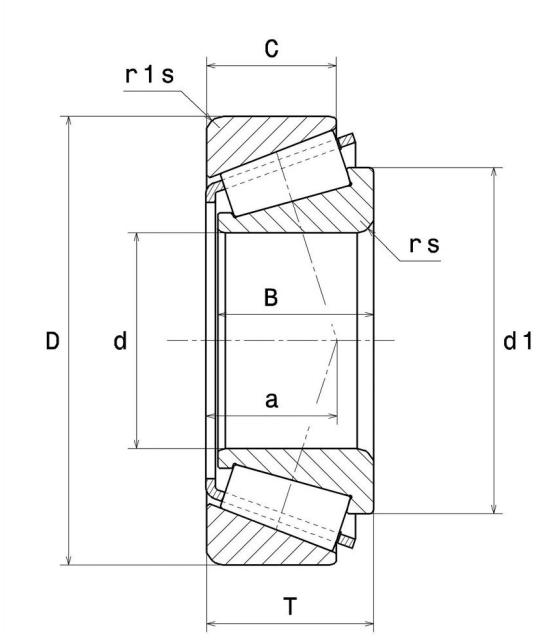
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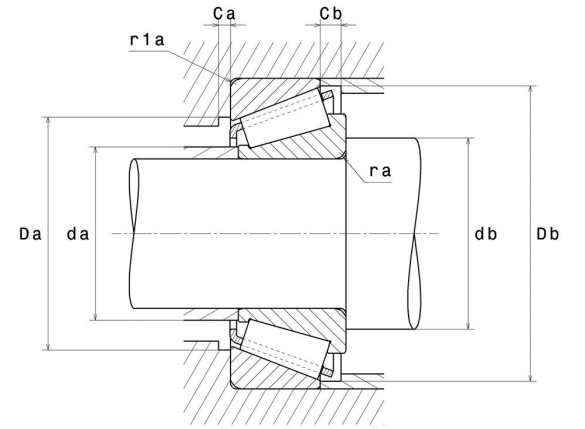
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	50 mm
D	90 mm
B	20 mm
C	17 mm
T	21.75 mm
d1	68.4 mm
a	20 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.42
Y2	1.43
Y0	0.79
Mass	0.53 kg
ISO 355 reference	T3DB050
Brand	SNR

Product performance

Dynamic load, C	76.7 kN
Rating life coefficient, A2	1
Static load, C0	92.1 kN
Fatigue limit load, Cu	11.2 kN
Nref	5,100 Tr/min
Nlim	8,100 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	6.63 Hz
Characteristic outer ring frequency, BPF0	8.15 Hz
Characteristic inner ring frequency, BPFI	10.85 Hz

Abutment dimensions

da max	58 mm
db min	58.5 mm
Da min	79 mm
Da max	81.5 mm
Db min	85 mm
Ca min	3 mm
Cb min	4.5 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