Technical data

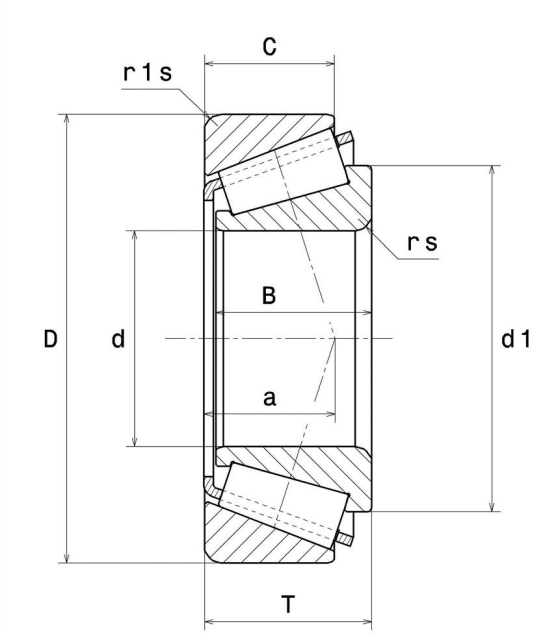
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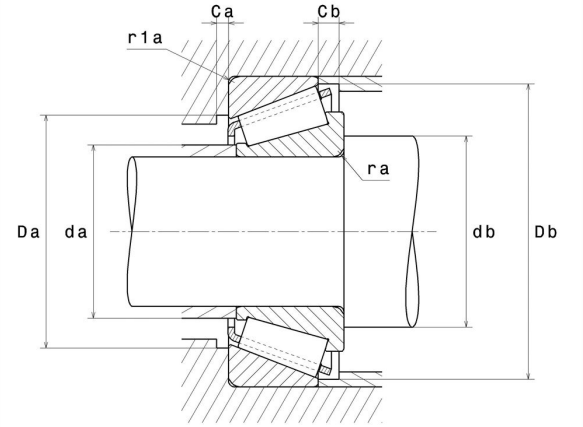
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	80 mm
D	170 mm
B	58 mm
C	48 mm
T	61.5 mm
d1	125.2 mm
a	49 mm
rs min	3 mm
r1s min	2.5 mm
e	0.55
Y2	1.1
Y0	0.6
Mass	6.3 kg
ISO 355 reference	T5GD080B
Brand	SNR

Product performance

Dynamic load, C	365 kN
Rating life coefficient, A2	1
Static load, C0	470 kN
Fatigue limit load, Cu	53.7 kN
Nref	3,300 Tr/min
Nlim	4,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.42 Hz
Characteristic outer ring frequency, BPF0	6.65 Hz
Characteristic inner ring frequency, BPFI	9.35 Hz

Abutment dimensions

da max	96 mm
db min	94 mm
Da min	137 mm
Da max	158 mm
Db min	164.3 mm
Ca min	7 mm
Cb min	13.5 mm
ra max	2.5 mm
r1a max	2 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