Technical data

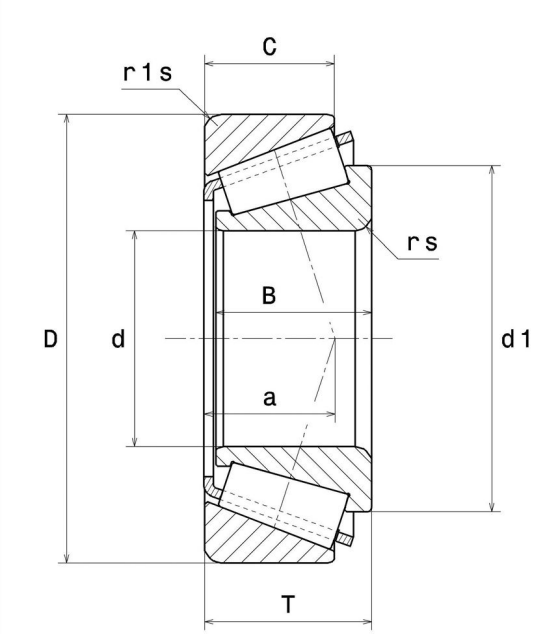
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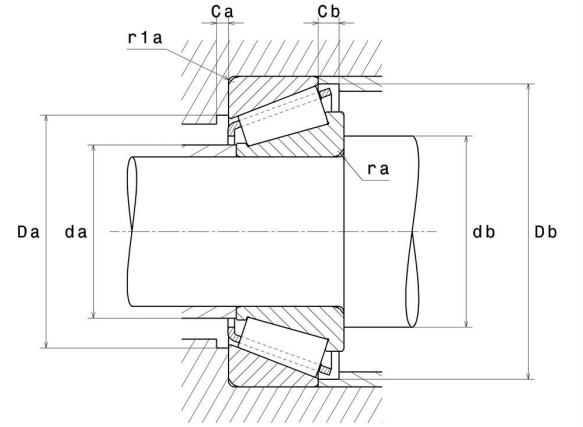
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	45.99 mm
D	74.98 mm
B	18 mm
C	14 mm
T	18 mm
d1	61.5 mm
a	15.8 mm
rs min	2.3 mm
r1s min	1.5 mm
e	0.4
Y2	1.49
Y0	0.82
Mass	0.3 kg
Brand	SNR

Product performance

Dynamic load, C	53.4 kN
Rating life coefficient, A2	1
Static load, C0	75.4 kN
Fatigue limit load, Cu	9.2 kN
Nref	4,500 Tr/min
Nlim	9,000 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	8.98 Hz
Characteristic outer ring frequency, BPF0	11.17 Hz
Characteristic inner ring frequency, BPFI	13.83 Hz

Abutment dimensions

db min	57.99 mm
Da max	66.5 mm
ra max	2 mm
r1a max	1.5 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