Technical data

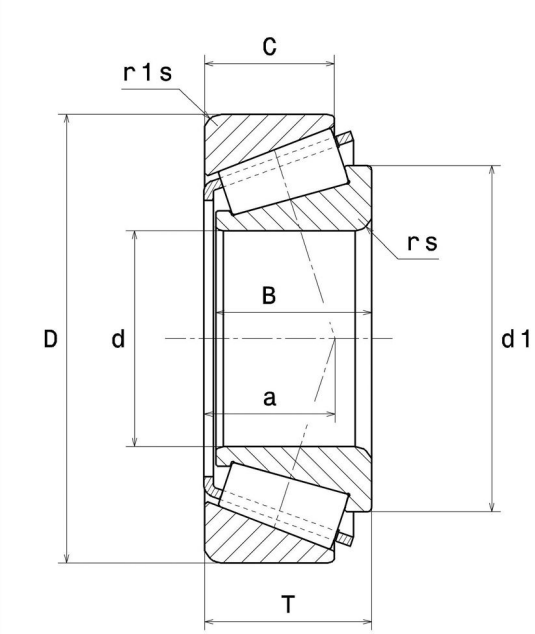
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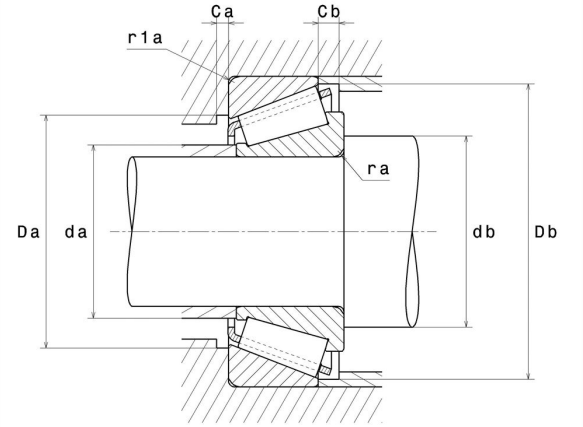
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	45 mm
D	80 mm
B	26 mm
C	20.5 mm
T	26 mm
d1	62.3 mm
a	19.2 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.38
Y2	1.57
Y0	0.86
Mass	0.54 kg
ISO 355 reference	T3CE045
Brand	SNR

Product performance

Dynamic load, C	87.4 kN
Rating life coefficient, A2	1
Static load, C0	118 kN
Fatigue limit load, Cu	14.4 kN
Nref	5,000 Tr/min
Nlim	8,800 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	7 Hz
Characteristic outer ring frequency, BPF0	8.64 Hz
Characteristic inner ring frequency, BPFI	11.36 Hz

Abutment dimensions

da max	52 mm
db min	53.5 mm
Da min	69 mm
Da max	71.5 mm
Db min	77 mm
Ca min	4 mm
Cb min	5.5 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