Technical data

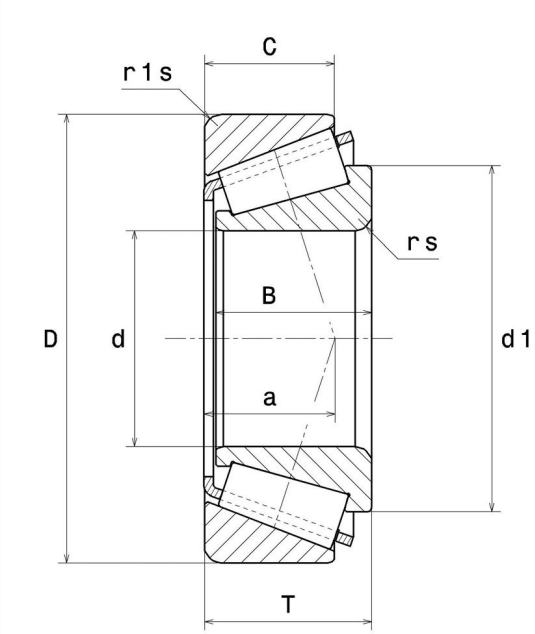
30209.A

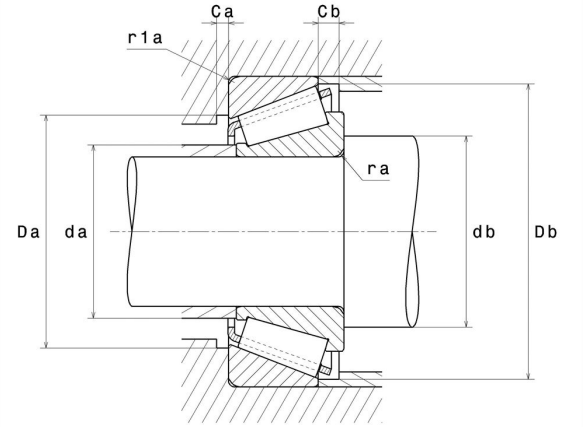
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	15 mm
D	35 mm
B	11 mm
C	10 mm
T	11.75 mm
d1	24.6 mm
a	8.4 mm
rs min	0.6 mm
r1s min	0.6 mm
e	0.32
Y2	1.85
Y0	1.02
Mass	0.05 kg
Brand	SNR

Product performance

Dynamic load, C	16.3 kN
Rating life coefficient, A2	1
Static load, C0	15 kN
Fatigue limit load, Cu	1.83 kN
Nref	13,000 Tr/min
Nlim	23,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.73 Hz
Characteristic outer ring frequency, BPF0	5.21 Hz
Characteristic inner ring frequency, BPFI	7.79 Hz

Abutment dimensions

db min	20.5 mm
Da min	29 mm
Da max	29.5 mm
Db min	33 mm
Ca min	2 mm
Cb min	1.8 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