Technical data

30310.A

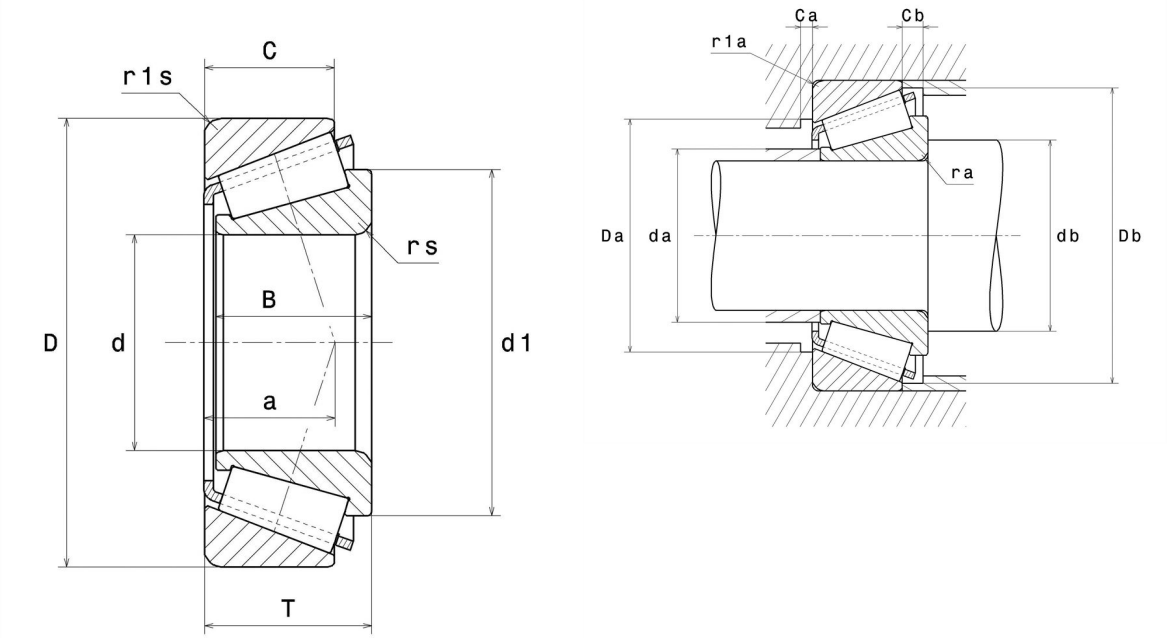
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

ULTAGE



Visual(s)



Product definition

d	50 mm
D	110 mm
B	27 mm
C	23 mm
T	29.25 mm
d1	78.1 mm
a	23.1 mm
rs min	2.5 mm
r1s min	2 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	1.28 kg
ISO 355 reference	T2FB050
Brand	SNR

Product performance

Dynamic load, C	18.64 kN
Rating life coefficient, A2	1
Static load, C0	157 kN
Fatigue limit load, Cu	19.1 kN
Nref	4,700 Tr/min
Nlim	6,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPFI	9.43 Hz

Abutment dimensions

da max	65 mm
db min	62 mm
Da min	95 mm
Da max	100 mm
Db min	102 mm
Ca min	4 mm
Cb min	6 mm
ra max	2 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