Technical datasheet

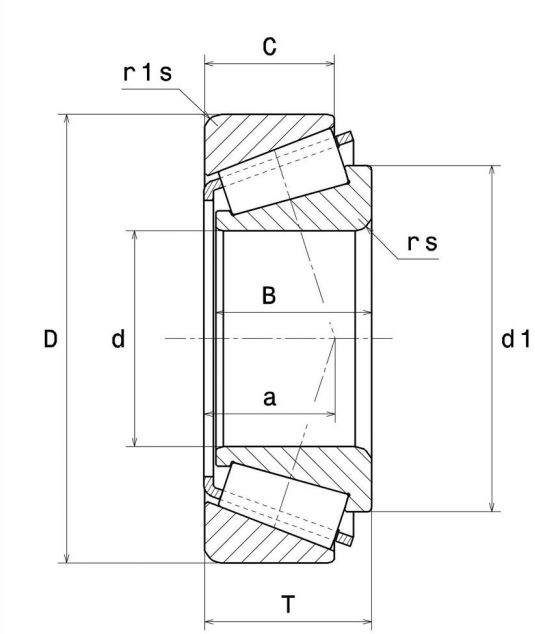
EC0-33009

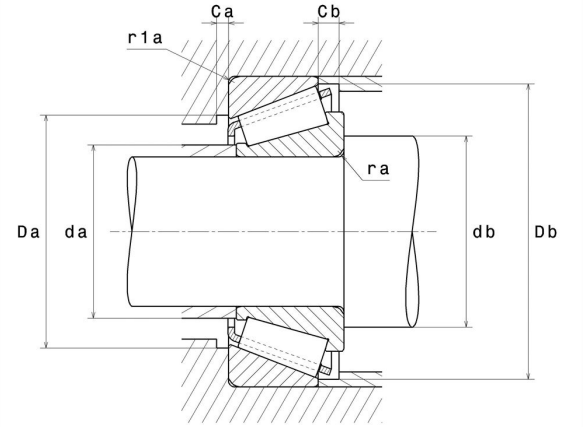
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	45 mm
D	75 mm
B	24 mm
C	19 mm
T	24 mm
d1	60 mm
a	16 mm
rs min	1 mm
r1s min	1 mm
e	0.29
Y2	2.04
Y0	1.12
Mass	0.4 kg
ISO 355 reference	T2CE045
Brand	NTN

Product performance

Dynamic load, C	66 kN
Rating life coefficient, A2	2.8
Static load, C0	93.5 kN
Fatigue limit load, Cu	11.4 kN
Nlim (oil)	6,400 rpm
Nlim (grease)	4,800 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.35 Hz
Characteristic outer ring frequency, BPF0	9.72 Hz
Characteristic inner ring frequency, BPFI	12.28 Hz

Abutment dimensions

da max	51 mm
db min	50.5 mm
Da min	67 mm
Da max	69.5 mm
Db min	71 mm
Ca min	4 mm
Cb min	5 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