Technical data

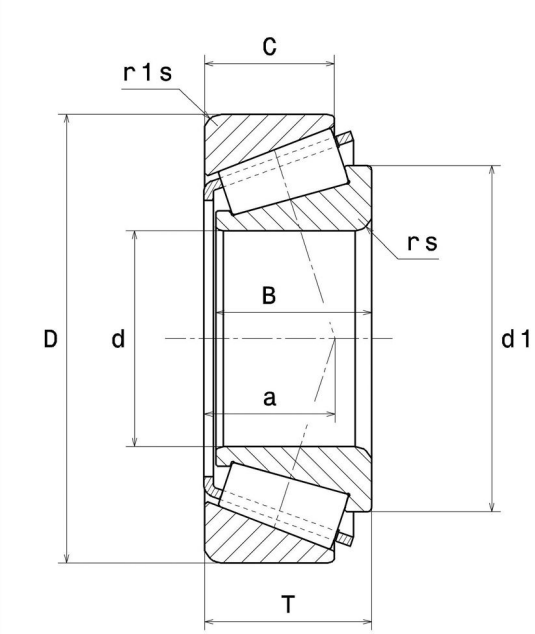
4T-30308

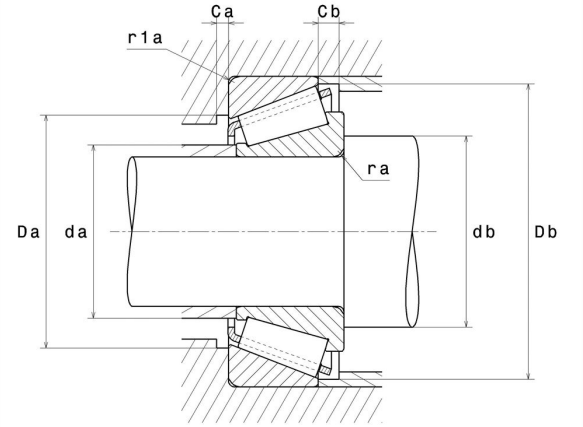
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	40 mm
D	90 mm
B	23 mm
C	20 mm
T	25.25 mm
d1	63.5 mm
a	19.5 mm
rs min	2 mm
r1s min	1.5 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	0.77 kg
ISO 355 reference	T2FB040
Brand	NTN

Product performance

Dynamic load, C	91.5 kN
Rating life coefficient, A2	1.4
Static load, C0	102 kN
Fatigue limit load, Cu	12.4 kN
Nlim (oil)	5,900 Tr/min
Nlim (grease)	4,400 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	52 mm
db min	50 mm
Da min	77 mm
Da max	81.5 mm
Db min	82 mm
Ca min	3 mm
Cb min	5 mm
ra max	2 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