Technical data

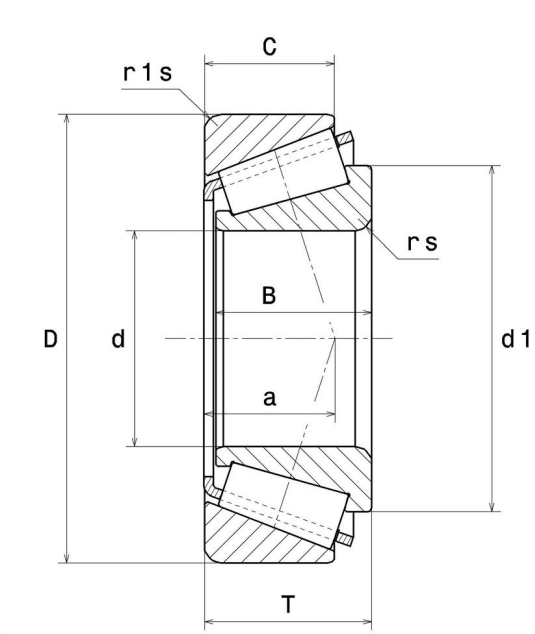
4T-T4CB100

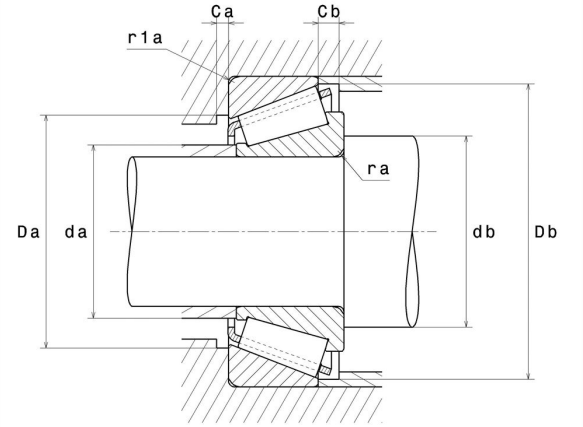
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	100 mm
D	145 mm
B	22.5 mm
C	17.5 mm
T	24 mm
d1	121.5 mm
a	30 mm
rs min	3 mm
r1s min	3 mm
e	0.47
Y2	1.27
Y0	0.7
Mass	1.15 kg
ISO 355 reference	T4CB100
Brand	NTN

Product performance

Dynamic load, C	107 kN
Rating life coefficient, A2	1.4
Static load, C0	153 kN
Fatigue limit load, Cu	17.6 kN
Nlim (oil)	2,400 Tr/min
Nlim (grease)	1,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.2 Hz
Characteristic outer ring frequency, BPF0	11.34 Hz
Characteristic inner ring frequency, BPFI	13.66 Hz

Abutment dimensions

da max	109 mm
db min	114 mm
Da min	130 mm
Da max	131 mm
Db min	140 mm
Ca min	4 mm
Cb min	6.5 mm
ra max	2.5 mm
r1a max	2.5 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