Technical data

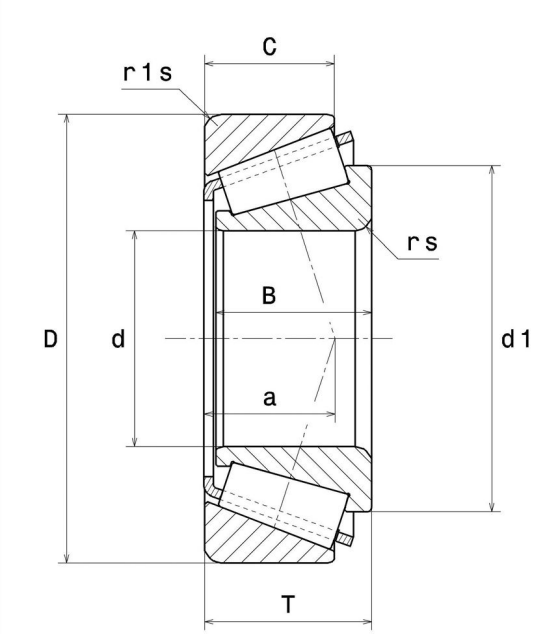
4T-30318D

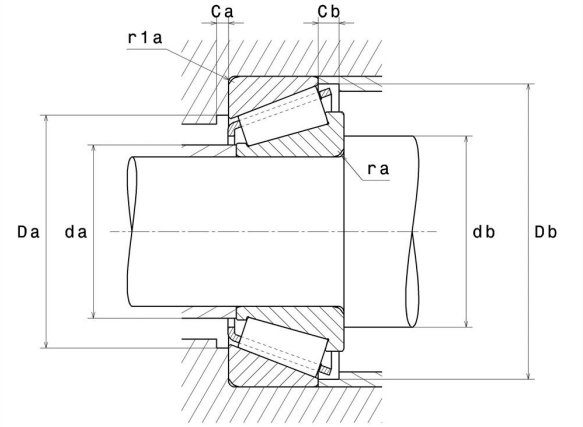
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	90 mm
D	190 mm
B	43 mm
C	30 mm
T	46.5 mm
d1	140 mm
a	59 mm
rs min	4 mm
r1s min	3 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	5.66 kg
ISO 355 reference	T7GB090
Brand	NTN

Product performance

Dynamic load, C	270 kN
Rating life coefficient, A2	1.4
Static load, C0	320 kN
Fatigue limit load, Cu	35.3 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	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.34 Hz
Characteristic inner ring frequency, BPFI	8.66 Hz

Abutment dimensions

da max	109 mm
db min	108 mm
Da min	151 mm
Da max	176 mm
Db min	179 mm
Ca min	6 mm
Cb min	16.5 mm
ra max	3 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