Technical data

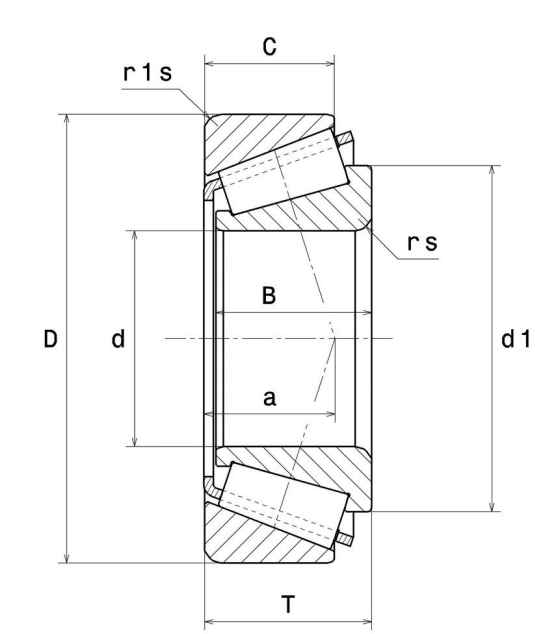
33018U

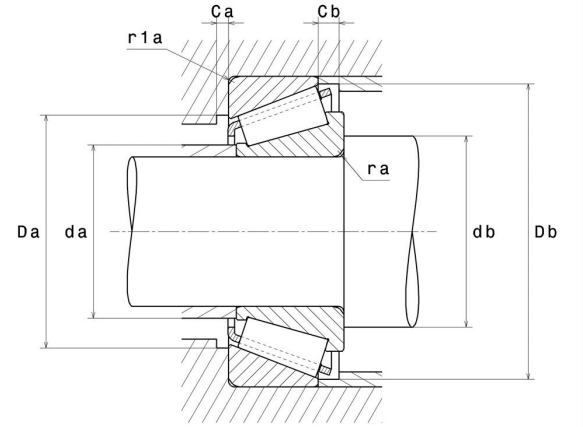
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	90 mm
D	140 mm
B	39 mm
C	32.5 mm
T	39 mm
d1	115.5 mm
a	28 mm
rs min	2 mm
r1s min	1.5 mm
e	0.27
Y2	2.23
Y0	1.23
Mass	2.18 kg
ISO 355 reference	T2CE090
Brand	NTN

Product performance

Dynamic load, C	215 kN
Rating life coefficient, A2	1
Static load, C0	360 kN
Fatigue limit load, Cu	42 kN
Nlim (oil)	3,300 Tr/min
Nlim (grease)	2,500 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	9.38 Hz
Characteristic outer ring frequency, BPF0	11.65 Hz
Characteristic inner ring frequency, BPFI	14.35 Hz

Abutment dimensions

da max	100 mm
db min	100 mm
Da min	127 mm
Da max	131.5 mm
Db min	135 mm
Ca min	7 mm
Cb min	6.5 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