Technical data

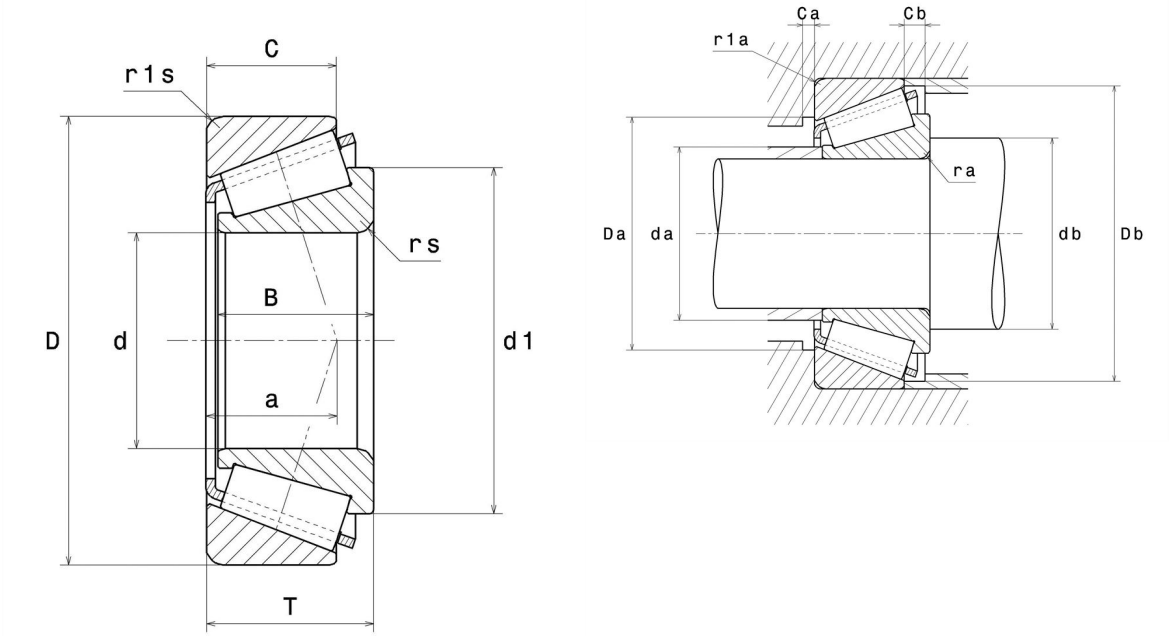
32018XU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	90 mm
D	140 mm
B	32 mm
C	24 mm
T	32 mm
d1	115.5 mm
a	30 mm
rs min	2 mm
r1s min	1.5 mm
e	0.42
Y2	1.42
Y0	0.78
Mass	1.79 kg
ISO 355 reference	T3CC090
Brand	NTN

Product performance

Dynamic load, C	168 kN
Rating life coefficient, A2	1
Static load, C0	270 kN
Fatigue limit load, Cu	31.6 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	9.62 Hz
Characteristic outer ring frequency, BPF0	12.61 Hz
Characteristic inner ring frequency, BPFI	15.39 Hz

Abutment dimensions

da max	100 mm
db min	100 mm
Da min	125 mm
Da max	131.5 mm
Db min	134 mm
Ca min	6 mm
Cb min	8 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