Technical data

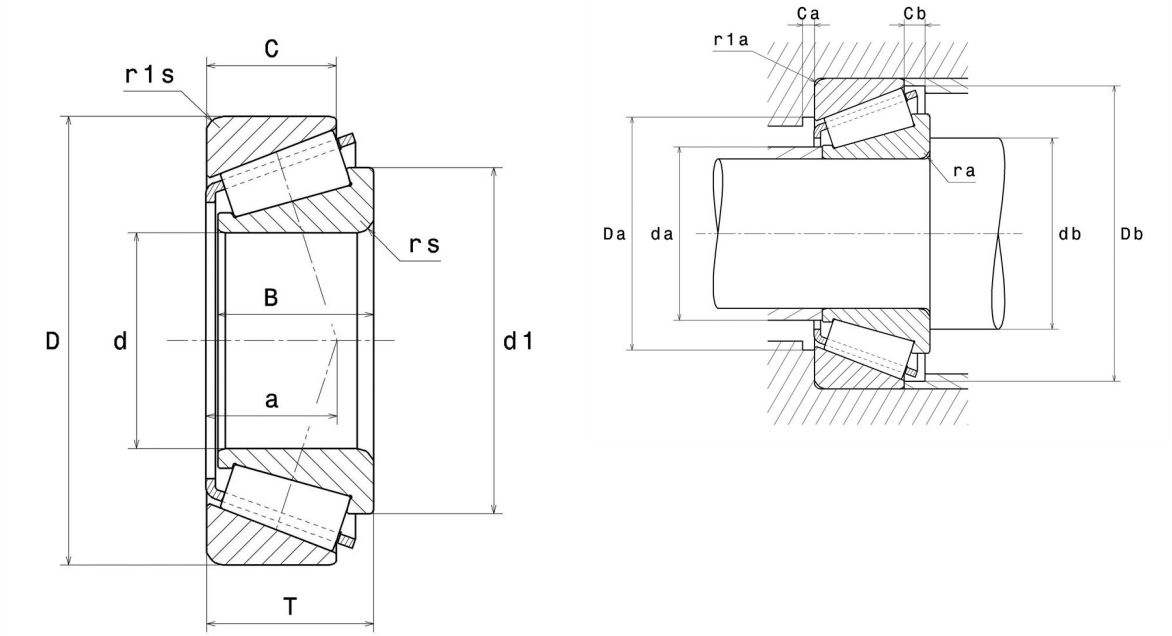
32019XU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	95 mm
D	145 mm
B	32 mm
C	24 mm
T	32 mm
d1	121 mm
a	31.5 mm
rs min	2 mm
r1s min	1.5 mm
e	0.44
Y2	1.36
Y0	0.75
Mass	1.83 kg
ISO 355 reference	T4CC095
Brand	NTN

Product performance

Dynamic load, C	171 kN
Rating life coefficient, A2	1
Static load, C0	280 kN
Fatigue limit load, Cu	32.3 kN
Nlim (oil)	3,100 Tr/min
Nlim (grease)	2,300 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	10.07 Hz
Characteristic outer ring frequency, BPF0	13.13 Hz
Characteristic inner ring frequency, BPFI	15.87 Hz

Abutment dimensions

da max	105 mm
db min	105 mm
Da min	130 mm
Da max	136.5 mm
Db min	140 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