



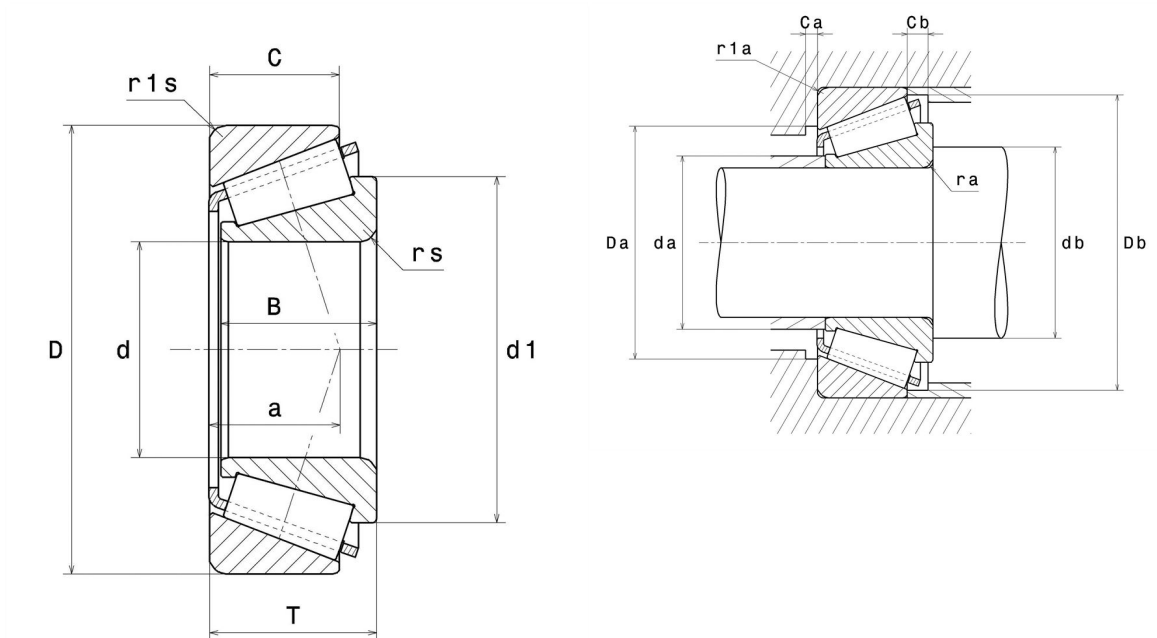
Technical data

30319DU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	95 mm
D	200 mm
B	45 mm
C	32 mm
T	49.5 mm
d1	146.5 mm
a	62.5 mm
rs min	4 mm
r1s min	3 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	6.47 kg
ISO 355 reference	T7GB095
Brand	NTN

Product performance

Dynamic load, C	296 kN
Rating life coefficient, A2	1
Static load, C0	355 kN
Fatigue limit load, Cu	38.7 kN
Nlim (oil)	2,200 Tr/min
Nlim (grease)	1,700 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	114 mm
db min	113 mm
Da min	154 mm
Da max	186 mm
Db min	187 mm
Ca min	6 mm
Cb min	17.5 mm
ra max	3 mm
r1a max	2.5 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table