Technical data

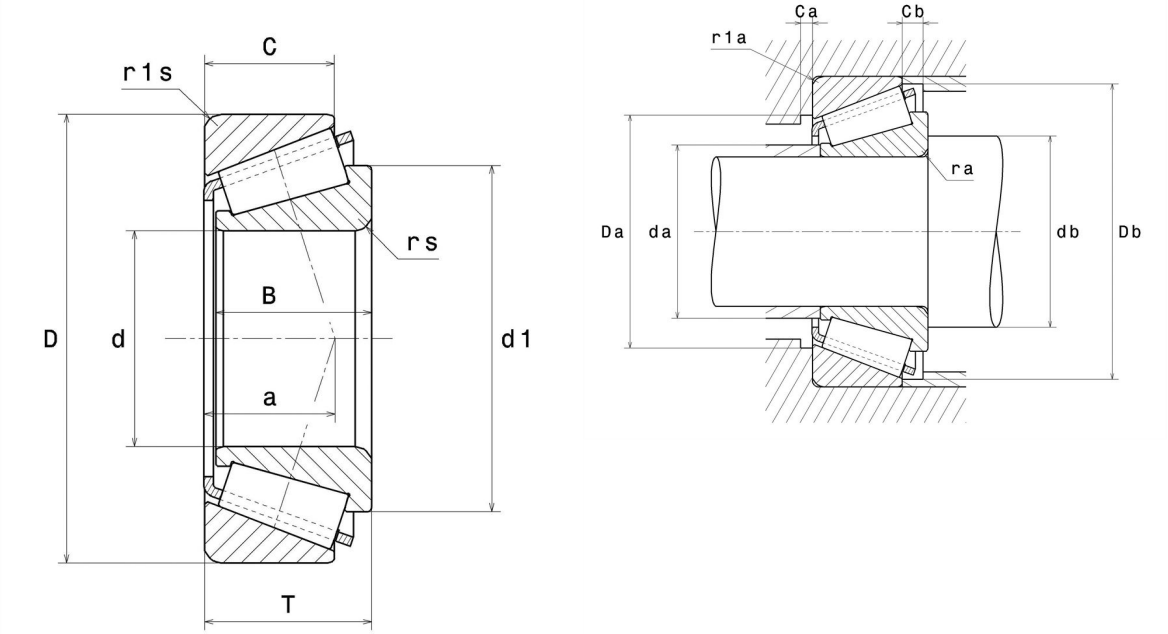
4T-497/493

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	85.72 mm
D	136.52 mm
B	29.77 mm
C	22.22 mm
T	30.16 mm
d1	109.5 mm
a	29.46 mm
e	0.44
Y2	1.35
Y0	0.74
Mass	1.55 kg
Brand	NTN

Product performance

Dynamic load, C	129 kN
Rating life coefficient, A2	1.4
Static load, C0	189 kN
Fatigue limit load, Cu	22.4 kN
Nlim (oil)	3,500 Tr/min
Nlim (grease)	2,600 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	9.24 Hz
Characteristic outer ring frequency, BPF0	10.32 Hz
Characteristic inner ring frequency, BPFI	12.68 Hz

Abutment dimensions

ra max	3.5 mm
r1a max	3.3 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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