Technical data

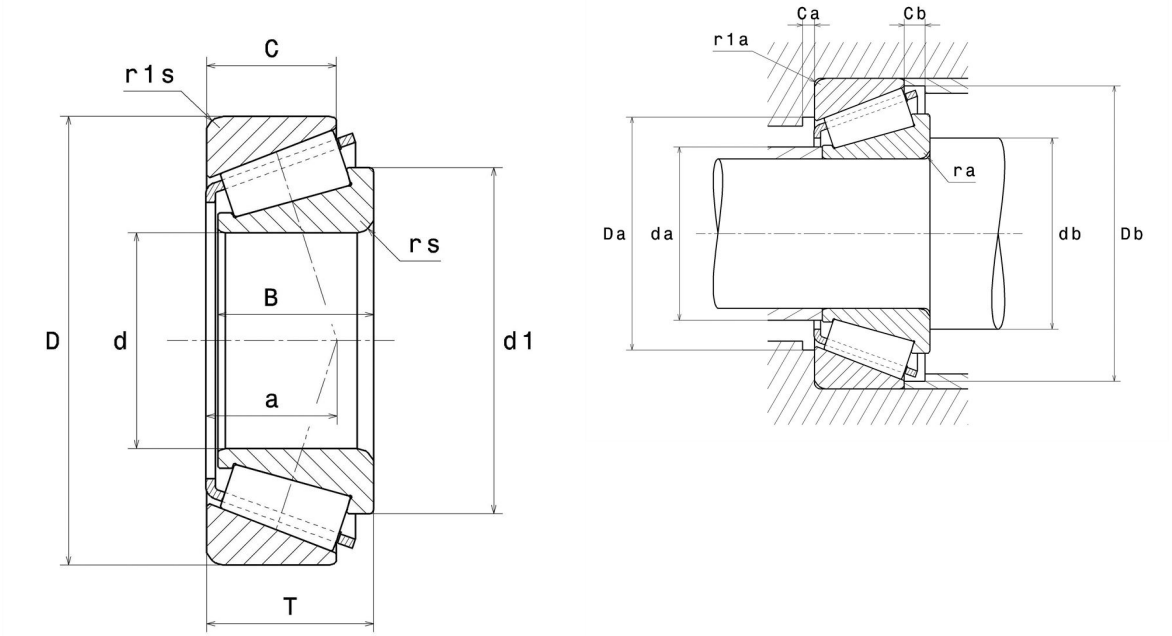
30317DU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	85 mm
D	180 mm
B	41 mm
C	28 mm
T	44.5 mm
d1	132.5 mm
a	56 mm
rs min	4 mm
r1s min	3 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	4.85 kg
ISO 355 reference	T7GB085
Brand	NTN

Product performance

Dynamic load, C	247 kN
Rating life coefficient, A2	1
Static load, C0	293 kN
Fatigue limit load, Cu	32.9 kN
Nlim (oil)	2,500 Tr/min
Nlim (grease)	1,900 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	103 mm
db min	103 mm
Da min	143 mm
Da max	166 mm
Db min	169 mm
Ca min	6 mm
Cb min	16.5 mm
ra max	3 mm
r1a max	2.5 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