Technical data

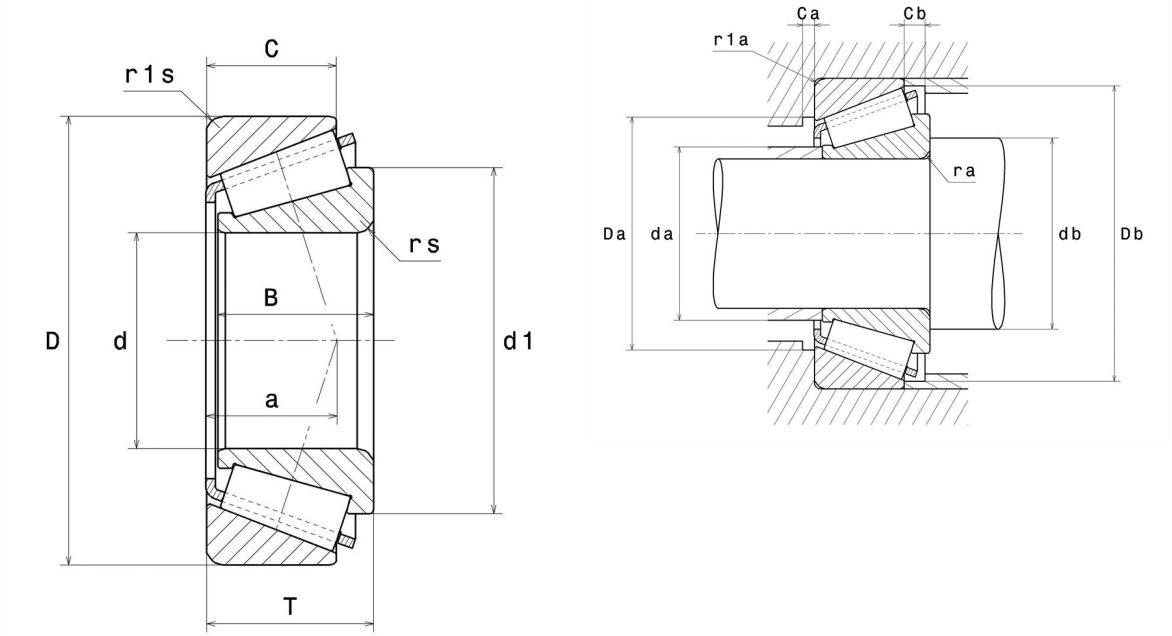
30315DU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	75 mm
D	160 mm
B	37 mm
C	26 mm
T	40 mm
d1	118.5 mm
a	50 mm
rs min	3 mm
r1s min	2.5 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	3.47 kg
ISO 355 reference	T7GB075
Brand	NTN

Product performance

Dynamic load, C	215 kN
Rating life coefficient, A2	1
Static load, C0	256 kN
Fatigue limit load, Cu	29.8 kN
Nlim (oil)	2,800 Tr/min
Nlim (grease)	2,100 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	6.76 Hz
Characteristic inner ring frequency, BPFI	9.24 Hz

Abutment dimensions

da max	91 mm
db min	89 mm
Da min	127 mm
Da max	148 mm
Db min	151 mm
Ca min	6 mm
Cb min	14 mm
ra max	2.5 mm
r1a max	2 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