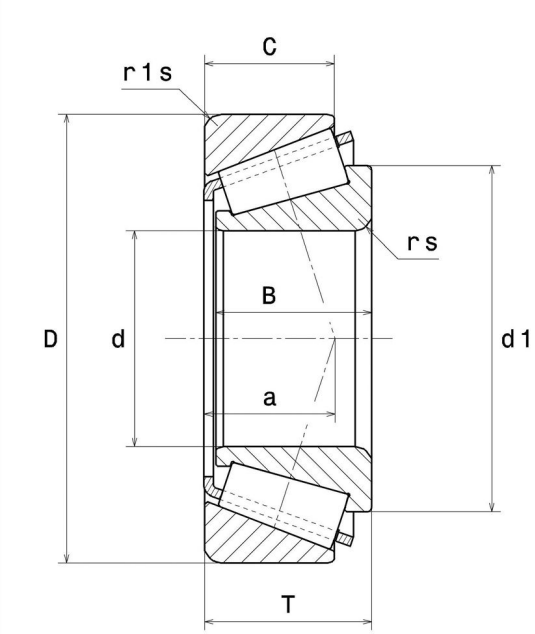
Technical data

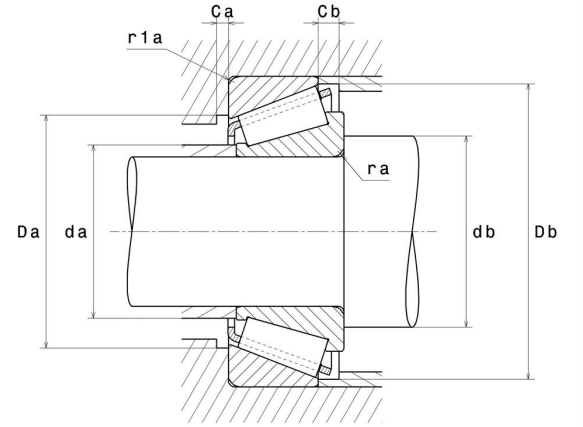
30312U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	60 mm
D	130 mm
B	31 mm
C	26 mm
T	33.5 mm
d1	93 mm
a	26.5 mm
rs min	3 mm
r1s min	2.5 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	2.06 kg
ISO 355 reference	T2FB060
Brand	NTN

Product performance

Dynamic load, C	180 kN
Rating life coefficient, A2	1
Static load, C0	210 kN
Fatigue limit load, Cu	25.6 kN
Nlim (oil)	4,000 Tr/min
Nlim (grease)	3,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPFI	9.43 Hz

Abutment dimensions

da max	77 mm
db min	74 mm
Da min	112 mm
Da max	118 mm
Db min	120 mm
Ca min	4 mm
Cb min	7.5 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