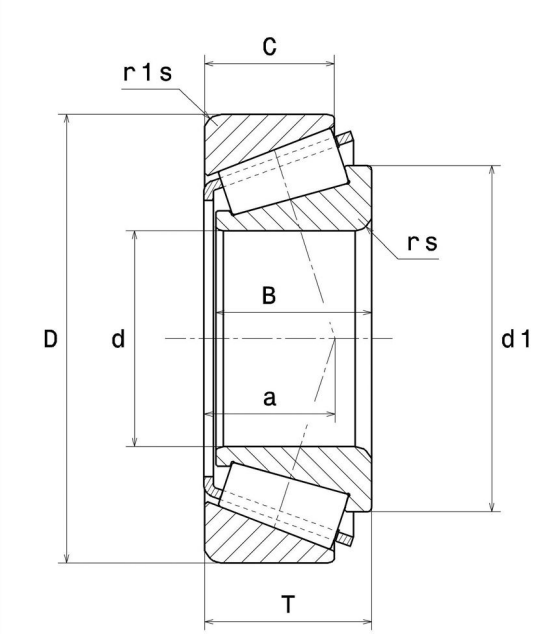
Technical data

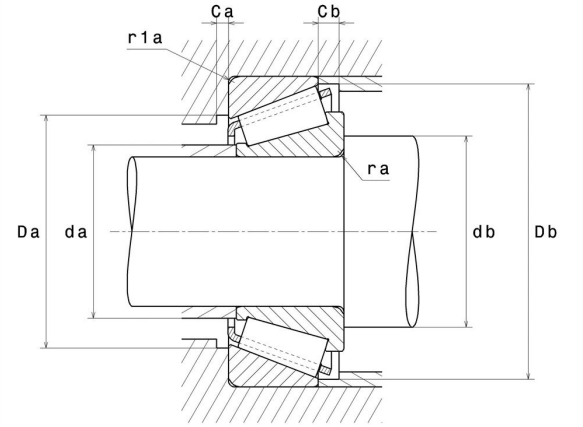
30236U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	180 mm
D	320 mm
B	52 mm
C	43 mm
T	57 mm
d1	244.5 mm
a	63 mm
rs min	5 mm
r1s min	4 mm
e	0.45
Y2	1.33
Y0	0.73
Mass	17.7 kg
ISO 355 reference	T4GB180
Brand	NTN

Product performance

Dynamic load, C	630 kN
Rating life coefficient, A2	1
Static load, C0	890 kN
Fatigue limit load, Cu	82.4 kN
Nlim (oil)	1,400 Tr/min
Nlim (grease)	1,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.15 Hz
Characteristic outer ring frequency, BPF0	9.12 Hz
Characteristic inner ring frequency, BPFI	11.88 Hz

Abutment dimensions

da max	211 mm
db min	202 mm
Da min	274 mm
Da max	302 mm
Db min	297 mm
Ca min	9 mm
Cb min	14 mm
ra max	4 mm
r1a max	3 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