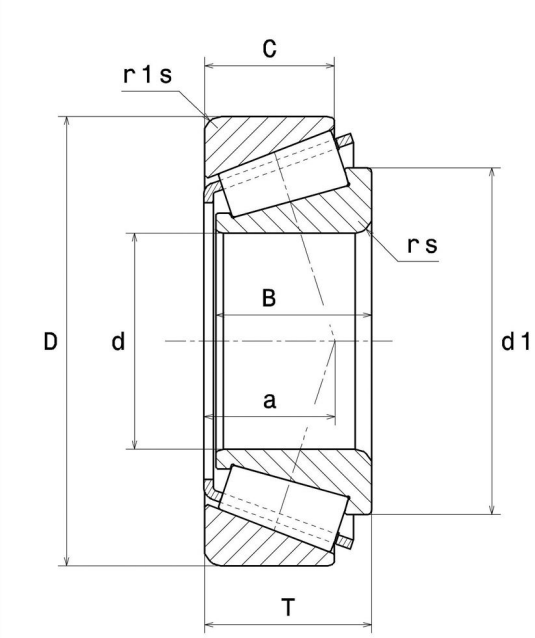
Technical data

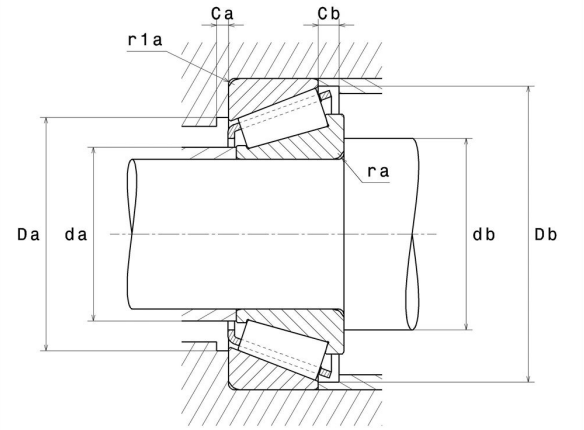
33214U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	70 mm
D	125 mm
B	41 mm
C	32 mm
T	41 mm
d1	97.5 mm
a	31 mm
rs min	2 mm
r1s min	1.5 mm
e	0.41
Y2	1.47
Y0	0.81
Mass	2.1 kg
ISO 355 reference	T3EE070
Brand	NTN

Product performance

Dynamic load, C	201 kN
Rating life coefficient, A2	1
Static load, C0	282 kN
Fatigue limit load, Cu	34.4 kN
Nlim (oil)	3,900 Tr/min
Nlim (grease)	2,900 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	6.67 Hz
Characteristic outer ring frequency, BPF0	8.15 Hz
Characteristic inner ring frequency, BPFI	10.85 Hz

Abutment dimensions

da max	79 mm
db min	80 mm
Da min	107 mm
Da max	116.5 mm
Db min	120 mm
Ca min	7 mm
Cb min	9 mm
ra max	2 mm
r1a max	1.5 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