



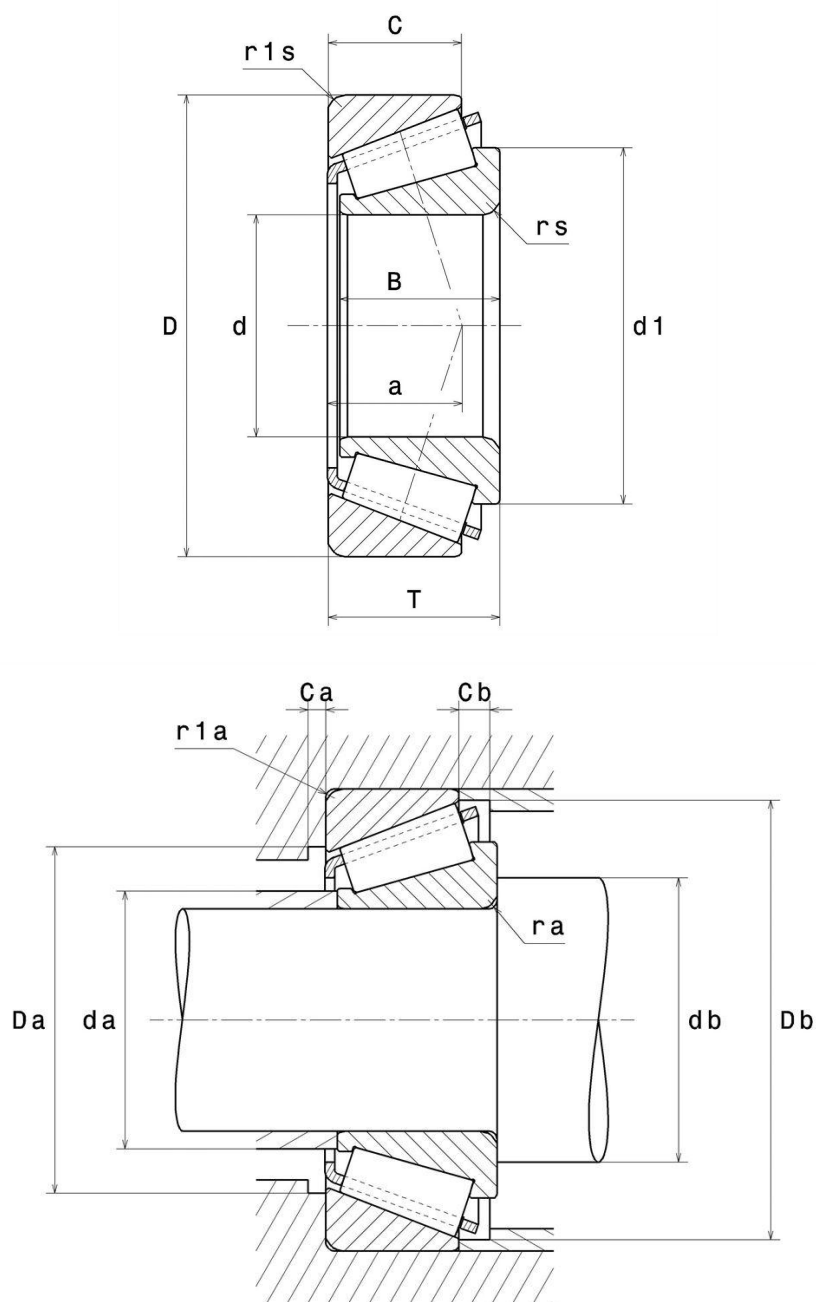
**Technical data**

**32216U**

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

**VISUAL (S)**



# 32216U

Single row tapered roller bearings

## PRODUCT DIMENSIONS

Internal diameter d	80 mm
External diameter D	140 mm
Bearing/Inner ring width(B)	33 mm
Outer ring width (C )	28 mm
Total width (T)	35,25 mm
External diameter inner ring d1	107,5 mm
Charge load application point a	31 mm
Min fillet radius rs	2,5 mm
Min fillet radius r1s	2 mm
Coef e	0.42
Upper axial load coef (Y2)	1.43
Static axial load coef (Y0)	0.79
Mass	2,17 kg
ISO 355 reference	T3EC080
Brand	NTN

## PRODUCT PERFORMANCE

Dynamic load, C	221 kN
Rating life coefficient, A2	1.0
Static load, C0	265 kN
Fatigue limit load, Cu	31,5 kN
Nlim (oil)	3400 tr/min
Nlim (grease)	2500 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.429 Hz
Characteristic rolling element frequency, BSF	6.629 Hz
Characteristic outer ring frequency, BPF0	8.577 Hz
Characteristic inner ring frequency, BPFI	11.423 Hz

## ABUTMENT

Max shoulder diameter IR da max	90 mm
Min IR shoulder diameter (db min)	92 mm

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Min shoulder diameter OR Da min	122 mm
Max shoulder diameter OR Da max	130 mm
Min OR shoulder diameter Db min	134 mm
Min clearance Ca	4 mm
Min clearance Cb	7 mm
Max fillet radius ra max	2 mm
Maxi fillet radius r1a	2 mm

## INDUSTRY CALCUL FACTORS

### Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

### Equivalent static radial load

$$Po = Xo.Fr + Yo.Fa$$

Xo	Yo
0.5	Yo

If  $Po < Fr$ , then use  $Po = Fr$

The values for e, Y2 and Yo are shown in the above table