



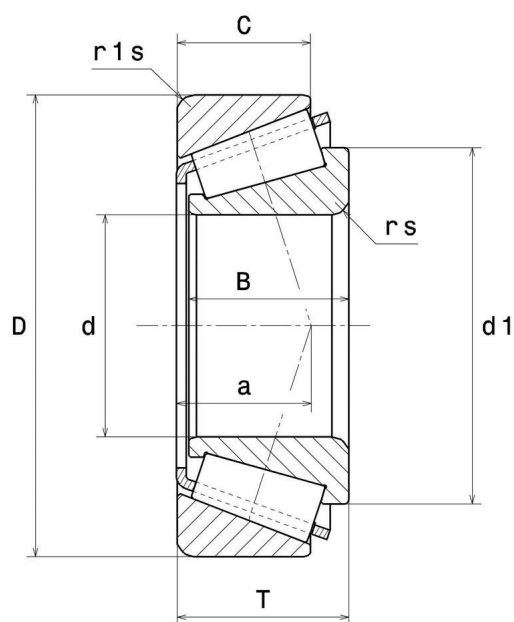
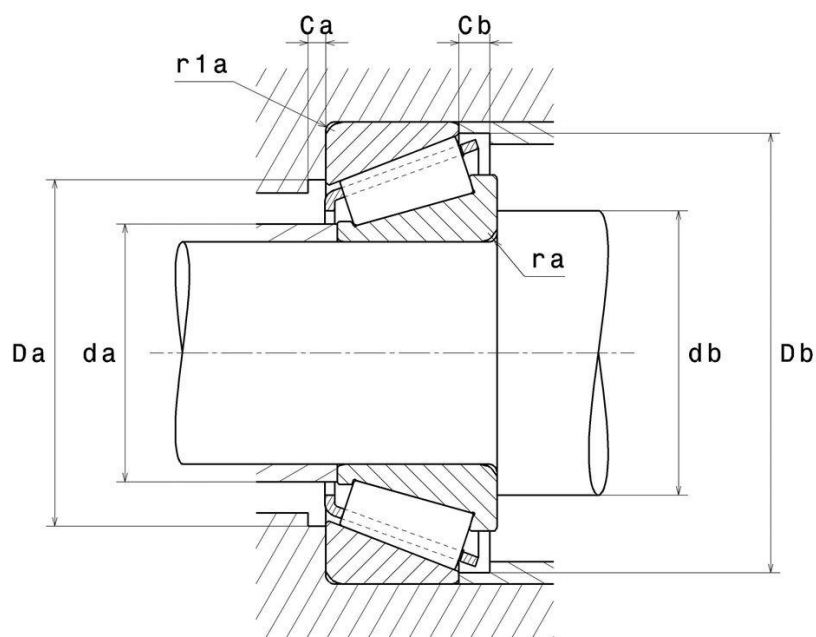
Technical data

32217U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



32217U

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter (d)	85 mm
External diameter (D)	150 mm
Bearing/Inner ring width (B)	36 mm
Outer ring width (C)	30 mm
Total width (T)	38,5 mm
External diameter inner ring d1	115 mm
Charge load application point a	33,5 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	2,75 kg
ISO 355 reference	T3EC085
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load (C)	249 kN
Rating life coefficient, A2	1.0
Static load (C0)	300 kN
Fatigue limit load (Cu)	35 kN
Nlim (oil)	3200 tr/min
Nlim (grease)	2400 tr/min
Min operating temperature (Tmin)	-40 °C

PRODUCT PERFORMANCE

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)	96 mm
Min IR shoulder diameter (db min)	97 mm
Min shoulder diameter OR Da min	130 mm
Max shoulder diameter OR (Da max)	140 mm
Min OR shoulder diameter Db min	142 mm
Min clearance Ca	5 mm
Min clearance Cb	8,5 mm
Max fillet radius ra max	2 mm
Maxi fillet radius r1a	2 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y ₂

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y ₀

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e , Y_2 and Y_0 are shown in the above table