



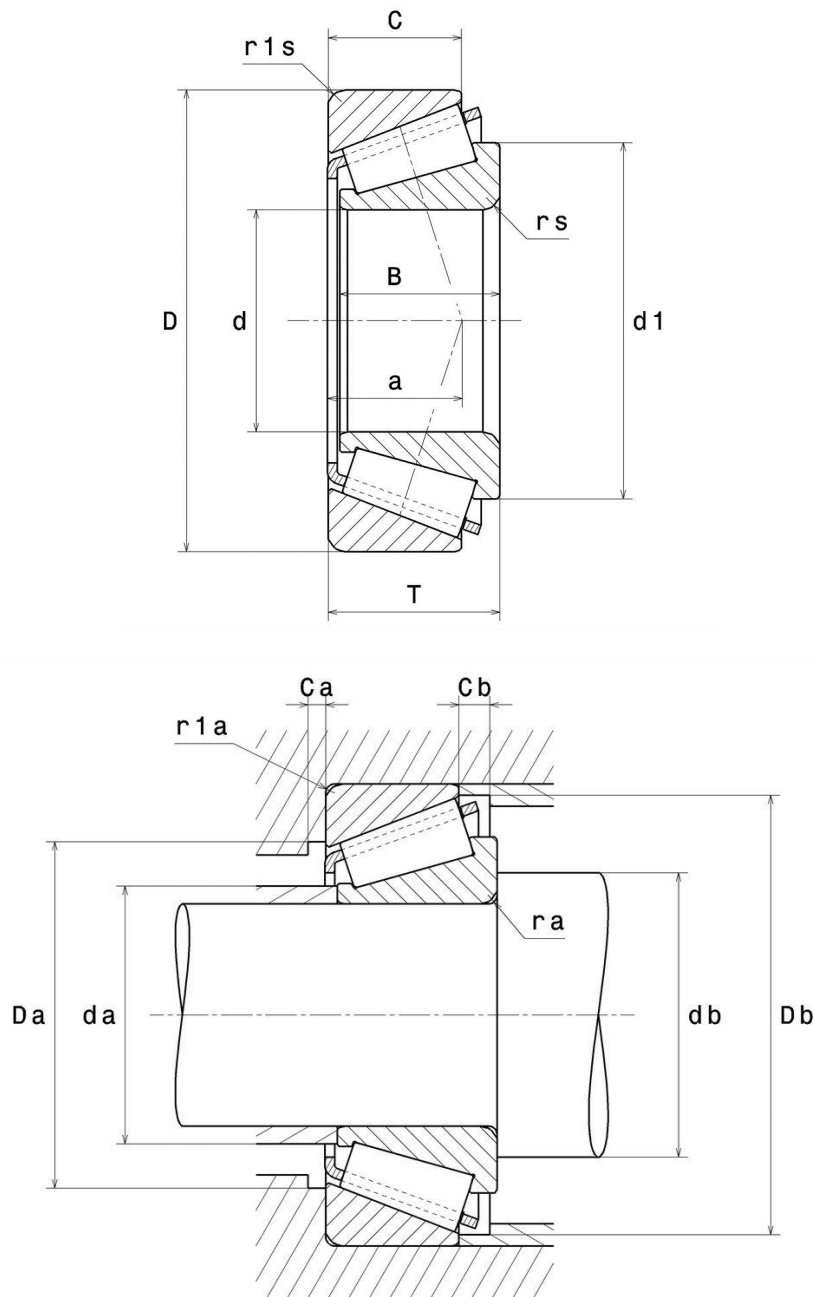
Technical data

32318U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



32318U

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter (d)	90 mm
External diameter (D)	190 mm
Bearing/Inner ring width (B)	64 mm
Outer ring width (C)	53 mm
Total width (T)	67,5 mm
External diameter inner ring d1	135,5 mm
Charge load application point a	45,5 mm
Min fillet radius (rs)	4 mm
Min fillet radius r1s	3 mm
Coef (e)	0.35
Upper axial load coef (Y2)	1.74
Static axial load coef (Y0)	0.96
Mass	8,66 kg
ISO 355 reference	T2GD090
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load (C)	500 kN
Rating life coefficient, A2	1.0
Static load (C0)	595 kN
Fatigue limit load (Cu)	65,5 kN
Nlim (oil)	2700 tr/min
Nlim (grease)	2000 tr/min
Min operating temperature (Tmin)	-40 °C

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PRODUCT PERFORMANCE

Max operating temperature (Tmax)	120 °C
Characteristic cage frequency, FTF	0.411 Hz
Characteristic rolling element frequency, BSF	5.274 Hz
Characteristic outer ring frequency, BPF0	6.158 Hz
Characteristic inner ring frequency, BPFI	8.842 Hz

ABUTMENT

Max shoulder diameter IR (da max)	108 mm
Min IR shoulder diameter (db min)	108 mm
Min shoulder diameter OR Da min	157 mm
Max shoulder diameter OR (Da max)	176 mm
Min OR shoulder diameter Db min	177 mm
Min clearance Ca	5 mm
Min clearance Cb	14,5 mm
Max fillet radius ra max	3 mm
Maxi fillet radius r1a	2,5 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, Y₂ and Y₀ are shown in the above table