



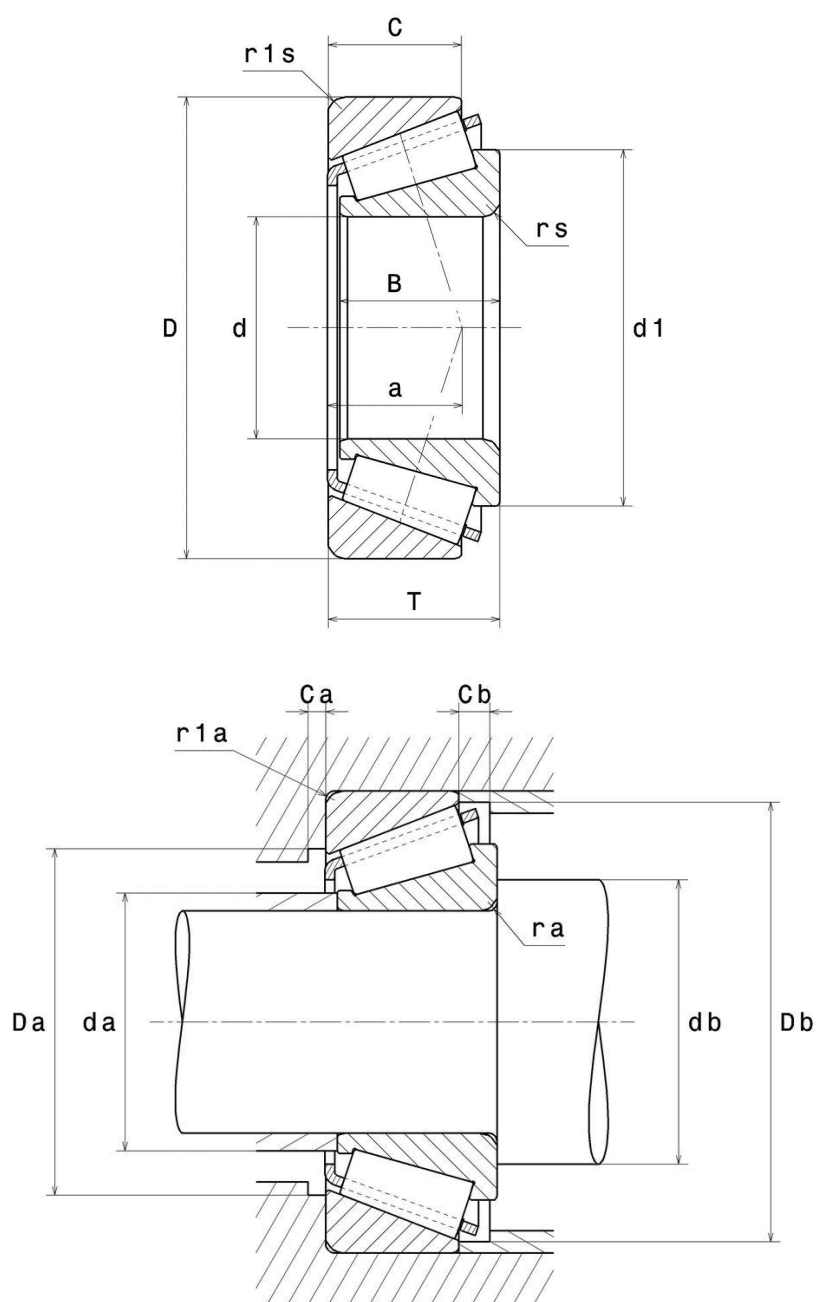
Technical data

30316DU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



30316DU

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	80 mm
D - External diameter	170 mm
B - Bearing/Inner ring width	39 mm
C - Outer ring width	27 mm
T - Total width	42,5 mm
d1 - External diameter inner ring	125,5 mm
a - Charge load application point	53,5 mm
rs - Min fillet radius	3 mm
r1s - Min fillet radius	2,5 mm
Mass	4,17 kg
ISO 355 reference	T7GB080

PRODUCT PERFORMANCE

C - Dynamic load	262 kN
C0 - Static load	283 kN
Cu - Fatigue limit load	32,5 kN
A2 - Rating life coefficient	1
e - Coefficient	0.83
Y0 - Static axial load coefficient	0.4
Y2 - Upper axial load coefficient	0.73
Nlim - Oil lubrication limit speed	2700 tr/min
Nlim - Grease lubrication limit speed	2000 tr/min
Tmin - Min operating temperature	-40 °C

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PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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ABUTMENT

da max - Max shoulder diameter IR	97 mm
db min - Min IR shoulder diameter	94 mm
Da min - Min shoulder diameter OR	134 mm
Da max - Max shoulder diameter OR	158 mm
Db min - Min OR shoulder diameter	159 mm
Ca - Min clearance	6 mm
Cb - Min clearance	15,5 mm
ra max - Max fillet radius	2,5 mm
r1a - Max fillet radius	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