

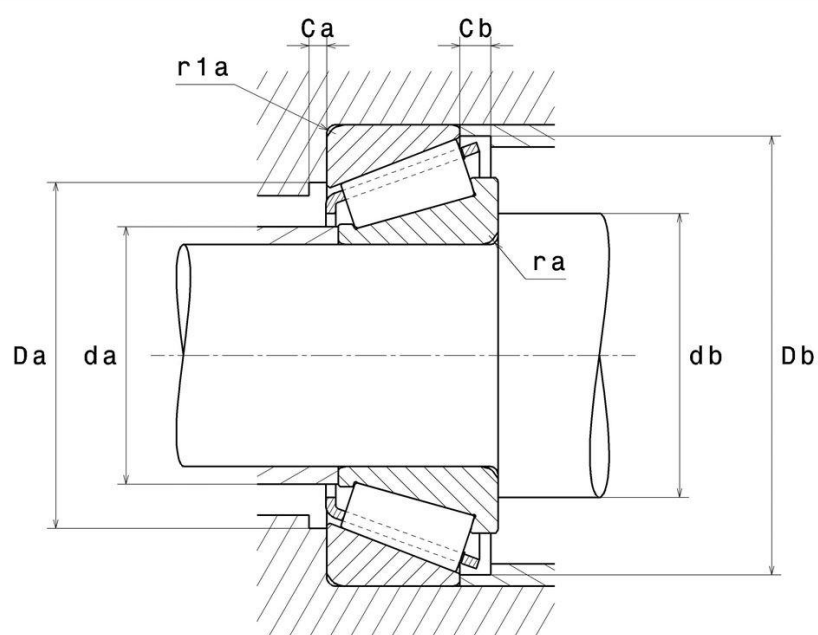
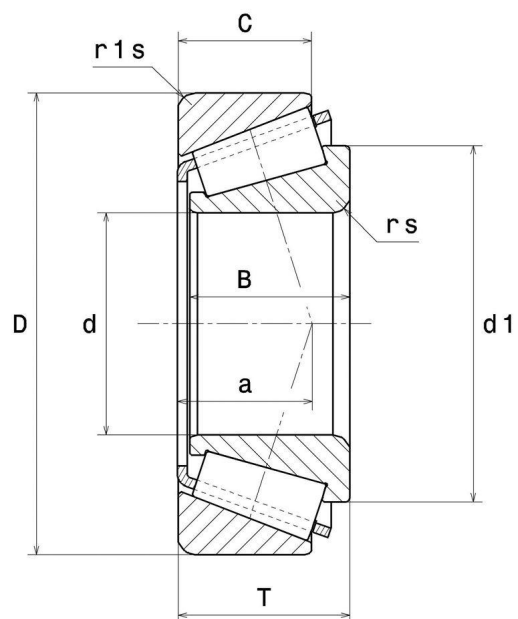
Technical data

32309CU

Single row tapered roller bearings



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	36 mm
C - Outer ring width	30 mm
T - Total width	38,25 mm
a - Charge load application point	30 mm
rs - Min fillet radius	2,5 mm
r1s - Min fillet radius	0,6 mm
Mass	1,47 kg

PRODUCT PERFORMANCE

C - Dynamic load	145000000 mN
C0 - Static load	175000000 mN
Cu - Fatigue limit load	21400000 mN
e - Coefficient	0.55
Y0 - Static axial load coefficient	0.6
Y2 - Upper axial load coefficient	1.1
N lim - Oil lubrication limit speed	30600 °/s
N lim - Grease lubrication limit speed	22800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

Da min - Min shoulder diameter OR	73,5 mm
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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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ABUTMENT

Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	95 mm
Ca - Min clearance	4 mm
Cb - Min clearance	9 mm
ra max - Max fillet radius	2,5 mm
r1a - Max fillet radius	0,6 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	Y2

Equivalent static radial load

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

X_0	Y_0
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table

