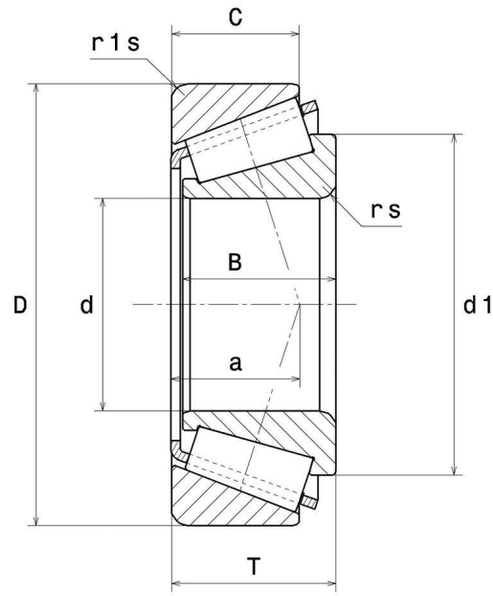
Technical data

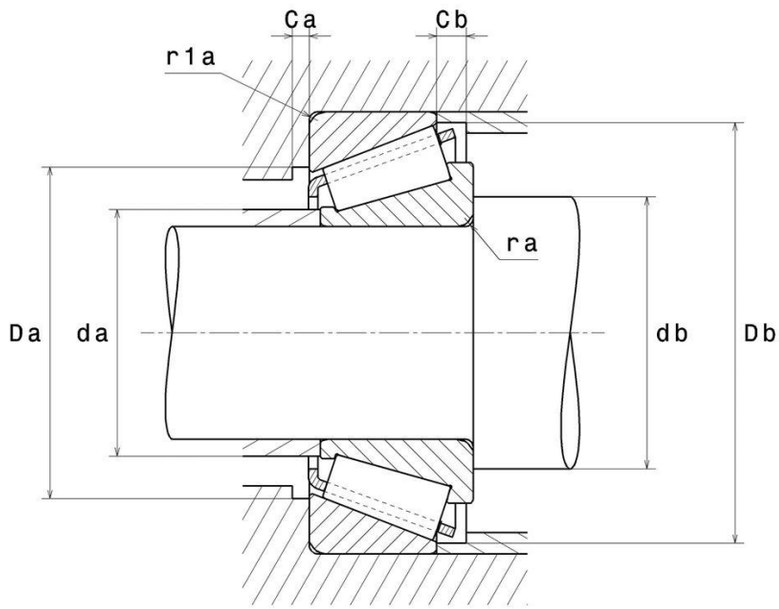
30318DU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)





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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
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

30318DU
Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	90 mm
D - External diameter	190 mm
B - Bearing/Inner ring width	43 mm
C - Outer ring width	30 mm
T - Total width	46,5 mm
d1 - External diameter inner ring	140 mm
a - Charge load application point	59 mm
rs - Min fillet radius	4 mm
r1s - Min fillet radius	3 mm
Mass	5,58 kg
ISO 355 reference	T7GB090

PRODUCT PERFORMANCE	
C - Dynamic load	300000000 mN
C0 - Static load	320000000 mN
Cu - Fatigue limit load	35500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.83
Y0 - Static axial load coefficient	0.4
Y2 - Upper axial load coefficient	0.73
N lim - Oil lubrication limit speed	14400 °/s
N lim - Grease lubrication limit speed	10800 °/s
Tmin - Min operating temperature	233,15 °K

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PRODUCT PERFORMANCE	
Tmax - Max operating temperature	393,15 °K

ABUTMENT	
da max - Max shoulder diameter IR	109 mm
db min - Min IR shoulder diameter	108 mm
Da min - Min shoulder diameter OR	151 mm
Da max - Max shoulder diameter OR	176 mm
Db min - Min OR shoulder diameter	179 mm
Ca - Min clearance	6 mm
Cb - Min clearance	16,5 mm
ra max - Max fillet radius	3 mm
r1a - Max fillet radius	2,5 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

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

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