Technical data

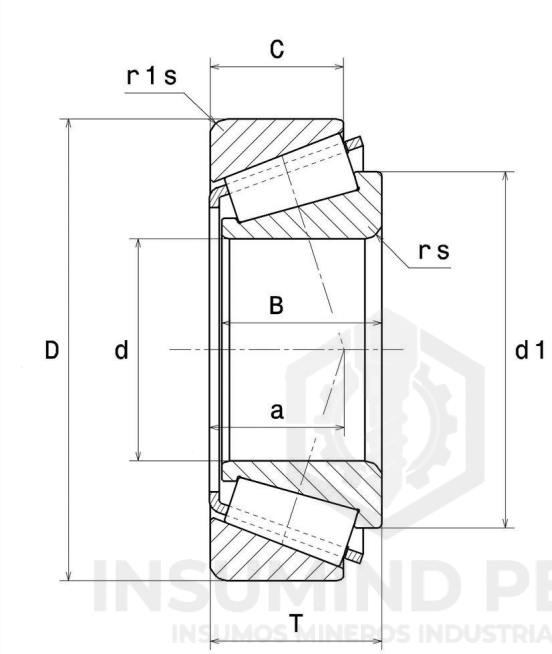
4T-30309D

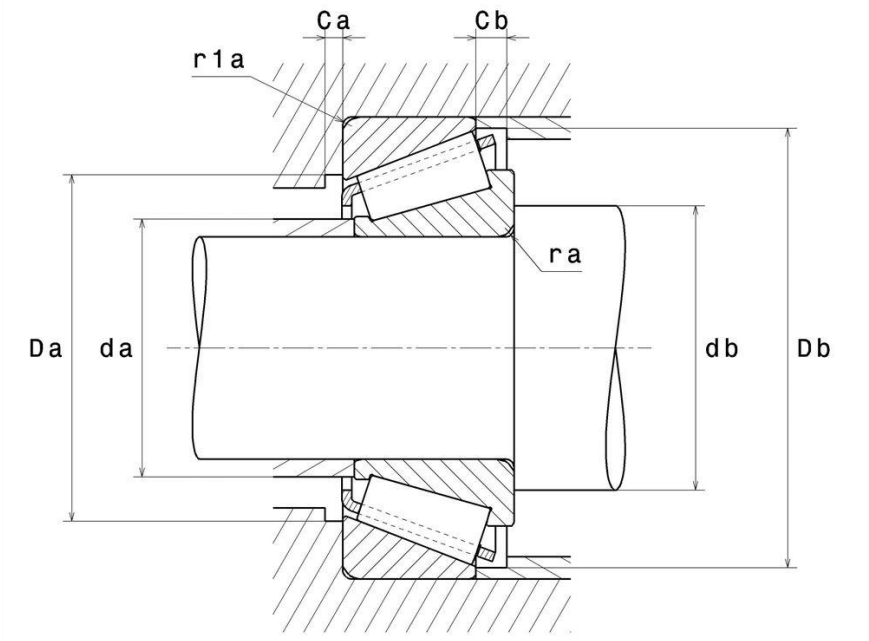
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)





INSUMIND PERÚ
INSUMOS MINEROS INDUSTRIALES

NTN Europe
1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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

4T-30309D
Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	25 mm
C - Outer ring width	18 mm
T - Total width	27,25 mm
d1 - External diameter inner ring	75 mm
a - Charge load application point	32,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	0,966 kg
ISO 355 reference	T7FB045

PRODUCT PERFORMANCE	
C - Dynamic load	106 kN
C0 - Static load	109 kN
Cu - Fatigue limit load	13,3 kN
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	4600 tr/min
N lim - Grease lubrication limit speed	3500 tr/min
Tmin - Min operating temperature	-40 °C

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4T-30309D
Single row tapered roller bearings

PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

ABUTMENT	
da max - Max shoulder diameter IR	56 mm
db min - Min IR shoulder diameter	55 mm
Da min - Min shoulder diameter OR	79 mm
Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	96 mm
Ca - Min clearance	3 mm
Cb - Min clearance	9 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

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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

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