

Technical data

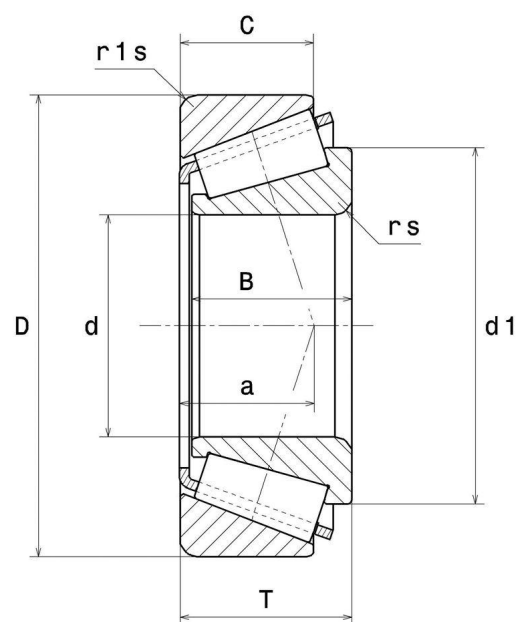
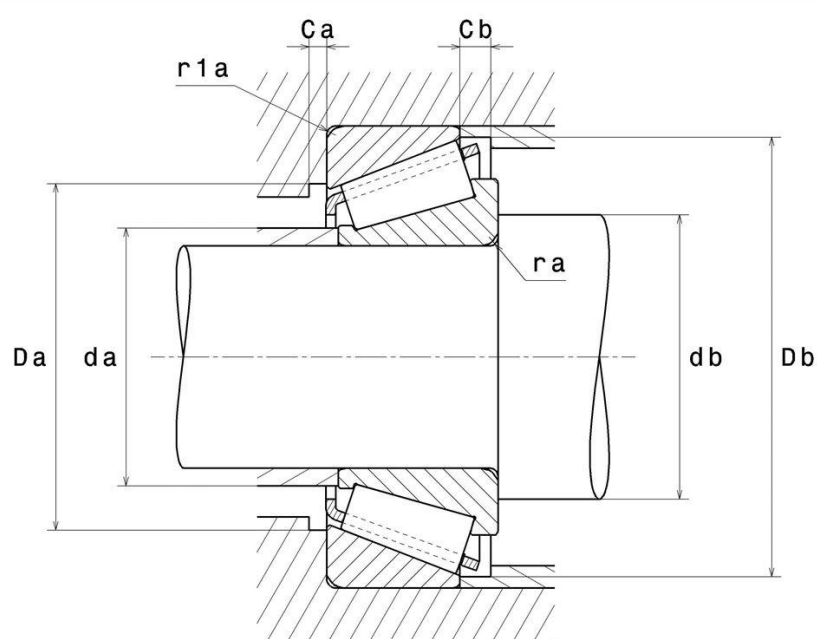
32309A

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



32309A

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	SNR
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
d1 - External diameter inner ring	71,1 mm
a - Charge load application point	25,6 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,403 kg
ISO 355 reference	T2FD045

PRODUCT PERFORMANCE

C - Dynamic load	159 kN
A2 - Rating life coefficient	1
C0 - Static load	190 kN
Cu - Fatigue limit load	23,2 kN
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.96
Y2 - Upper axial load coefficient	1.74
N ref - Reference thermal speed	5000 tr/min
N lim - Mechanical Limit Speed	7300 tr/min
Tmin - Min operating temperature	-40 °C



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

PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.567 Hz
BPFI - Over rolling frequency on inner (60 rpm)	9.433 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.266 Hz
BRF - Fréquence de rotation : Élément roulant	2.633 Hz
FTF - Rotational frequency - cage (60 rpm)	0.41 Hz

ABUTMENT

da max - Max shoulder diameter IR	56 mm
db min - Min IR shoulder diameter	55 mm
Da min - Min shoulder diameter OR	82 mm
Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	93 mm
Ca - Min clearance	3 mm
Cb - Min clearance	8 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Reference	32309A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
- Contact angle	12.953 °

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

Xo	Yo
0.5	Yo

If $Po \leq Fr$, then use $Po = Fr$

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