

Technical data

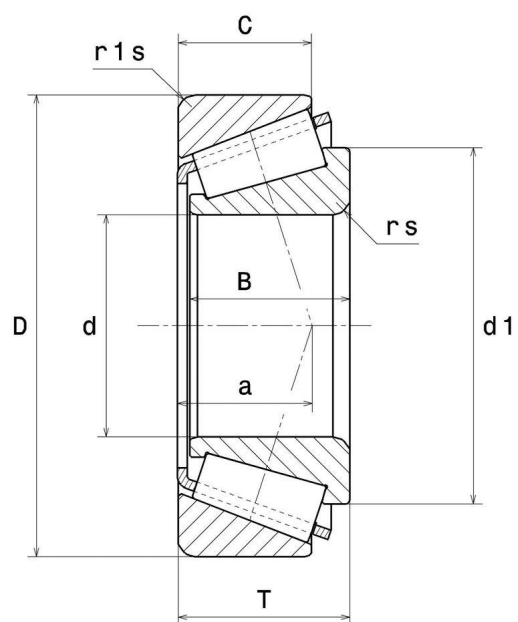
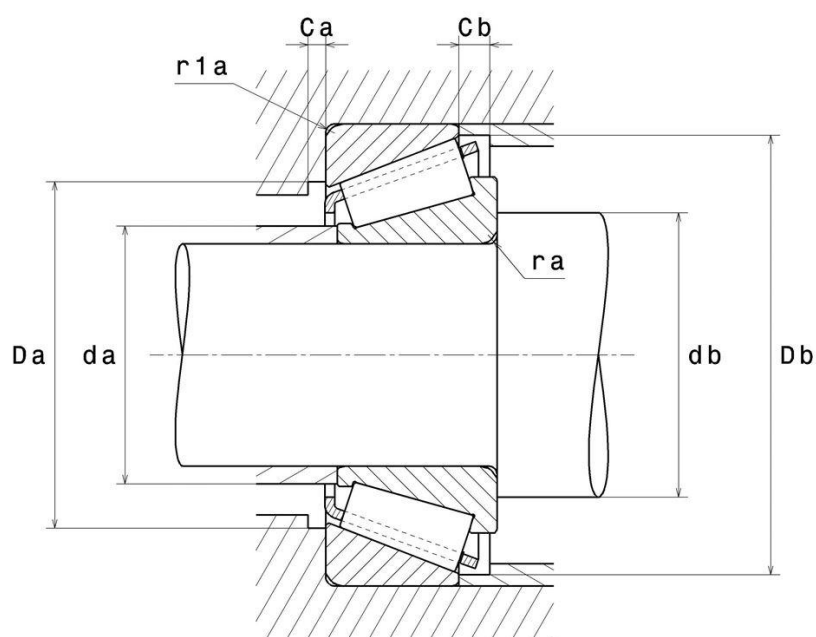
32209A

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



32209A

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	45 mm
D - External diameter	85 mm
B - Bearing/Inner ring width	23 mm
C - Outer ring width	19 mm
T - Total width	24,75 mm
d1 - External diameter inner ring	64,4 mm
a - Charge load application point	20,1 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,575 kg
ISO 355 reference	T3DC045

PRODUCT PERFORMANCE

C - Dynamic load	88,3 kN
A2 - Rating life coefficient	1
C0 - Static load	104 kN
Cu - Fatigue limit load	12,7 kN
e - Coefficient	0.4
Y0 - Static axial load coefficient	0.81
Y2 - Upper axial load coefficient	1.48
N ref - Reference thermal speed	4800 tr/min
N lim - Mechanical Limit Speed	8500 tr/min
Tmin - Min operating temperature	-40 °C



NTN Europe

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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

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PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	7.659 Hz
BPFI - Over rolling frequency on inner (60 rpm)	10.341 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	6.338 Hz
BRF - Fréquence de rotation : Élément roulant	3.169 Hz
FTF - Rotational frequency - cage (60 rpm)	0.426 Hz

ABUTMENT

da max - Max shoulder diameter IR	53 mm
db min - Min IR shoulder diameter	53,5 mm
Da min - Min shoulder diameter OR	73 mm
Da max - Max shoulder diameter OR	76,5 mm
Db min - Min OR shoulder diameter	81 mm
Ca - Min clearance	3 mm
Cb - Min clearance	5,5 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Reference	32209A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



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ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
- Contact angle	15.109 °

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

