Brand of NTN corporation

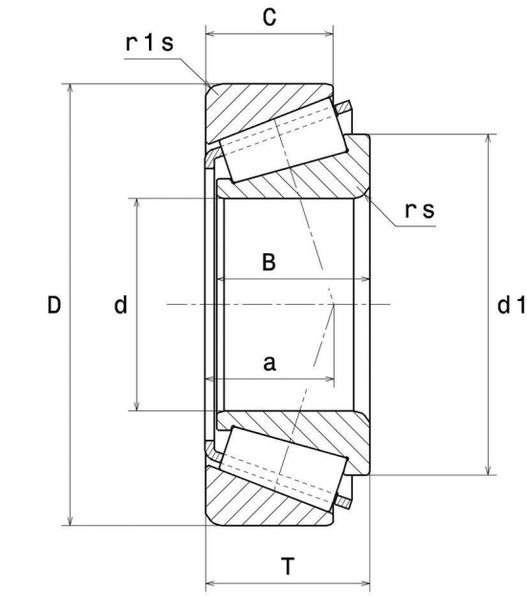
Technical data

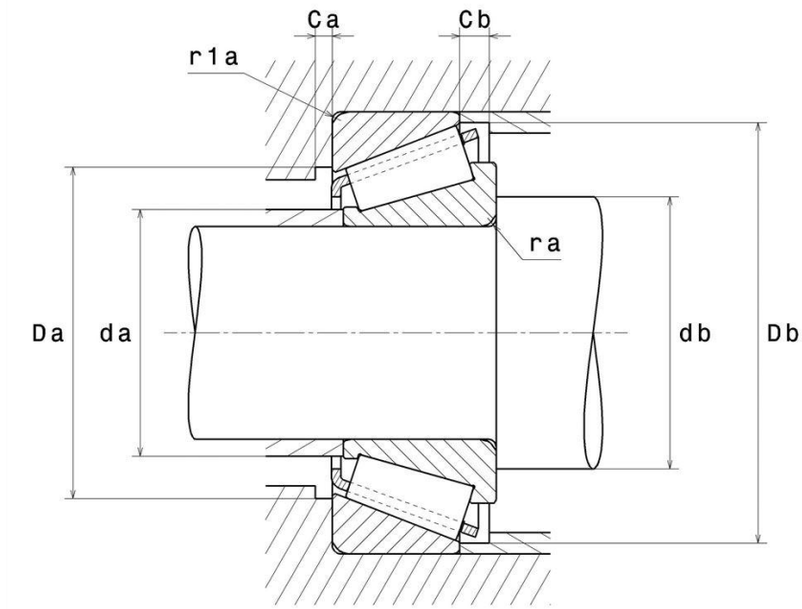
32210.A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)





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

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	50 mm
D - External diameter	90 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	68,8 mm
a - Charge load application point	21,1 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,625 kg
ISO 355 reference	T3DC050

PRODUCT PERFORMANCE	
C - Dynamic load	90,7 kN
A2 - Rating life coefficient	1
C0 - Static load	108 kN
Cu - Fatigue limit load	13,2 kN
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.79
Y2 - Upper axial load coefficient	1.43
N ref - Reference thermal speed	4500 tr/min
N lim - Mechanical Limit Speed	7900 tr/min
Tmin - Min operating temperature	-40 °C

PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	7.72 Hz
BPFI - Over rolling frequency on inner (60 rpm)	10.281 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	6.631 Hz
BRF - Rotational frequency – rolling element (60 rpm)	3.316 Hz
FTF - Rotational frequency - cage (60 rpm)	0.429 Hz

ABUTMENT	
da max - Max shoulder diameter IR	58 mm
db min - Min IR shoulder diameter	58,5 mm
Da min - Min shoulder diameter OR	78 mm
Da max - Max shoulder diameter OR	81,5 mm
Db min - Min OR shoulder diameter	85 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

OE EQUIVALENTS	
Manufacturer	**Part number**
Mazda	54027350
Mercedes	0019818905 | 0059815305 | 0079815505 | A0019818905 | A0059815305 | A0079815505
Nissan	40210-0T100
Volkswagen	291501319B

AUTOMOTIVE COMPATIBILITY					
Brand	**Model**	**Generation**	**Date**	**Location**	**Position**
Mazda	BONGO	BONGO	12/1987 => 03/1995	Right	Rear
Mazda	BONGO	BONGO	02/1988 => 07/1989	Droit	Train arrière
Mercedes	SERIE L	SERIE L I	09/1988 => 02/1996	Droit,Gauche	Rear
Mercedes	SERIE L	SERIE L I	09/1988 => 02/1996	Droit,Gauche	Train arrière
Mercedes	SPRINTER	SPRINTER I	02/1995 => 02/2006	Right,Left	Rear
Mercedes	SPRINTER	SPRINTER I	02/1995 => 02/2006	Droit,Gauche	Train arrière
Mercedes	SPRINTER	SPRINTER I	02/1995 => 02/2006	Left,Right	Train arrière
Mercedes	SPRINTER	SPRINTER I	02/1996 => 02/2006	Right,Left	Train arrière
Mercedes	SPRINTER	SPRINTER I	11/1999 => 02/2006		
Mercedes	SPRINTER	SPRINTER I	11/1999 => 02/2006	Left,Right	Rear
Mercedes	SPRINTER SERIES	SPRINTER SERIES	02/1995 => 02/2006	Droit,Gauche	Rear
Mercedes	T1	T1 I	06/1981 => 02/1996	Right,Left	Rear
Mercedes	T1	T1 I	03/1982 => 01/1990	Droit,Gauche	Rear
Mercedes	T1-400-SERIES	T1-400-SERIES	03/1982 => 01/1990	Droit,Gauche	Train arrière
Mercedes	T1-400-SERIES	T1-400-SERIES	03/1982 => 02/1996	Droit,Gauche	Rear
Volkswagen	LT	LT	08/1985 => 07/1991	Droit,Gauche	Rear
Volkswagen	LT	LT	08/1985 => 07/1991	Droit,Gauche	Train arrière
Volkswagen	LT	LT I	12/1982 => 07/1992	Right	Train arrière
Volkswagen	LT	LT I	12/1982 => 12/1995	Right	Rear
Volkswagen	LT	LT II	05/1996 => 07/2006	Droit	Rear

AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
Volkswagen	LT	LT II	05/1996 => 07/2006	Right	Rear
Volkswagen	LT	LT II	01/1999 => 07/2006	Droit	Train arrière
Volkswagen	LT	LT II	05/1999 => 05/2003	Right	Train arrière

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

$Po = Xo.Fr + Yo.Fa$

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