

Technical data

32019XU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



32019XU

Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	95 mm
D - External diameter	145 mm
B - Bearing/Inner ring width	32 mm
C - Outer ring width	24 mm
T - Total width	32 mm
d1 - External diameter inner ring	121 mm
a - Charge load application point	31,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,85 kg
ISO 355 reference	T4CC095

PRODUCT PERFORMANCE	
C - Dynamic load	190000000 mN
C0 - Static load	280000000 mN
Cu - Fatigue limit load	32500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.44
Y0 - Static axial load coefficient	0.75
Y2 - Upper axial load coefficient	1.36
N lim - Oil lubrication limit speed	18600 °/s
N lim - Grease lubrication limit speed	13800 °/s
Tmin - Min operating temperature	233,15 °K



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

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PRODUCT PERFORMANCE

Tmax - Max operating temperature	393,15 °K
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ABUTMENT

da max - Max shoulder diameter IR	105 mm
db min - Min IR shoulder diameter	105 mm
Da min - Min shoulder diameter OR	130 mm
Da max - Max shoulder diameter OR	136,5 mm
Db min - Min OR shoulder diameter	140 mm
Ca - Min clearance	6 mm
Cb - Min clearance	8 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

OE EQUIVALENTS

Manufacturer	Part number
Arvin Meritor	21265587
DAF	0621286 0622103
DAF, Leyland	AMPA012
MAN	06.32489-0012 06.32489-0064 06.32489-0114 06.32489-0115
Mercedes	001 980 2602 002 981 5405 006 981 4705
Renault Trucks	5000682662 5010241096 5010439224 5010534822 5010587011
Scania	1408175
Volvo	20593429 6210074

AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
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AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
DAF	65	65	03/1993 => 02/1998		Front
DAF	65 CF	65 CF	02/1998 => 12/2000		Front
MAN	E2000	E2000	05/2000 =>		Front
MAN	E2000	E2000	05/2000 =>		Rear
MAN	EL	EL	01/1993 =>		Rear
MAN	F2000	F2000	01/1994 =>		
MAN	F2000	F2000	01/1994 =>		Front
MAN	F2000	F2000	01/1994 =>		Front,Rear
MAN	F2000	F2000	06/1998 =>		Rear
MAN	F90	F90	07/1986 => 06/1996		Rear
MAN	F90	F90	09/1987 => 12/1997		Front
MAN	F90 Unterflur	F90 Unterflur	07/1986 => 01/1991		Rear
MAN	HOCL	HOCL	01/1979 => 09/1996		Rear
MAN	L2000	L2000	10/1993 =>		Rear
MAN	L2000	L2000	05/1994 =>		
MAN	L2000	L2000	05/1994 =>		Front
MAN	M 2000 L	M 2000 L	08/1995 =>		Front
MAN	M 2000 L	M 2000 L	08/1995 =>		Front,Rear
MAN	M 2000 L	M 2000 L	06/1998 =>		Rear,Front
MAN	M 2000 L	M 2000 L	05/2001 =>		Rear
MAN	M 2000 M	M 2000 M	08/1995 => 12/2005		Front



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AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
MAN	M 2000 M	M 2000 M	08/1995 => 12/2005		Front,Rear
MAN	M 2000 M	M 2000 M	06/1998 => 12/2005		Rear
MAN	M 2000 M	M 2000 M	06/1998 => 12/2005		Rear,Front
MAN	M90	M90	08/1988 => 06/1996		Rear
MAN	M90	M90	02/1989 => 06/1996		Front
MAN	NG	NG	08/1992 =>		Rear
MAN	NL	NL	09/1989 =>		Rear
MAN	SL	SL	05/1980 => 04/1987		Rear
MAN	SR	SR	10/1975 => 11/1986		Rear
MAN	SÜ	SÜ	11/1982 => 06/1997		Rear
MAN	TGA	TGA	10/2000 =>		Rear
MAN	TGA	TGA	02/2002 =>		Front
MAN	TGA	TGA	09/2002 =>		Front,Rear
MAN	TGA	TGA	09/2002 =>		Rear,Front
MAN	TGM I	TGM I	10/2005 =>		Front
MAN	TGS I	TGS I	09/2007 =>		Front
MAN	TGS I	TGS I	06/2008 =>		Rear,Front
MAN	TGS I	TGS I	09/2016 =>		Front,Rear
Mercedes	CONECTO (O 345)	CONECTO (O 345)	11/2001 =>		Rear
Mercedes	LK/LN2	LK/LN2	01/1984 => 12/1998		Rear
Mercedes	MK	MK	12/1987 => 09/1996		



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Brand	Model	Generation	Date	Location	Position
Mercedes	MK	MK	12/1987 => 09/1996		Rear
Mercedes	NG	NG	08/1973 => 08/1994		Front
Mercedes	NG	NG	08/1973 => 09/1996		Rear
Mercedes	O 305	O 305	04/1973 => 05/1987		Rear
Mercedes	O 307	O 307	04/1973 => 08/1987		Rear
Mercedes	O 405	O 405	12/1984 =>		Rear
Mercedes	O 407	O 407	03/1987 => 11/2001		Rear
Mercedes	O 408	O 408	01/1991 => 12/1998		Rear
Mercedes	SK	SK	07/1987 => 09/1996		Front
Mercedes	SK	SK	07/1987 => 09/1996		Rear
Renault Trucks	C	C	04/1987 => 10/1998		Rear
Renault Trucks	D	D	01/2013 =>		Rear
Renault Trucks	KERAX	KERAX	06/1997 =>		Rear
Renault Trucks	MAGNUM	MAGNUM	02/1992 =>		Rear
Renault Trucks	MANAGER	MANAGER	09/1991 => 10/1996		Rear
Renault Trucks	MAXTER	MAXTER	10/1992 => 06/1997		Rear
Renault Trucks	MIDLINER	MIDLINER	05/1983 => 01/2000		Rear
Renault Trucks	MIDLUM	MIDLUM	01/2000 =>		Rear
Renault Trucks	PREMIUM	PREMIUM	04/1996 =>		Rear
Volvo	FL	FL	03/2000 =>		Rear
Volvo	FL II	FL II	05/2006 =>		Rear



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AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
Volvo	FL III	FL III	05/2013 =>		Rear

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