

Technical data

32018XU

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



32018XU

Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	90 mm
D - External diameter	140 mm
B - Bearing/Inner ring width	32 mm
C - Outer ring width	24 mm
T - Total width	32 mm
d1 - External diameter inner ring	115,5 mm
a - Charge load application point	30 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,78 kg
ISO 355 reference	T3CC090

PRODUCT PERFORMANCE	
C - Dynamic load	187000000 mN
C0 - Static load	270000000 mN
Cu - Fatigue limit load	31500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.78
Y2 - Upper axial load coefficient	1.42
N lim - Oil lubrication limit speed	19800 °/s
N lim - Grease lubrication limit speed	15000 °/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

PRODUCT PERFORMANCE

Tmax - Max operating temperature	393,15 °K
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ABUTMENT

da max - Max shoulder diameter IR	100 mm
db min - Min IR shoulder diameter	100 mm
Da min - Min shoulder diameter OR	125 mm
Da max - Max shoulder diameter OR	131,5 mm
Db min - Min OR shoulder diameter	134 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
Iveco	7162944
MAN	06.32489.0011 06.32489.0051
Mercedes	004 981 17 05 004 981 43 05 005 981 56 05 006 981 00 05
Renault Trucks	5000254793 5010439301

AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
Iveco	EUROCARGO I-III	EUROCARGO I-III	01/1991 => 09/2015		
Iveco	EUROCARGO I-III	EUROCARGO I-III	01/1991 => 09/2015		Front
MAN	L2000	L2000	05/1994 =>		
MAN	L2000	L2000	01/1995 =>		Rear



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AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
MAN	M 2000 L	M 2000 L	08/1995 =>		Rear
MAN	M 2000 L	M 2000 L	11/2002 =>		
MAN	M 2000 M	M 2000 M	08/1995 => 12/2005		Rear
MAN	M90	M90	05/1990 => 06/1996		Rear
Mercedes	ATEGO	ATEGO	01/1998 => 10/2004		Rear
Mercedes	ATEGO 2	ATEGO 2	10/2004 =>		Rear
Mercedes	ATEGO 3	ATEGO 3	04/2013 =>		Rear
Mercedes	LK/LN2	LK/LN2	08/1984 => 12/1998		Rear
Renault Trucks	MIDLINER	MIDLINER	11/1992 =>		Front
Renault Trucks	MIDLUM	MIDLUM	10/2001 =>		Front



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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

