



Technical data

4T-33210

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

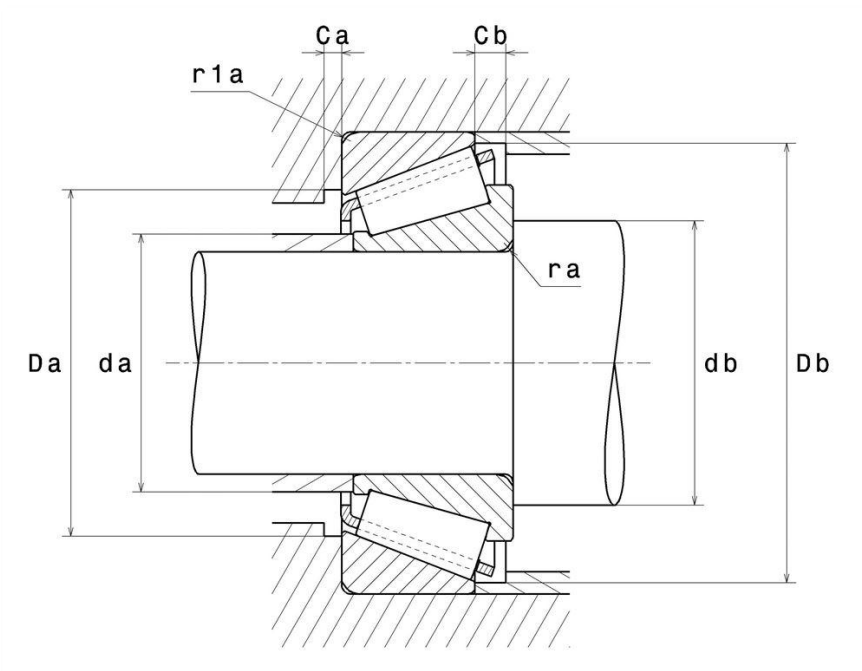
KIT CONTENT

4T-33210

VISUAL (S)



4T-33210
Single row tapered roller bearings



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	50 mm
D - External diameter	90 mm
B - Bearing/Inner ring width	32 mm
C - Outer ring width	24,5 mm
T - Total width	32 mm
d1 - External diameter inner ring	70,5 mm
a - Charge load application point	23,5 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,862 kg
ISO 355 reference	T3DE050

PRODUCT PERFORMANCE



4T-33210

Single row tapered roller bearings

PRODUCT PERFORMANCE

C - Dynamic load	127000000 mN
C0 - Static load	158000000 mN
Cu - Fatigue limit load	19300000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.41
Y0 - Static axial load coefficient	0.8
Y2 - Upper axial load coefficient	1.45
N lim - Oil lubrication limit speed	31800 °/s
N lim - Grease lubrication limit speed	24000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da max - Max shoulder diameter IR	57 mm
db min - Min IR shoulder diameter	58,5 mm
Da min - Min shoulder diameter OR	77 mm
Da max - Max shoulder diameter OR	81,5 mm
Db min - Min OR shoulder diameter	87 mm
Ca - Min clearance	5 mm
Cb - Min clearance	7,5 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

OE EQUIVALENTS

Manufacturer	Part number
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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

OE EQUIVALENTS	
Manufacturer	Part number
Mercedes	002 981 79 05 011 981 60 05
ZF	0635.376.008

AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
Mercedes	ATEGO	ATEGO	01/1998 => 10/2004		Front
Mercedes	ATEGO 2	ATEGO 2	10/2004 =>		Front
Mercedes	ATRON	ATRON	04/2013 =>		Front
Mercedes	LK/LN2	LK/LN2	01/1984 => 12/1998		Front
Mercedes	MK	MK	12/1987 => 09/1996		
Mercedes	MK	MK	12/1987 => 09/1996		Front
Mercedes	NG	NG	08/1973 => 09/1996		Front
Mercedes	O 302	O 302	05/1969 => 12/1974		Front
Mercedes	O 303	O 303	10/1974 => 09/1992		Front
Mercedes	O 305	O 305	04/1973 => 05/1987		Front
Mercedes	O 307	O 307	04/1973 => 08/1987		Front
Mercedes	O 340	O 340	01/1991 => 08/1995		Front
Mercedes	O 340	O 340	01/1991 =>		
Mercedes	O 403	O 403	09/2003 =>		Front
Mercedes	O 404	O 404	01/1991 => 12/1999		Front
Mercedes	O 405	O 405	12/1984 =>		Front
Mercedes	O 407	O 407	03/1987 => 11/2001		Front



AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
Mercedes	O 408	O 408	01/1991 => 12/1998		Front
Mercedes	OF	OF	01/1983 =>		Front
Mercedes	OH	OH	01/1970 =>		
Mercedes	OH	OH	01/1970 =>		Front
Mercedes	SK	SK	07/1987 => 09/1996		Front
Mercedes	TOURISMO (O 350)	TOURISMO (O 350)	08/1995 =>		Front
Mercedes	TOURO (O 500)	TOURO (O 500)	01/2001 =>		Front

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

