

Technical data

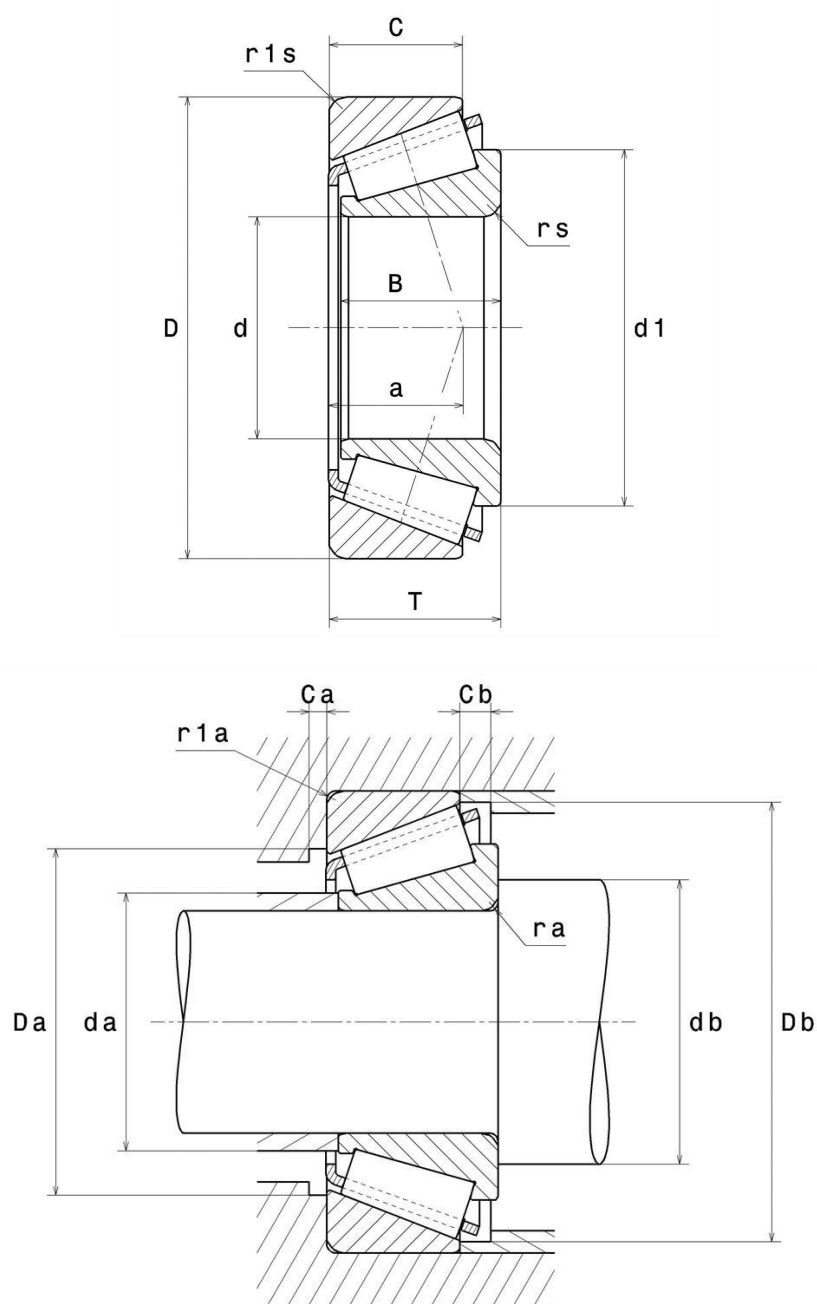
33220U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	180 mm
B - Bearing/Inner ring width	63 mm
C - Outer ring width	48 mm
T - Total width	63 mm
a - Charge load application point	45,5 mm
rs - Min fillet radius	3 mm
r1s - Min fillet radius	2,5 mm
Mass	6,76 kg
ISO 355 reference	T3FE100

PRODUCT PERFORMANCE

C - Dynamic load	465000000 mN
C0 - Static load	650000000 mN
Cu - Fatigue limit load	71500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.4
Y0 - Static axial load coefficient	0.82
Y2 - Upper axial load coefficient	1.48
N lim - Oil lubrication limit speed	16200 °/s
N lim - Grease lubrication limit speed	12000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



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
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ABUTMENT	
da max - Max shoulder diameter IR	114 mm
db min - Min IR shoulder diameter	113 mm
Da min - Min shoulder diameter OR	147 mm
Da max - Max shoulder diameter OR	168 mm
Db min - Min OR shoulder diameter	173 mm
ra max - Max fillet radius	2,5 mm
r1a - Max fillet radius	2 mm

OE EQUIVALENTS	
Manufacturer	Part number
MAN	06.32499.0097
Mercedes	003 981 45 05 004 981 10 05 008 981 34 05

AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
MAN	F2000	F2000	01/1994 =>		
MAN	F2000	F2000	01/1994 =>		Rear
MAN	TGA	TGA	04/2000 =>		Rear
Mercedes	ACTROS	ACTROS	04/1996 =>		Rear
Mercedes	ACTROS MP2 / MP3	ACTROS MP2 / MP3	10/2002 =>		Rear
Mercedes	AROCS	AROCS	01/2013 =>		Rear
Mercedes	ATEGO	ATEGO	01/1998 => 10/2004		Rear
Mercedes	ATEGO 2	ATEGO 2	10/2004 =>		Rear
Mercedes	AXOR	AXOR	01/2002 => 10/2004		Rear



AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
Mercedes	AXOR 2	AXOR 2	10/2004 =>		Rear
Mercedes	LK/LN2	LK/LN2	01/1984 => 12/1998		Rear
Mercedes	MK	MK	07/1993 => 09/1996		Rear
Mercedes	NG	NG	08/1973 => 09/1996		Rear
Mercedes	SK	SK	07/1987 => 09/1996		
Mercedes	SK	SK	07/1987 => 09/1996		Rear
Mercedes	ZETROS	ZETROS	09/2008 =>		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

