

Technical data

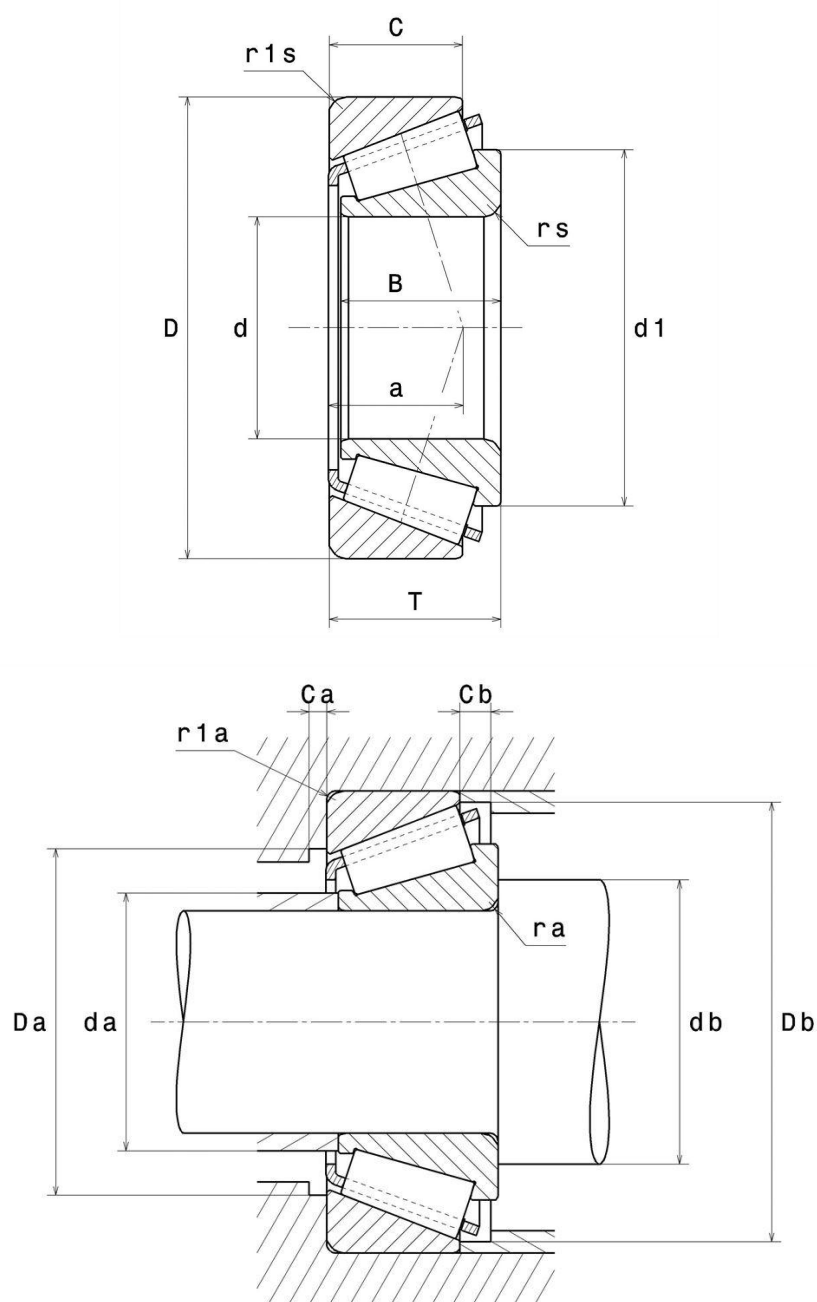
31306A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



31306A

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	30 mm
D - External diameter	72 mm
B - Bearing/Inner ring width	19 mm
C - Outer ring width	14 mm
T - Total width	20,75 mm
d1 - External diameter inner ring	52,4 mm
a - Charge load application point	23,05 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,392 kg
ISO 355 reference	T7FB030

PRODUCT PERFORMANCE

C - Dynamic load	57,2 kN
A2 - Rating life coefficient	1
C0 - Static load	59,8 kN
Cu - Fatigue limit load	7,3 kN
e - Coefficient	0.83
Y0 - Static axial load coefficient	0.4
Y2 - Upper axial load coefficient	0.73
N ref - Reference thermal speed	6100 tr/min
N lim - Mechanical Limit Speed	10000 tr/min
Tmin - Min operating temperature	-40 °C



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 PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.735 Hz
BPFI - Over rolling frequency on inner (60 rpm)	9.265 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.404 Hz
BRF - Fréquence de rotation : Élément roulant	2.702 Hz
FTF - Rotational frequency - cage (60 rpm)	0.421 Hz

ABUTMENT

da max - Max shoulder diameter IR	39 mm
db min - Min IR shoulder diameter	38,5 mm
Da min - Min shoulder diameter OR	55 mm
Da max - Max shoulder diameter OR	63,5 mm
Db min - Min OR shoulder diameter	68 mm
Ca - Min clearance	3 mm
Cb - Min clearance	6,5 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Reference	31306A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



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ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
- Contact angle	28.811 °

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

$Po = Xo.Fr + Yo.Fa$

Xo	Yo
0.5	Y0

If $Po \leq Fr$, then use $Po = Fr$

The values for e, Y2 and Y0 are shown in the above table