

Technical data

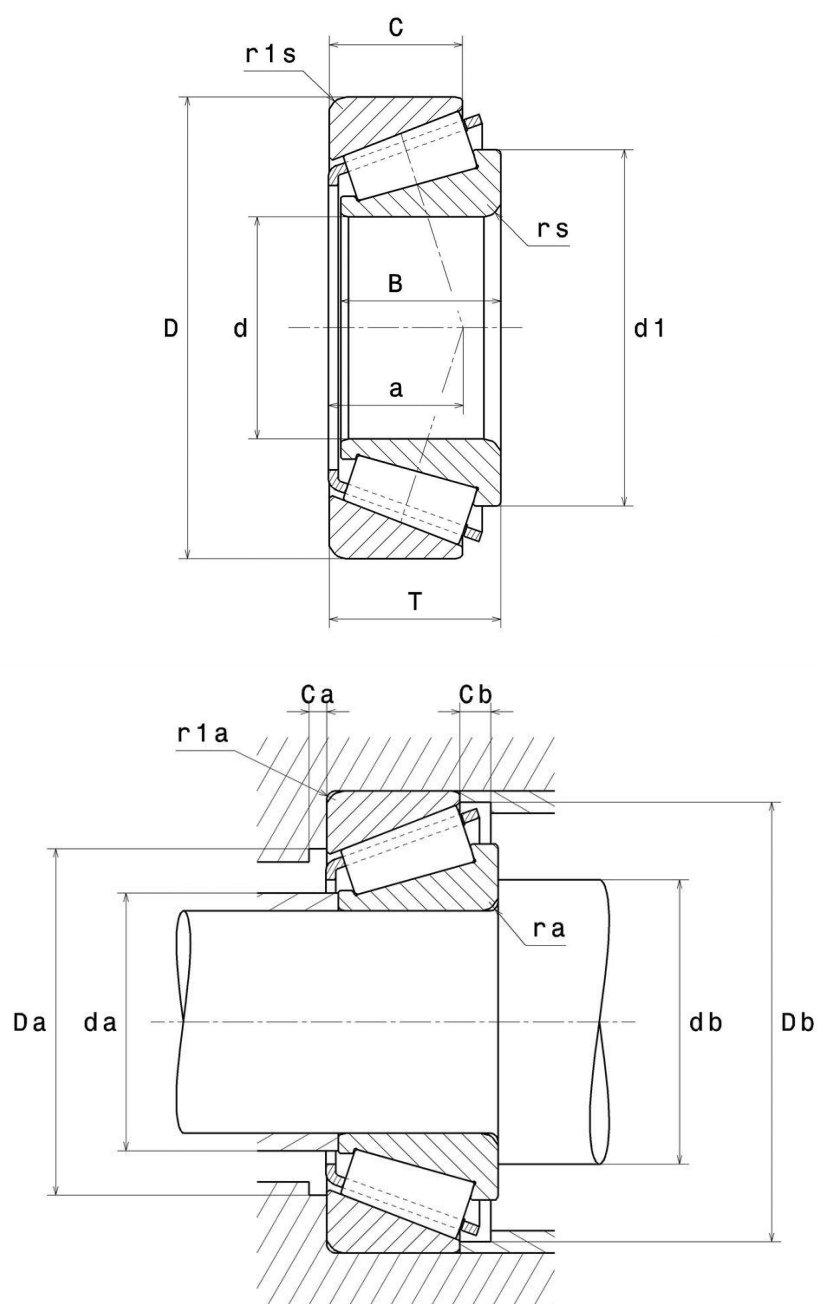
33116U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	80 mm
D - External diameter	130 mm
B - Bearing/Inner ring width	37 mm
C - Outer ring width	29 mm
T - Total width	37 mm
a - Charge load application point	30,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,87 kg
ISO 355 reference	T3DE080

PRODUCT PERFORMANCE

C - Dynamic load	199000000 mN
C0 - Static load	276000000 mN
Cu - Fatigue limit load	33000000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.79
Y2 - Upper axial load coefficient	1.44
N lim - Oil lubrication limit speed	21600 °/s
N lim - Grease lubrication limit speed	16200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



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ABUTMENT	
da max - Max shoulder diameter IR	90 mm
db min - Min IR shoulder diameter	88,5 mm
Da min - Min shoulder diameter OR	110,5 mm
Da max - Max shoulder diameter OR	121,5 mm
Db min - Min OR shoulder diameter	126 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

OE EQUIVALENTS	
Manufacturer	Part number
Mercedes	015 981 45 05 020 981 72 05 A0159814505 A0209817205
Scania	1301694



NTN Europe

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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

