

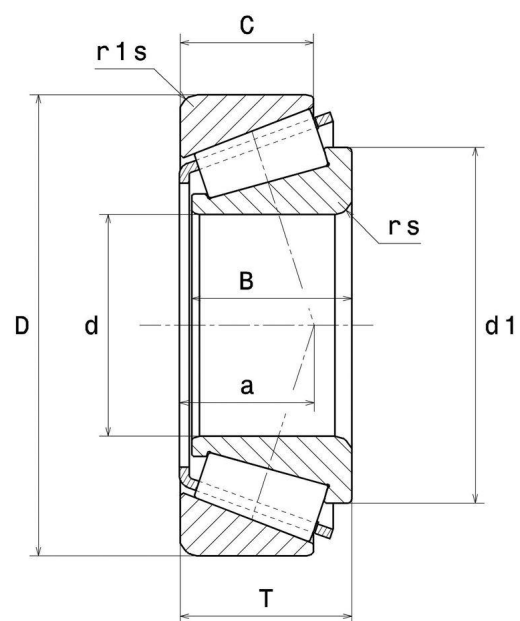
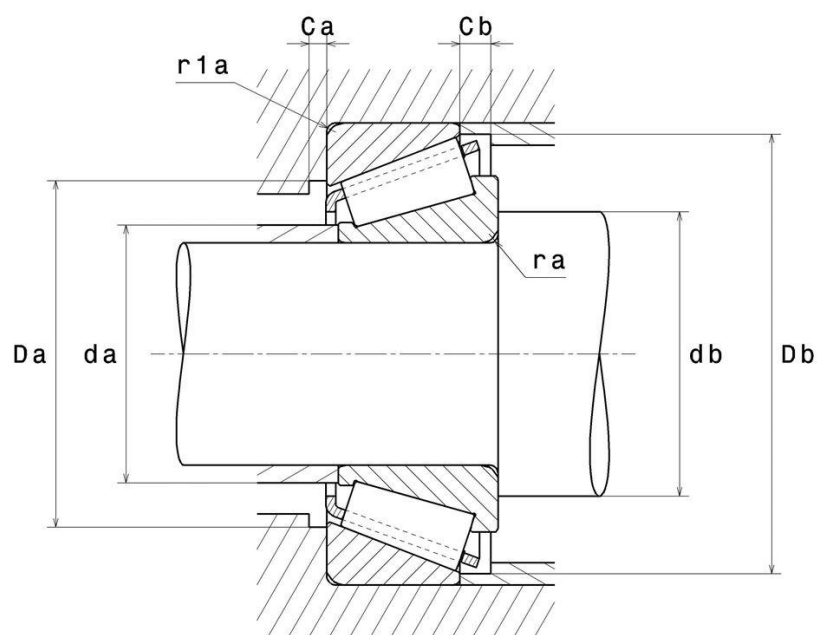
Technical data

32920

Single row tapered roller bearings



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	140 mm
B - Bearing/Inner ring width	24 mm
C - Outer ring width	20 mm
T - Total width	25 mm
a - Charge load application point	25 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	1,08 kg

PRODUCT PERFORMANCE

C - Dynamic load	108 kN
C0 - Static load	162 kN
Cu - Fatigue limit load	18,6 kN
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.95
Y2 - Upper axial load coefficient	1.73
N lim - Oil lubrication limit speed	3200 tr/min
N lim - Grease lubrication limit speed	2400 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

Da min - Min shoulder diameter OR	127 mm
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ABUTMENT

Da max - Max shoulder diameter OR	131,5 mm
Db min - Min OR shoulder diameter	135 mm
Ca - Min clearance	4 mm
Cb - Min clearance	5 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

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

