



Technical data

4T-49585/49520

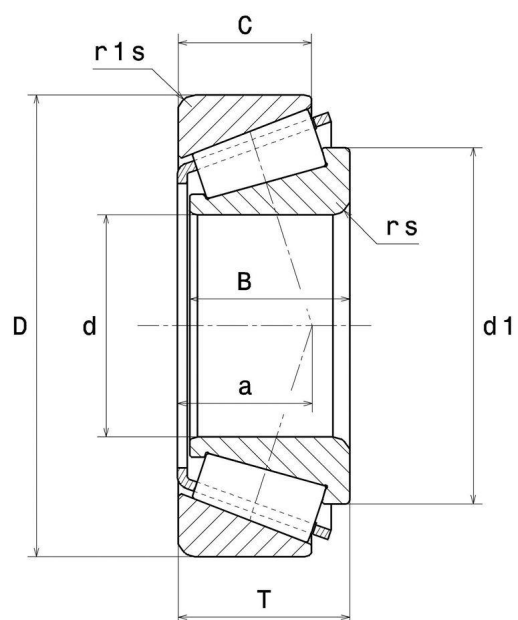
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

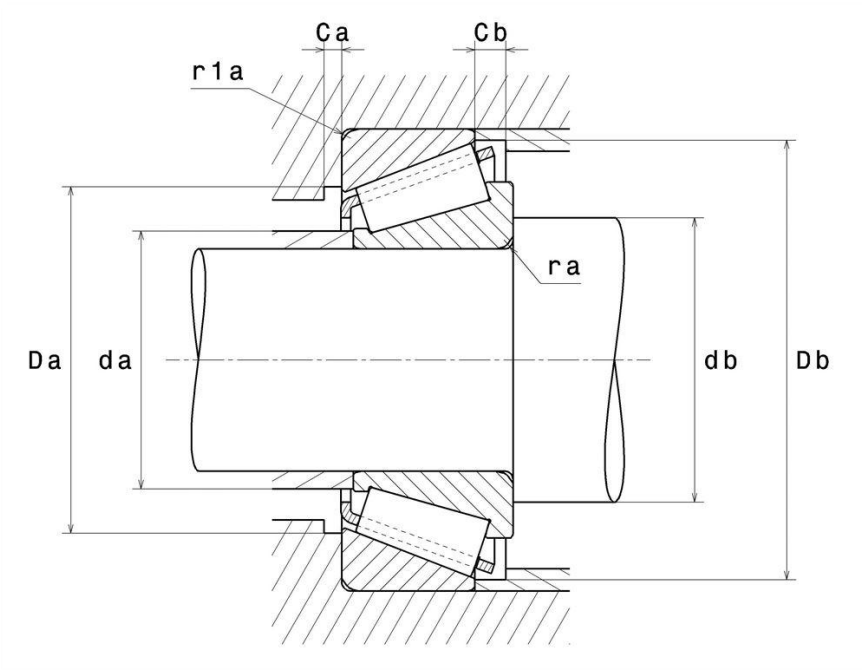
KIT CONTENT

4T-49585, 4T-49520

VISUAL (S)



4T-49585/49520
Single row tapered roller bearings



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	50,8 mm
D - External diameter	101,6 mm
B - Bearing/Inner ring width	31,75 mm
C - Outer ring width	25,4 mm
T - Total width	31,75 mm
d1 - External diameter inner ring	76 mm
a - Charge load application point	24,65 mm
Mass	1,13 kg

PRODUCT PERFORMANCE	
C - Dynamic load	122 kN
C0 - Static load	136 kN
Cu - Fatigue limit load	16,6 kN

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Single row tapered roller bearings

PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.4
Y0 - Static axial load coefficient	0.82
Y2 - Upper axial load coefficient	1.5
Nlim - Oil lubrication limit speed	5000 tr/min
Nlim - Grease lubrication limit speed	3700 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da max - Max shoulder diameter IR	59 mm
db min - Min IR shoulder diameter	66 mm
Da max - Max shoulder diameter OR	88 mm
Db min - Min OR shoulder diameter	96 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm



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

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

