



Technical data

4T-782/772

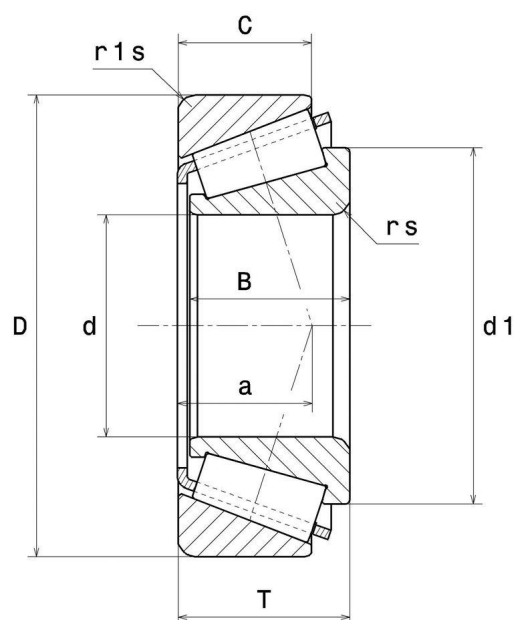
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

KIT CONTENT

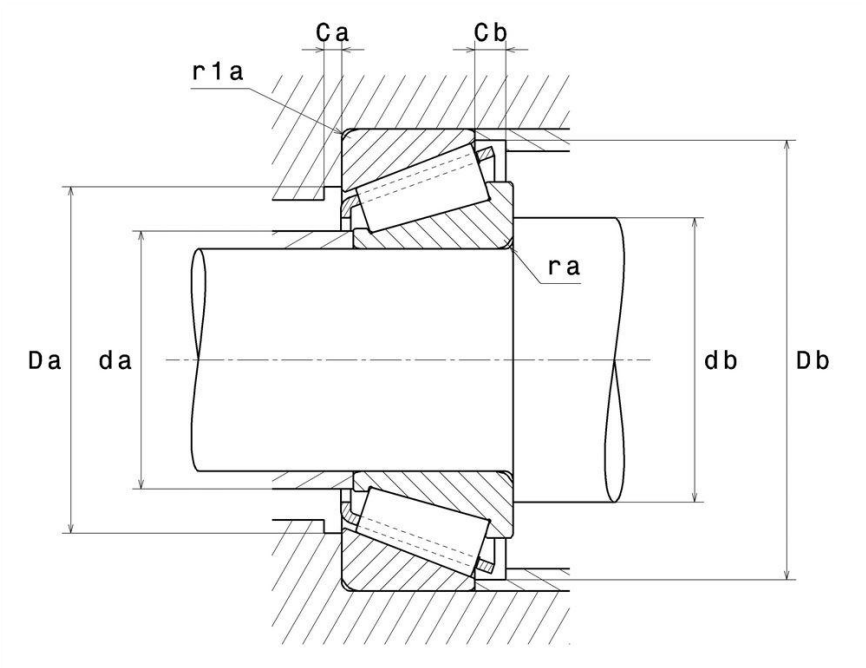
4T-782, 4T-772

VISUAL (S)



4T-782/772

Single row tapered roller bearings



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	104,775 mm
D - External diameter	180,975 mm
B - Bearing/Inner ring width	48,006 mm
C - Outer ring width	38,1 mm
T - Total width	47,625 mm
d1 - External diameter inner ring	139 mm
a - Charge load application point	39,525 mm
Mass	4,92 kg

PRODUCT PERFORMANCE

C - Dynamic load	285000000 mN
C0 - Static load	430000000 mN
Cu - Fatigue limit load	47500000 mN



4T-782/772

Single row tapered roller bearings

PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.39
Y0 - Static axial load coefficient	0.86
Y2 - Upper axial load coefficient	1.56
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

ABUTMENT

da max - Max shoulder diameter IR	116 mm
db min - Min IR shoulder diameter	122 mm
Da max - Max shoulder diameter OR	161 mm
Db min - Min OR shoulder diameter	168 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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

