



Technical data

4T-665/653

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

KIT CONTENT

4T-653, 4T-665

VISUAL (S)



4T-665/653
Single row tapered roller bearings



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	85,725 mm
D - External diameter	146,05 mm
B - Bearing/Inner ring width	41,275 mm
C - Outer ring width	31,75 mm
T - Total width	41,275 mm
d1 - External diameter inner ring	114,4 mm
a - Charge load application point	33,275 mm
Mass	2,65 kg

PRODUCT PERFORMANCE	
C - Dynamic load	228 kN
C0 - Static load	295 kN
Cu - Fatigue limit load	34,5 kN

4T-665/653

Single row tapered roller bearings

PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.41
Y0 - Static axial load coefficient	0.81
Y2 - Upper axial load coefficient	1.47
N lim - Oil lubrication limit speed	3300 tr/min
N lim - Grease lubrication limit speed	2500 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da max - Max shoulder diameter IR	95 mm
db min - Min IR shoulder diameter	102 mm
Da max - Max shoulder diameter OR	131 mm
Db min - Min OR shoulder diameter	139 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm

KIT COMPONENT

Cone designation	4T-665
Cup designation	4T-653

ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
Reference	4T-665/653
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
ULTAGE	Non/No



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

ESHOPDONOTDISPLAY

Rolling element material

Acier de cémentation

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$P_o = X_o.F_r + Y_o.F_a$

X ₀	Y ₀
0.5	Y0

If $P_o \leq F_r$, then use $P_o = F_r$

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

