



Technical data

4T-749/742

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

KIT CONTENT

4T-749, 4T-742

VISUAL (S)



4T-749/742

Single row tapered roller bearings



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	85,026 mm
D - External diameter	150,089 mm
B - Bearing/Inner ring width	46,672 mm
C - Outer ring width	36,512 mm
T - Total width	44,45 mm
d1 - External diameter inner ring	114,5 mm
a - Charge load application point	32,45 mm
Mass	3,24 kg

PRODUCT PERFORMANCE	
C - Dynamic load	289 kN
C0 - Static load	360 kN
Cu - Fatigue limit load	42 kN

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PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.33
Y0 - Static axial load coefficient	1.01
Y2 - Upper axial load coefficient	1.84
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 max - Max shoulder diameter IR	95 mm
db min - Min IR shoulder diameter	101 mm
Da max - Max shoulder diameter OR	134 mm
Db min - Min OR shoulder diameter	142 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm

KIT COMPONENT

Cone designation	4T-749
Cup designation	4T-742

ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
Reference	4T-749/742
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
ULTAGE	Non/No



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

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 _o	Y _o
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

