



## Technical data

4T-HM907643/HM907614

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

### KIT CONTENT

4T-HM907614, 4T-HM907643

### VISUAL (S)



4T-HM907643/HM907614

Single row tapered roller bearings



| PRODUCT DEFINITION                |            |
|-----------------------------------|------------|
| Brand                             | NTN        |
| d - Internal diameter             | 50,8 mm    |
| D - External diameter             | 111,125 mm |
| B - Bearing/Inner ring width      | 28,575 mm  |
| C - Outer ring width              | 20,638 mm  |
| T - Total width                   | 30,162 mm  |
| d1 - External diameter inner ring | 85,5 mm    |
| a - Charge load application point | 37,362 mm  |
| Mass                              | 1,36 kg    |

| PRODUCT PERFORMANCE     |         |
|-------------------------|---------|
| C - Dynamic load        | 115 kN  |
| C0 - Static load        | 136 kN  |
| Cu - Fatigue limit load | 16,6 kN |

# 4T-HM907643/HM907614

Single row tapered roller bearings

## PRODUCT PERFORMANCE

|                                        |             |
|----------------------------------------|-------------|
| A2 - Rating life coefficient           | 1           |
| e - Coefficient                        | 0.88        |
| Y0 - Static axial load coefficient     | 0.37        |
| Y2 - Upper axial load coefficient      | 0.68        |
| N lim - Oil lubrication limit speed    | 4200 tr/min |
| N lim - Grease lubrication limit speed | 3200 tr/min |
| Tmin - Min operating temperature       | -40 °C      |
| Tmax - Max operating temperature       | 120 °C      |

## ABUTMENT

|                                   |        |
|-----------------------------------|--------|
| da max - Max shoulder diameter IR | 65 mm  |
| db min - Min IR shoulder diameter | 74 mm  |
| Da max - Max shoulder diameter OR | 91 mm  |
| Db min - Min OR shoulder diameter | 105 mm |
| ra max - Max fillet radius        | 3,5 mm |
| r1a - Max fillet radius           | 3,3 mm |

## KIT COMPONENT

|                  |             |
|------------------|-------------|
| Cone designation | 4T-HM907643 |
| Cup designation  | 4T-HM907614 |

## ESHOPDONOTDISPLAY

|           |                                 |
|-----------|---------------------------------|
| Tracepart | Oui/Yes                         |
| Reference | 4T-HM907643/HM907614            |
| 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  
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ESHOPDONOTDISPLAY

Rolling element material

Acier de cémentation

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

$P_o = X_o.F_r + Y_o.F_a$

| $X_o$ | $Y_o$ |
|-------|-------|
| 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

