



## Technical data

4T-48290/48220

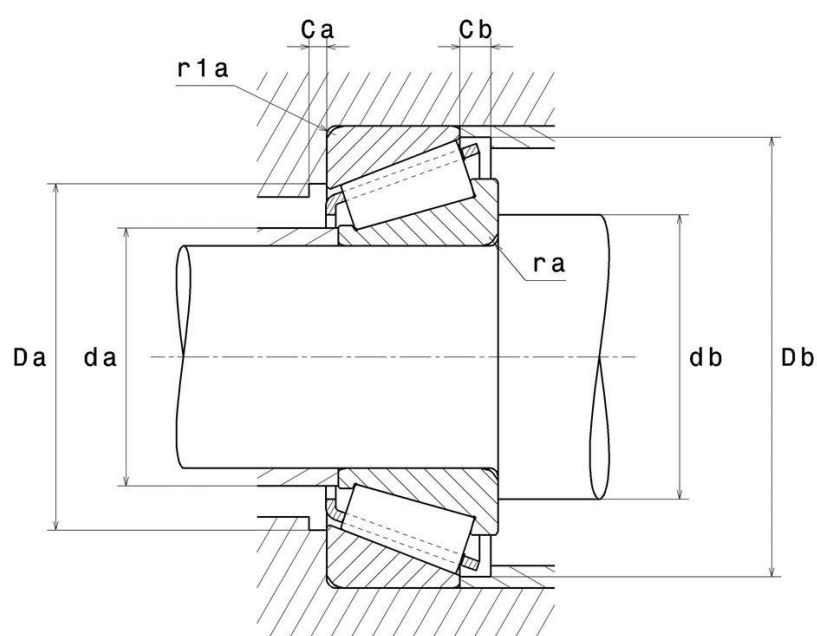
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

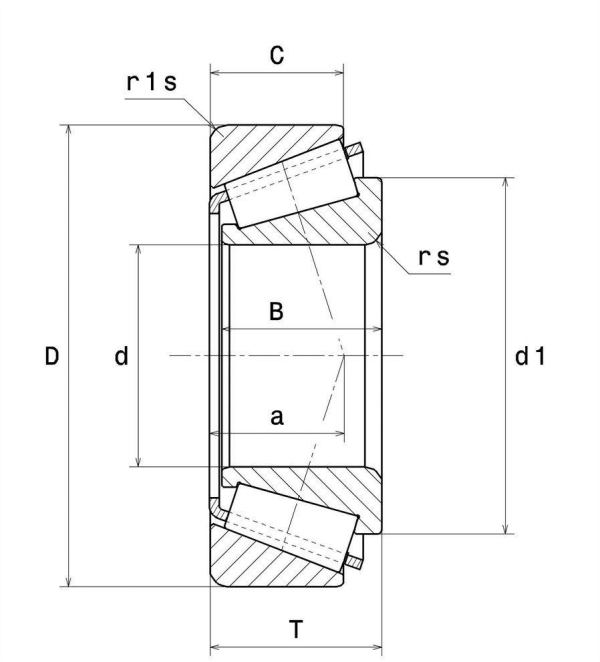
### KIT CONTENT

4T-48220, 4T-48290

### VISUAL (S)



4T-48290/48220  
Single row tapered roller bearings



PRODUCT DEFINITION

|                                   |            |
|-----------------------------------|------------|
| Brand                             | NTN        |
| d - Internal diameter             | 127 mm     |
| D - External diameter             | 182,562 mm |
| B - Bearing/Inner ring width      | 38,1 mm    |
| C - Outer ring width              | 33,338 mm  |
| T - Total width                   | 39,688 mm  |
| d1 - External diameter inner ring | 155,5 mm   |
| a - Charge load application point | 33,988 mm  |
| rs - Min fillet radius            | 3,5 mm     |
| r1s - Min fillet radius           | 3,3 mm     |
| Mass                              | 3,33 kg    |

PRODUCT PERFORMANCE

|                  |        |
|------------------|--------|
| C - Dynamic load | 249 kN |
|------------------|--------|



# 4T-48290/48220

Single row tapered roller bearings

## PRODUCT PERFORMANCE

|                                               |             |
|-----------------------------------------------|-------------|
| <b>C0 - Static load</b>                       | 435 kN      |
| <b>Cu - Fatigue limit load</b>                | 46,5 kN     |
| <b>A2 - Rating life coefficient</b>           | 1           |
| <b>e - Coefficient</b>                        | 0.31        |
| <b>Y0 - Static axial load coefficient</b>     | 1.08        |
| <b>Y2 - Upper axial load coefficient</b>      | 1.97        |
| <b>N lim - Oil lubrication limit speed</b>    | 2400 tr/min |
| <b>N lim - Grease lubrication limit speed</b> | 1800 tr/min |
| <b>Tmin - Min operating temperature</b>       | -40 °C      |
| <b>Tmax - Max operating temperature</b>       | 120 °C      |

## ABUTMENT

|                                          |        |
|------------------------------------------|--------|
| <b>da max - Max shoulder diameter IR</b> | 135 mm |
| <b>db min - Min IR shoulder diameter</b> | 78 mm  |
| <b>Da max - Max shoulder diameter OR</b> | 168 mm |
| <b>Db min - Min OR shoulder diameter</b> | 176 mm |
| <b>ra max - Max fillet radius</b>        | 3,5 mm |
| <b>r1a - Max fillet radius</b>           | 3,3 mm |

## KIT COMPONENT

|                         |          |
|-------------------------|----------|
| <b>Cone designation</b> | 4T-48290 |
| <b>Cup designation</b>  | 4T-48220 |

## ESHOPDONOTDISPLAY

|                  |                |
|------------------|----------------|
| <b>Tracepart</b> | Oui/Yes        |
| <b>Reference</b> | 4T-48290/48220 |



**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

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Single row tapered roller bearings

## ESHOPDONOTDISPLAY

|                          |                                 |
|--------------------------|---------------------------------|
| Image                    | TRB_1.jpg, TRB_2.jpg, TRB_3.jpg |
| ULTAGE                   | Non/No                          |
| 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

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 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



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