

## Technical data

4T-2780/2720

Single row tapered roller bearings

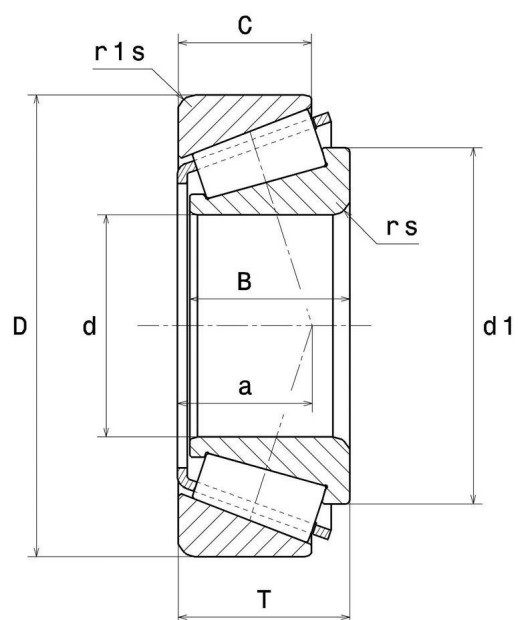


Tapered roller bearing, pressed steel cage

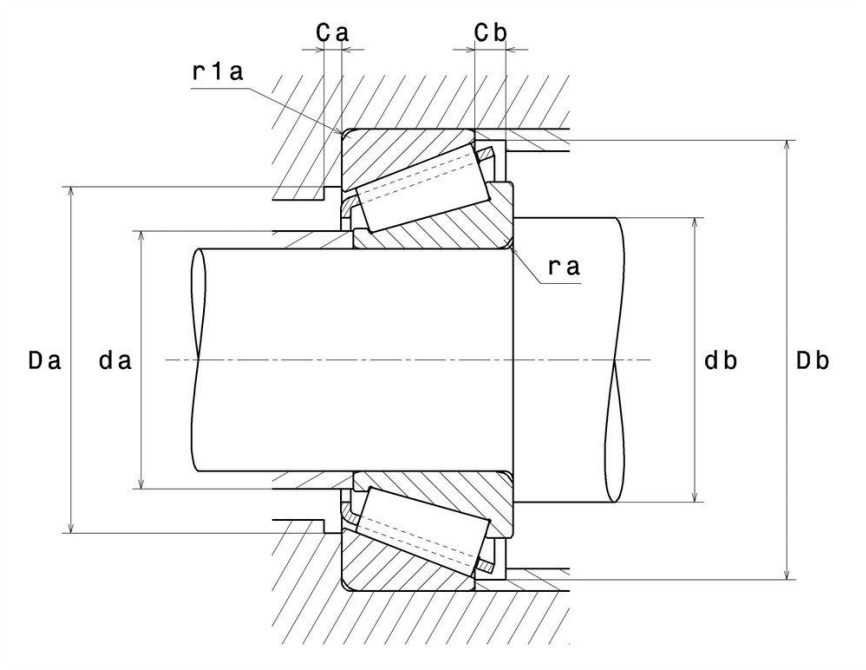
### KIT CONTENT

4T-2780, 4T-2720

### VISUAL (S)



4T-2780/2720  
Single row tapered roller bearings



| PRODUCT DEFINITION                |           |
|-----------------------------------|-----------|
| Brand                             | NTN       |
| d - Internal diameter             | 36,487 mm |
| D - External diameter             | 76,2 mm   |
| B - Bearing/Inner ring width      | 25,654 mm |
| C - Outer ring width              | 19,05 mm  |
| T - Total width                   | 23,812 mm |
| d1 - External diameter inner ring | 55 mm     |
| a - Charge load application point | 16,012 mm |
| Mass                              | 0,516 kg  |

| PRODUCT PERFORMANCE     |         |
|-------------------------|---------|
| C - Dynamic load        | 81 kN   |
| C0 - Static load        | 90,5 kN |
| Cu - Fatigue limit load | 11 kN   |

# 4T-2780/2720

## Single row tapered roller bearings

### PRODUCT PERFORMANCE

|                                               |             |
|-----------------------------------------------|-------------|
| <b>A2 - Rating life coefficient</b>           | 1           |
| <b>e - Coefficient</b>                        | 0.3         |
| <b>Y0 - Static axial load coefficient</b>     | 1.09        |
| <b>Y2 - Upper axial load coefficient</b>      | 1.98        |
| <b>N lim - Oil lubrication limit speed</b>    | 6800 tr/min |
| <b>N lim - Grease lubrication limit speed</b> | 5100 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> | 42,5 mm |
| <b>db min - Min IR shoulder diameter</b> | 44,5 mm |
| <b>Da max - Max shoulder diameter OR</b> | 66 mm   |
| <b>Db min - Min OR shoulder diameter</b> | 70 mm   |
| <b>ra max - Max fillet radius</b>        | 1,5 mm  |
| <b>r1a - Max fillet radius</b>           | 3,3 mm  |

### KIT COMPONENT

|                         |         |
|-------------------------|---------|
| <b>Cone designation</b> | 4T-2780 |
| <b>Cup designation</b>  | 4T-2720 |

### ESHOPDONOTDISPLAY

|                  |                                 |
|------------------|---------------------------------|
| <b>Tracepart</b> | Oui/Yes                         |
| <b>Reference</b> | 4T-2780/2720                    |
| <b>Image</b>     | TRB_1.jpg, TRB_2.jpg, TRB_3.jpg |
| <b>ULTAGE</b>    | Non/No                          |



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ESHOPDONOTDISPLAY

Rolling element material

Acier de cémentation

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

| 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 <sub>o</sub> | Y <sub>o</sub> |
|----------------|----------------|
| 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

