



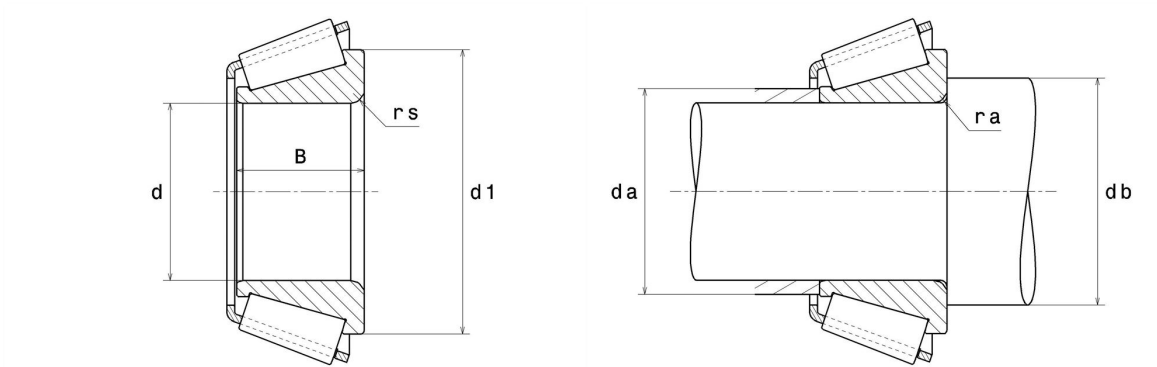
## Technical datasheet

### 4T-6461A

Single row tapered roller bearings

Mounted cone, sheet metal cage

#### Visual(s)



#### Product definition

|              |          |
|--------------|----------|
| <b>d</b>     | 76.2 mm  |
| <b>B</b>     | 54.23 mm |
| <b>d1</b>    | 111.5 mm |
| <b>e</b>     | 0.36     |
| <b>Y2</b>    | 1.66     |
| <b>Y0</b>    | 0.91     |
| <b>Brand</b> | NTN      |

#### Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 287 kN    |
| <b>Rating life coefficient, A2</b>                   | 1.4       |
| <b>Static load, C0</b>                               | 410 kN    |
| <b>Fatigue limit load, Cu</b>                        | 48.4 kN   |
| <b>Nlim (oil)</b>                                    | 3,400 rpm |
| <b>Nlim (grease)</b>                                 | 2,500 rpm |
| <b>Min operating temperature, Tmin</b>               | -40 °C    |
| <b>Max operating temperature, Tmax</b>               | 120 °C    |
| <b>Characteristic cage frequency, FTF</b>            | 0.43 Hz   |
| <b>Characteristic rolling element frequency, BSF</b> | 6.39 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 7.24 Hz   |
| <b>Characteristic inner ring frequency, BPF1</b>     | 9.76 Hz   |

## Abutment dimensions

**ra max**

9.7 mm

## Calculation 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  $P_0 < F_r$ , then use  $P_0 = F_r$

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