



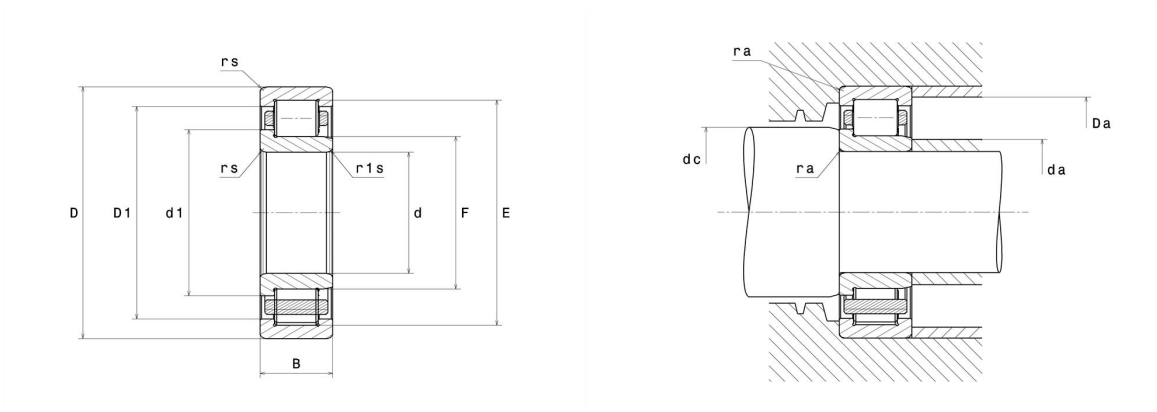
## Technical datasheet

### NJ2307ET2X

Single row cylindrical roller bearings

Single row cylindrical roller bearing, single direction for axial loads, separable, polyamide cage.

## Visual(s)



## Product definition

|                               |         |
|-------------------------------|---------|
| <b>d</b>                      | 35 mm   |
| <b>D</b>                      | 80 mm   |
| <b>B</b>                      | 31 mm   |
| <b>E</b>                      | 70.2 mm |
| <b>F</b>                      | 46.2 mm |
| <b>d1</b>                     | 51 mm   |
| <b>rs min</b>                 | 1.5 mm  |
| <b>r1s min</b>                | 1.1 mm  |
| <b>Radial clearance class</b> | CN      |
| <b>Mass (without HJ ring)</b> | 0.73 kg |
| <b>Brand</b>                  | NTN     |

## Product performance

|                                                      |              |
|------------------------------------------------------|--------------|
| <b>Dynamic load, C</b>                               | 99 kN        |
| <b>Static load, C0</b>                               | 109 kN       |
| <b>Fatigue limit load, Cu</b>                        | 13.3 kN      |
| <b>Nlim (oil)</b>                                    | 8,500 Tr/min |
| <b>Nlim (grease)</b>                                 | 7,200 Tr/min |
| <b>Min operating temperature, Tmin</b>               | -20 °C       |
| <b>Max operating temperature, Tmax</b>               | 120 °C       |
| <b>Characteristic cage frequency, FTF</b>            | 0.4 Hz       |
| <b>Characteristic rolling element frequency, BSF</b> | 4.64 Hz      |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.16 Hz      |
| <b>Characteristic inner ring frequency, BPFI</b>     | 7.84 Hz      |

## Abutment dimensions

|               |        |
|---------------|--------|
| <b>da min</b> | 43 mm  |
| <b>da max</b> | 45 mm  |
| <b>dc min</b> | 53 mm  |
| <b>Da max</b> | 72 mm  |
| <b>ra max</b> | 1.5 mm |

## Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$