



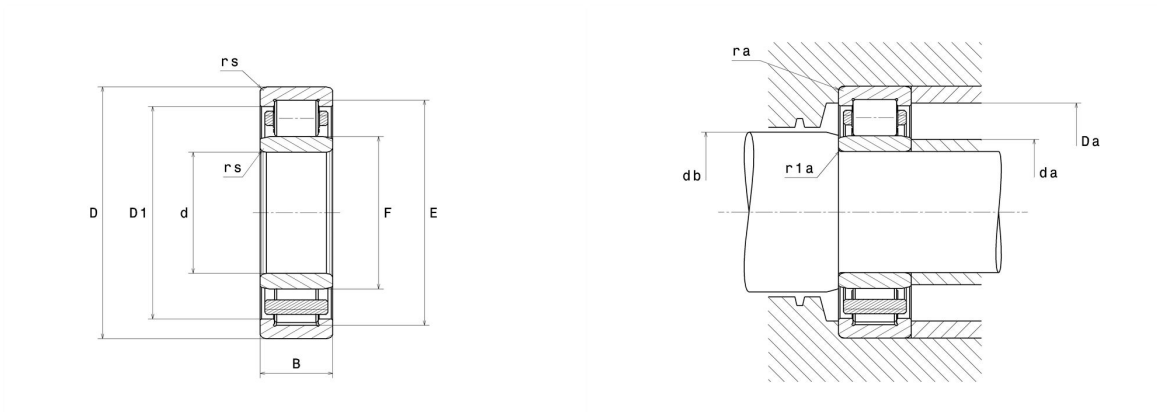
## Technical datasheet

### NU316ET2X

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, polyamide cage

#### Visual(s)



#### Product definition

|                               |        |
|-------------------------------|--------|
| <b>d</b>                      | 80 mm  |
| <b>D</b>                      | 170 mm |
| <b>B</b>                      | 39 mm  |
| <b>E</b>                      | 151 mm |
| <b>F</b>                      | 101 mm |
| <b>rs min</b>                 | 2.1 mm |
| <b>r1s min</b>                | 2.1 mm |
| <b>Radial clearance class</b> | CN     |
| <b>Mass (without HJ ring)</b> | 4 kg   |
| <b>Brand</b>                  | NTN    |

#### Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 256 kN    |
| <b>Static load, C0</b>                               | 282 kN    |
| <b>Fatigue limit load, Cu</b>                        | 32.2 kN   |
| <b>Nlim (oil)</b>                                    | 4,400 rpm |
| <b>Nlim (grease)</b>                                 | 3,700 rpm |
| <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> | 4.84 Hz   |
| <b>Characteristic outer ring frequency, BPF0</b>     | 5.21 Hz   |
| <b>Characteristic inner ring frequency, BPF1</b>     | 7.79 Hz   |

## Abutment dimensions

|                |        |
|----------------|--------|
| <b>da min</b>  | 91 mm  |
| <b>da max</b>  | 99 mm  |
| <b>db min</b>  | 105 mm |
| <b>Da max</b>  | 159 mm |
| <b>ra max</b>  | 2 mm   |
| <b>r1a max</b> | 2 mm   |

## Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$