



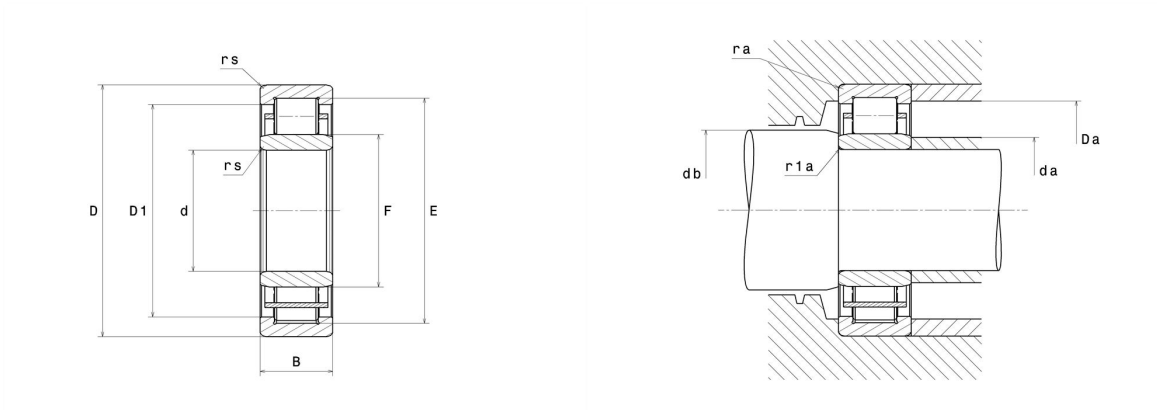
## Technical datasheet

### NU210

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, pressed steel cage

#### Visual(s)



#### Product definition

|                               |         |
|-------------------------------|---------|
| <b>d</b>                      | 50 mm   |
| <b>D</b>                      | 90 mm   |
| <b>B</b>                      | 20 mm   |
| <b>E</b>                      | 80.4 mm |
| <b>F</b>                      | 60.4 mm |
| <b>rs min</b>                 | 1.1 mm  |
| <b>r1s min</b>                | 1.1 mm  |
| <b>Radial clearance class</b> | CN      |
| <b>Mass (without HJ ring)</b> | 0.48 kg |
| <b>Brand</b>                  | NTN     |

#### Product performance

|                                                      |           |
|------------------------------------------------------|-----------|
| <b>Dynamic load, C</b>                               | 48 kN     |
| <b>Static load, C0</b>                               | 51 kN     |
| <b>Fatigue limit load, Cu</b>                        | 6.2 kN    |
| <b>Nlim (oil)</b>                                    | 9,000 rpm |
| <b>Nlim (grease)</b>                                 | 7,600 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> | 6.9 Hz    |
| <b>Characteristic outer ring frequency, BPF0</b>     | 6.44 Hz   |
| <b>Characteristic inner ring frequency, BPF1</b>     | 8.56 Hz   |

## Abutment dimensions

|                |         |
|----------------|---------|
| <b>da min</b>  | 56.5 mm |
| <b>da max</b>  | 58 mm   |
| <b>db min</b>  | 62 mm   |
| <b>Da max</b>  | 83.5 mm |
| <b>ra max</b>  | 1 mm    |
| <b>r1a max</b> | 1 mm    |

## Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$