# Technical data

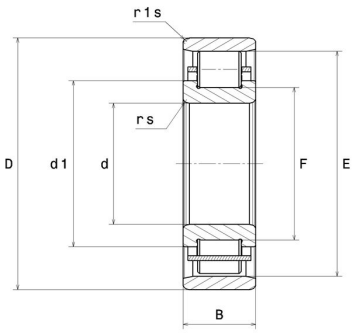
## N210

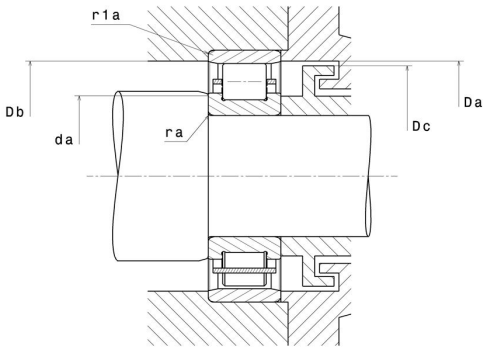
Single row cylindrical roller bearings

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



## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 50 mm |
| **D** | 90 mm |
| **B** | 20 mm |
| **E** | 80.4 mm |
| **F** | 60.4 mm |
| **d1** | 64.6 mm |
| **rs min** | 1.1 mm |
| **r1s min** | 1.1 mm |
| **Radial clearance class** | CN |
| **Mass (without HJ ring)** | 0.48 kg |
| **Brand** | NTN |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 48 kN |
| **Static load, C0** | 51 kN |
| **Fatigue limit load, Cu** | 6.2 kN |
| **Nlim (oil)** | 9,000 Tr/min |
| **Nlim (grease)** | 7,600 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.43 Hz |
| **Characteristic rolling element frequency, BSF** | 6.9 Hz |
| **Characteristic outer ring frequency, BPF0** | 6.44 Hz |
| **Characteristic inner ring frequency, BPFI** | 8.56 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 56.5 mm |
| **Da max** | 83.5 mm |
| **Db min** | 82.8 mm |
| **Dc max** | 78.8 mm |
| **ra max** | 1 mm |
| **r1a max** | 1 mm |

## Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$Po = Fr$