# Technical data

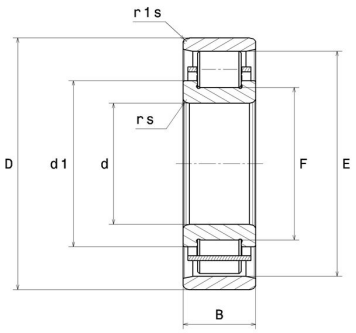
## N314

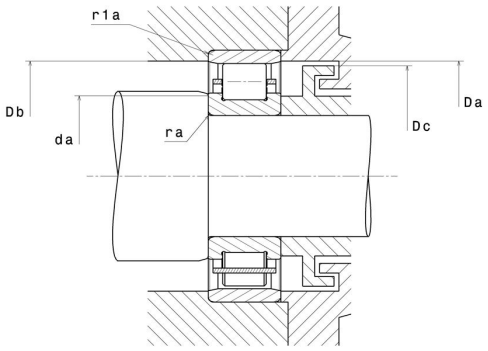
Single row cylindrical roller bearings

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



## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 70 mm |
| **D** | 150 mm |
| **B** | 35 mm |
| **E** | 130 mm |
| **F** | 90 mm |
| **d1** | 98 mm |
| **rs min** | 2.1 mm |
| **r1s min** | 2.1 mm |
| **Radial clearance class** | CN |
| **Mass (without HJ ring)** | 2.67 kg |
| **Brand** | NTN |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 158 kN |
| **Static load, C0** | 168 kN |
| **Fatigue limit load, Cu** | 19.9 kN |
| **Nlim (oil)** | 5,500 Tr/min |
| **Nlim (grease)** | 4,700 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.41 Hz |
| **Characteristic rolling element frequency, BSF** | 5.32 Hz |
| **Characteristic outer ring frequency, BPF0** | 5.32 Hz |
| **Characteristic inner ring frequency, BPFI** | 7.68 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 81 mm |
| **Da max** | 139 mm |
| **Db min** | 133 mm |
| **Dc max** | 128 mm |
| **ra max** | 2 mm |
| **r1a max** | 2 mm |

## Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$Po = Fr$