



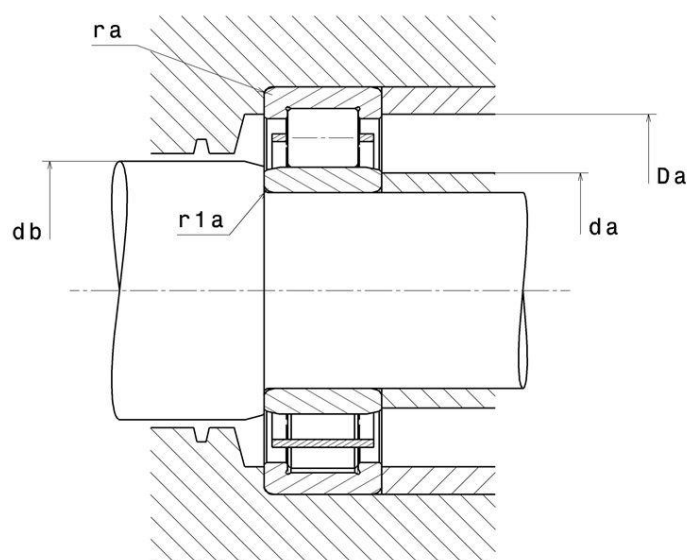
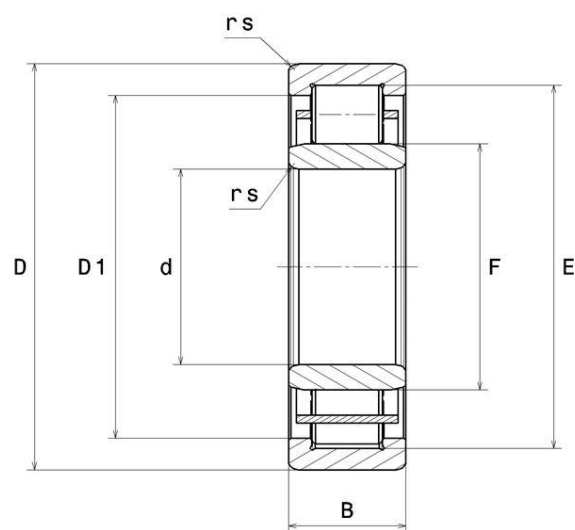
## Technical data

### NU318C3

Single row cylindrical roller bearings

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

#### VISUAL (S)



## PRODUCT DEFINITION

|                                     |        |
|-------------------------------------|--------|
| <b>Brand</b>                        | NTN    |
| <b>d - Internal diameter</b>        | 90 mm  |
| <b>D - External diameter</b>        | 190 mm |
| <b>B - Bearing/Inner ring width</b> | 43 mm  |
| <b>E - Upper roller diameter</b>    | 165 mm |
| <b>F - Under roller diameter</b>    | 115 mm |
| <b>rs - Min fillet radius</b>       | 3 mm   |
| <b>r1s - Min fillet radius</b>      | 3 mm   |
| <b>Radial clearance class</b>       | C3     |
| <b>Mass</b>                         | 5,3 kg |

## PRODUCT PERFORMANCE

|                                               |              |
|-----------------------------------------------|--------------|
| <b>C - Dynamic load</b>                       | 266000000 mN |
| <b>C0 - Static load</b>                       | 265000000 mN |
| <b>Cu - Fatigue limit load</b>                | 29300000 mN  |
| <b>N lim - Oil lubrication limit speed</b>    | 25800 °/s    |
| <b>N lim - Grease lubrication limit speed</b> | 22200 °/s    |
| <b>Tmin - Min operating temperature</b>       | 233,15 °K    |
| <b>Tmax - Max operating temperature</b>       | 393,15 °K    |

## ABUTMENT

|                                                  |        |
|--------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>         | 103 mm |
| <b>da max - Small face shoulder max diameter</b> | 111 mm |
| <b>db min - Min inner ring GO diameter</b>       | 117 mm |
| <b>Da max - Max shoulder diameter OR</b>         | 177 mm |



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## ABUTMENT

|                                   |        |
|-----------------------------------|--------|
| <b>ra max - Max fillet radius</b> | 2,5 mm |
| <b>r1a - Max fillet radius</b>    | 2,5 mm |

## INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$



**NTN Europe**

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00  
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