



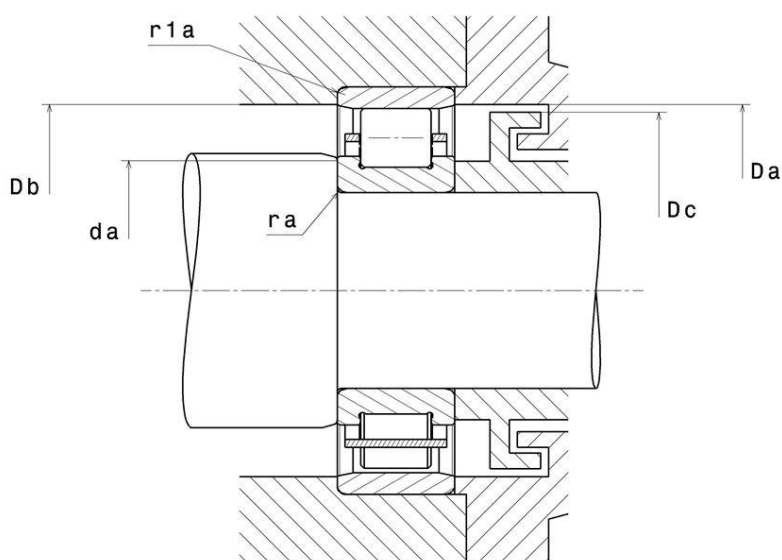
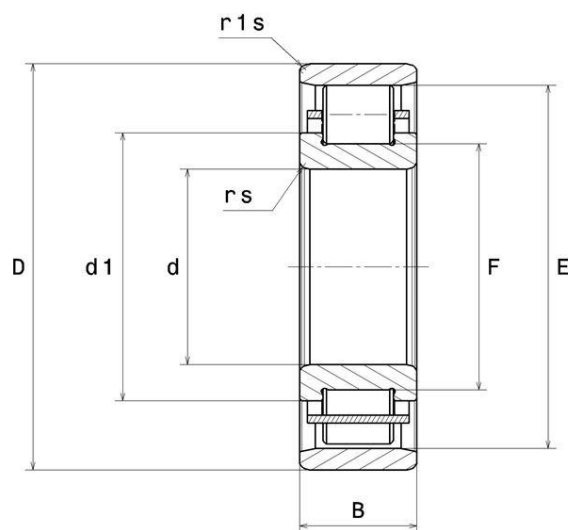
## Technical data

### N310

Single row cylindrical roller bearings

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

#### VISUAL (S)



# N310

## Single row cylindrical roller bearings

### PRODUCT DEFINITION

|                                      |         |
|--------------------------------------|---------|
| <b>Brand</b>                         | NTN     |
| <b>d - Internal diameter</b>         | 50 mm   |
| <b>D - External diameter</b>         | 110 mm  |
| <b>B - Bearing/Inner ring width</b>  | 27 mm   |
| <b>E - Upper roller diameter</b>     | 95 mm   |
| <b>F - Under roller diameter</b>     | 65 mm   |
| <b>d1 - IR flange outer diameter</b> | 71 mm   |
| <b>rs - Min fillet radius</b>        | 2 mm    |
| <b>r1s - Min fillet radius</b>       | 2 mm    |
| <b>Radial clearance class</b>        | CN      |
| <b>Mass</b>                          | 1,11 kg |

### PRODUCT PERFORMANCE

|                                               |             |
|-----------------------------------------------|-------------|
| <b>C - Dynamic load</b>                       | 96500000 mN |
| <b>C0 - Static load</b>                       | 86000000 mN |
| <b>Cu - Fatigue limit load</b>                | 10500000 mN |
| <b>N lim - Oil lubrication limit speed</b>    | 46200 °/s   |
| <b>N lim - Grease lubrication limit speed</b> | 39000 °/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>         | 59 mm  |
| <b>Da max - Max shoulder diameter OR</b>         | 101 mm |
| <b>Db min - Small face shoulder min diameter</b> | 97 mm  |



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# N310

Single row cylindrical roller bearings

| ABUTMENT                            |       |
|-------------------------------------|-------|
| Dc max - Max outer ring GO diameter | 93 mm |
| ra max - Max fillet radius          | 2 mm  |
| r1a - Max fillet radius             | 2 mm  |

| INDUSTRY CALCUL FACTORS                     |
|---------------------------------------------|
| Equivalent dynamic radial load<br>$P = Fr$  |
| Equivalent static radial load<br>$P_0 = Fr$ |