

## Technical data

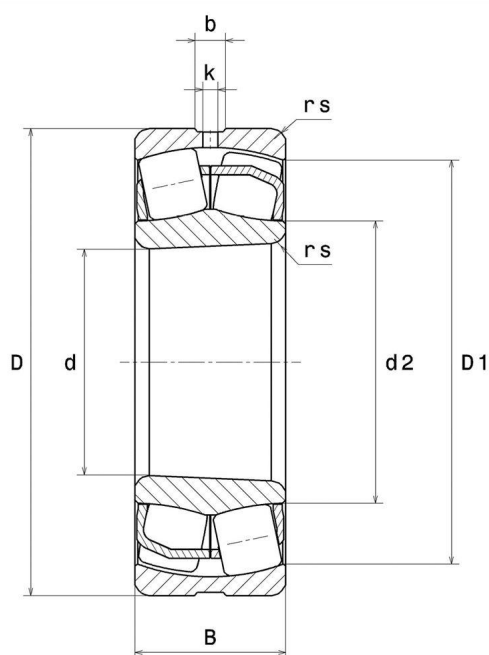
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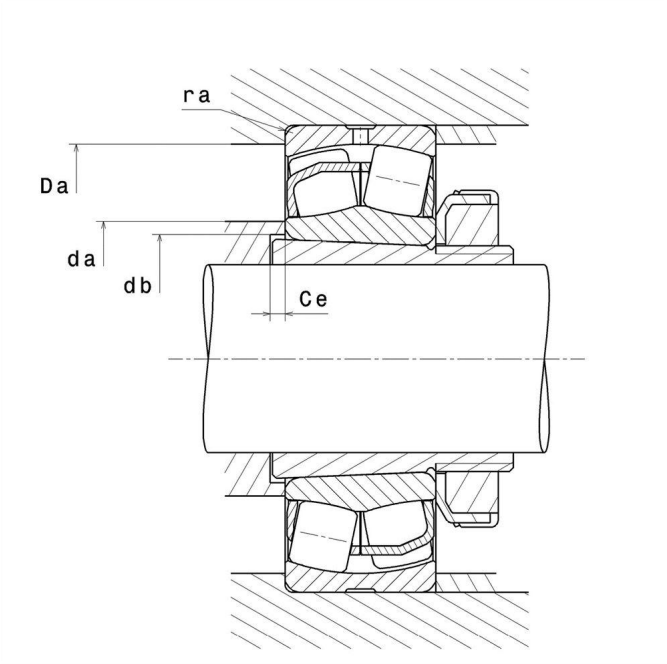
Spherical roller bearings



**ULTAGE®**

### VISUAL (S)





PRODUCT DEFINITION

|                                   |         |
|-----------------------------------|---------|
| Brand                             | NTN     |
| d - Internal diameter             | 30 mm   |
| D - External diameter             | 62 mm   |
| B - Bearing/Inner ring width      | 20 mm   |
| d2 - External diameter inner ring | 37,5 mm |
| D1 - Inner diameter outer ring    | 54,3 mm |
| rs - Min fillet radius            | 1 mm    |
| Number of lubrication holes       | 3       |
| b - Groove width                  | 4,39 mm |
| k - Hole diameter                 | 2 mm    |
| Associated sleeve reference       | H306    |
| Radial clearance class            | CN      |
| Mass                              | 0,26 kg |



## PRODUCT PERFORMANCE

|                                           |             |
|-------------------------------------------|-------------|
| <b>C - Dynamic load</b>                   | 75700000 mN |
| <b>C0 - Static load</b>                   | 64500000 mN |
| <b>Cu - Fatigue limit load</b>            | 7900000 mN  |
| <b>e - Coefficient</b>                    | 0.31        |
| <b>Y0 - Static axial load coefficient</b> | 2.1         |
| <b>Y1 - Lower axial load coefficient</b>  | 2.15        |
| <b>Y2 - Upper axial load coefficient</b>  | 3.2         |
| <b>N ref - Reference thermal speed</b>    | 66000 °/s   |
| <b>N lim - Mechanical Limit Speed</b>     | 84000 °/s   |
| <b>Tmin - Min operating temperature</b>   | 233,15 °K   |
| <b>Tmax - Max operating temperature</b>   | 473,15 °K   |

## ABUTMENT

|                                                       |         |
|-------------------------------------------------------|---------|
| <b>da min - Min shoulder diameter IR</b>              | 35,6 mm |
| <b>db - Min diameter for Sleeve</b>                   | 33 mm   |
| <b>Ce - Min length fro Sleeve</b>                     | 5 mm    |
| <b>Da max - Max shoulder diameter OR</b>              | 56,4 mm |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 1 mm    |



## INDUSTRY CALCUL FACTORS

### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| $F_a / F_r \leq e$ |    | $F_a / F_r > e$ |    |
|--------------------|----|-----------------|----|
| X                  | Y  | X               | Y  |
| 1                  | Y1 | 0.67            | Y2 |

### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 1     | Y0    |

The values for e, Y1, Y2 and Y0 are shown in the above table .



**NTN Europe**

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