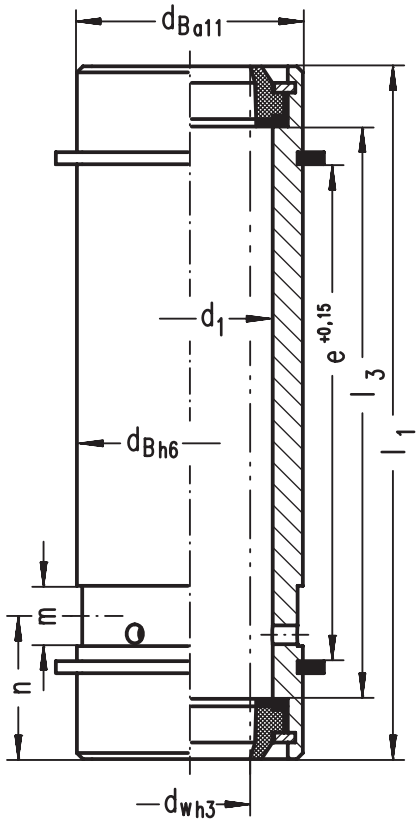
# Closed Guide Bush with Wiper Seals

## N 570




### Suitability

Particularly thick-walled and robust design with wiper seals.
- When used in combination with shaft diameter $d_w$ ISO-h3, preloading of the rotary stroke bearing is guaranteed.
- Primarily used in mechanical engineering applications or where conditions require wiper seals to be employed.
- The wiper seals prevent any penetration of dirt particles, even in the dirtiest working conditions. (The rubbing action of the wiper seals on the shaft affects the smooth running of the rotary stroke bearing slightly.)
- Three radial bores permit lubrication during operation.
- Circlips DIN 471 on outside diameter $d_B$ permit easy installation in the location bore.
- Stop rings fastened with snap rings ensure the ball cage path is effectively limited.

### Features

- Stop rings and wiper seals fixed on both sides.
- The closed guide bush and integrated ball cage form a separate component.
- Guide bore diameter $d_1$ is finely honed to ISO tolerance IT 3, $R_z$ 0.5 – 1.5 µm depending on diameter.
- Roundness within 1/3 ISO-IT 3.
- Cylindricity within IT 1.
- Radial run-out of a shaft inserted under preloading is within 0.0005 mm.
- Outside diameter $d_B$ h6 with radial run-out error within IT 4, ground to guide bore diameter $d_1$.
- Outside diameter with circlips DIN 471 for installation of the guide bush in the location bore.
- The maximum stroke path $H_{max}$ is determined from the length of the guide bush $l_3$ and the length of the ball cage $l_2$: $H_{max} = 2\ (l_3 - l_2)$.
- See page 37-41 for instructions on installation and servicing.

### Material

- Special roller bearing steel 100 Cr 6 (1.2067 or 1.3505)
- Carefully heat-treated, hardness rating HRC 60–64/HV 720–815
- Steel stop rings
- Wiper seals NBR rubber in steel shell
- Circlips DIN 471 steel
- Maximum constant working temperature 100°C

### Special designs

Other dimensions or designs based on workpiece drawings are available.
These can also be produced using stainless steel (1.4112).

### Order Information

Rotary stroke bearing consisting of:

| | |
|---|---|
| Guide bush N 570/$d_w$/$d_1$/$l_1$ | **Order No. 5009 . . .** |
| Ball cage N 501/$d_w$/$d_1$/$l_2$ | **Order No. 50010 . .** |
| or | |
| Ball cage N 500/$d_w$/$d_1$/$l_2$ | **Order No. 50000 . .** |