

# Instructions for use – mandrels for the RA angle piece

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Observe the instructions for use



Clean and sterilise before use

## Scope:

Mandrels for mounting elastic burnishers, paper discs, nylon discs, diamond-coated discs, cutting discs, circular saws, felt rolls, sandpaper strips and brushes.

**Cleaning / Sterilisation:** (based on DIN EN ISO 17664)

Repeated correct reprocessing may minimally change the look and feel of the product; however, impaired functionality can be excluded.

### Preparation:

- Disassemble multi-part instruments and secure individual parts against loss.
- Prior to the first and directly after every use pre-clean the instrument under running water by means of a synthetic brush (toothbrush)

### Manual / automatic cleaning:

- Manual: Use a synthetic brush to clean the instrument under running water.
- Automatic: Ultrasound-based cleaning: Use suitable cleaning and disinfecting agents, see manufacturer's information.
- Rinse instruments under running water.

### Disinfection:

- Select a product recommended for rotating instruments by the disinfectant manufacturer and disinfect. Choose the concentration and exposure time according to the instructions of the disinfectant manufacturer.

### Rinsing:

- After disinfection, use distilled water to rinse the instruments.

### Drying:

- Use a fresh clean, lint-free cellulose cloth or filtered compressed air.

### Maintenance:

- Visual inspection for damage and cleaning residues, optical magnification (10-fold) is recommended for checking.

### Sterilisation:

- Sterilise only with hot air or in the autoclave. Recommendation: Temperature 134°C, pressure 3 bar, exposure time 5 min., drying time 15 min.

### Storage:

- Store instruments only in sterile packages that are proven to be suitable
- The mandrels must not be stored in a damp environment (corrosion). This applies also to stainless mandrels.

## Safety instruction:

- Application by appropriately trained persons only.
- Visual inspection before every application.
- Always wear safety goggles.
- Mounted tools must not show unbalance, the mandrel could break otherwise. Adjust unbalanced tools at low speed before every use.
- Never exceed the speed recommended for the relevant item mounted (grinder, burnisher, etc.).
- Stop using damaged mandrels (e.g. galvanic coating damaged, screw cannot be tightened sufficiently, mandrel is unbalanced).
- Mandrels with screw are only intended for clockwise rotation (Exception: Mandrel with left-hand thread – only for counter-clockwise rotation).
- Use mandrels with screw only with a washer. Avoid excessive tightening of the bolt (danger of breaking).
- Avoid sudden change of speed.
- Work with moderate contact force (max. 3 N).
- Mandrels for angle piece (RA) exclusively may be used invasively.
- Invasively used mandrels must be made of stainless steel.
- RA and FG mandrels must always be constrained along the whole shaft length.
- Never mount larger or heavier tools than those indicated below.

Maximum permissible speed (revolutions per minute)

| Item ref. no. | Discs with max. Ø 10 x 2 (< 1 g) | Discs with max. Ø 22 x 1 (< 1 g) | Discs with max. Ø 22 x 3 (< 3 g) | Moore- Discs max. Ø 15 (< 1 g) | Sand paper strips | RA-extension |
|---------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|-------------------|--------------|
| 303-11        | 30,000                           | -                                | -                                | -                              | -                 | -            |
| 303-12        | 30,000                           | -                                | -                                | -                              | -                 | -            |
| 303-13        | 30,000                           | 20,000                           | 10,000                           | -                              | -                 | -            |
| 303-14        | 30,000                           | 20,000                           | 10,000                           | -                              | -                 | -            |
| 304-09        | 30,000                           | 20,000                           | 10,000                           | -                              | -                 | -            |
| 304-10        | 30,000                           | 20,000                           | 10,000                           | -                              | -                 | -            |
| 304-25        | 20,000                           | -                                | -                                | -                              | -                 | -            |
| 308-10        | -                                | -                                | -                                | -                              | 15,000            | -            |
| 313-02        | -                                | -                                | -                                | 20,000                         | -                 | -            |
| 313-06        | -                                | -                                | -                                | 20,000                         | -                 | -            |
| 313-03        | -                                | -                                | -                                | 10,000                         | -                 | -            |
| 313-04        | -                                | -                                | -                                | 10,000                         | -                 | -            |
| 350-01        | 20,000                           | -                                | -                                | -                              | -                 | -            |
| 320-13        | -                                | -                                | -                                | -                              | -                 | 10,000       |