

## Short Manual, Electric Rotary Module with Servo Motor ERM

This document is only valid in combination with the assembly and operating manual.

### Replace radial shaft sealing rings

If oil leaks from the rotary module, the radial shaft sealing rings must be replaced immediately. If the radial shaft sealing rings are replaced erroneously, components may become damaged. The warranty is void. This is why we recommend contacting SCHUNK Service and having the radial shaft sealing rings replaced by SCHUNK.

#### WARNING

##### Risk of burns due to contact with hot surfaces and hot oil!

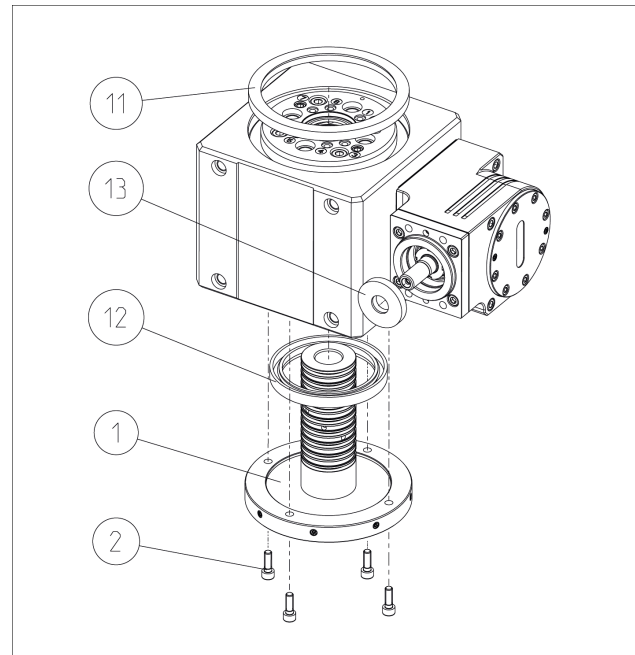
- Prior to starting work on the module, allow it to cool down to no more than 40°C.
- Measure the surface temperature before touching the module.
- Wear protective gloves.

#### CAUTION

##### Risk of injury due to leaking hydraulic oil!

Hydraulic oil may cause irritation if it comes into contact with the skin and eyes. If hydraulic oil leaks, this poses a danger of slipping.

- Avoid skin contact with hydraulic oil.
- Wear protective gloves and safety goggles.
- Properly remove spilled or leaking hydraulic oil immediately.



- Determine the inset of the radial shaft sealing ring (11) in the housing. To do this, use the press-in die.
- Place an oil trough underneath and drain the oil.
- Disassemble distributor flange, if the radial shaft sealing ring (12) must be replaced.
- Disassemble motor and motor add-on kit, if radial shaft sealing ring (13) is to be replaced.

#### NOTICE

##### Property damage due to improper disassembly of the radial shaft sealing ring!

Do not bore radial shaft sealing ring using a drill. When drilling, chips may enter the bearing damaging it.

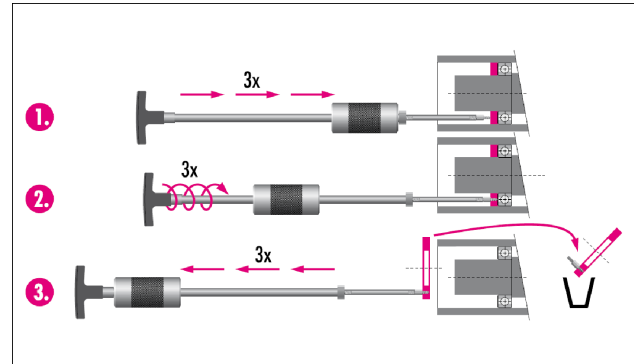
- SCHUNK recommends the use of the tool "Seal Puller SP 50 (Simatool®)". A corresponding disassembly kit is included in the SCHUNK maintenance kit.
- Remove radial shaft sealing rings with a suitable disassembly tool. Observe the instructions provided by the tool manufacturer, section [Replace radial shaft sealing rings](#)

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### NOTE

- It is possible that oil may have accumulated between the radial shaft sealing rings and the bearings and is unable to drain through the drain holes.
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- Carefully clean the area between radial shaft sealing ring and bearing.
  - Fill the interior of the radial shaft sealing ring (11) and the area between the sealing lip and the dust lip about 40% full with sealing grease (Amblygon TA 15/2).  
Fill interior of the radial shaft sealing ring (12) about 40% with sealing grease (Amblygon TA 15/2).  
Fill interior of the radial shaft sealing ring (13) about 40% with sealing grease (Mobil Grease XHP222). If required, apply around the same amount of grease to the bearing.
  - Rub in the same grease to the sealing lip of the radial shaft sealing ring.
  - Press in the radial shaft sealing ring with a suitable device.
    - ✓ Suitable equipment (press-in die) are available from SCHUNK together with the radial shaft sealing rings as a maintenance kit.
    - ✓ Make sure that the radial shaft sealing ring is not pressed it at an angle.
    - ✓ Do not mount the radial shaft sealing ring using a hammer.
    - ✓ Make sure that the press-in depth varies slightly compared to the depth determined under point 1, so that the sealing lip on the new radial shaft sealing ring is applied to a different point. Otherwise leaks can occur.
  - Carefully lift the sealing lip of the radial shaft sealing ring (11) with a blunt, thin object so that the trapped air can escape.
  - Check contamination of the oil, if required use new oil. Check oil quantity, if required top up oil.
  - Fill both oil chambers separately, see chapter "oil change" in the operating manual and mounting instructions.

### Disassemble radial shaft sealing rings using the tool "Seal Puller SP 50"



Source: [www.simatec.com](http://www.simatec.com)

- Hit tool three times in the sealing ring.
- Screw in tool three revolutions.
- Hit the tool in the opposing direction.
- ✓ The sealing ring is removed from its original position.

### NOTE

A video at [www.simatec.com](http://www.simatec.com) also shows the disassembly of a sealing ring with the "Seal Puller SP 50".