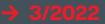


Reliable sealing for every eventuality

Sealing systems for a variety of environments and applications **Oil seals**





Oil seals Guideline

Oil seals are rather like a barrier along a rotating shaft. When the gear unit is stationary, the sealing lip presses against the shaft surface. Gaps are closed and the various components are sealed off from each other.

When the shaft rotates, the sealing lip floats on a film of lubricating oil, rather like a water-skier. Provided a motor runs constantly and smoothly, hardly any frictional forces are generated and wear is minimal.

Positioning drives with a fast pulsed voltage supply and a constantly changing direction of movement create challenging conditions for sealing rings. The intervals are too short to enable the sealing lip to float, and high friction causes temperatures to rise and wear to increase.

For the motor shaft and gear shaft **NBR** oil seal **For standard applications**

- Moderate ambient conditions
- Motor speeds up to 1800 min⁻¹
- Maintenance interval 10 000 h
- -40 °C to +80 °C

For the motor shaft **Premium Sine Seal*** oil seal **For demanding applications**

- High switching frequencies and/or motor speeds up to 6000 min⁻¹
- Maintenance interval 20 000 h
- -25 °C to +115 °C

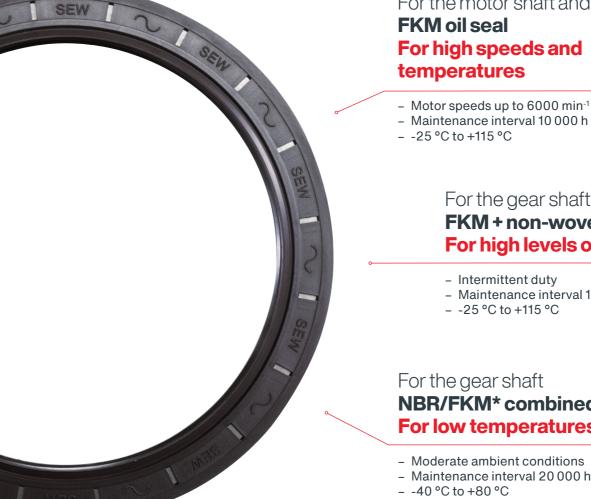
For the motor shaft **Premium Sine Seal conductive** oil seal

Protects against electrical erosion

- Prevents the passage of current into the motor bearing
- Motor speeds up to 6000 min⁻¹
- Maintenance interval 10 000 h
- -25 °C to +115 °C



- High switching frequencies
- Maintenance interval 20 000 h



Whatever the application or environment, **SEW-EURODRIVE** has specially selected the appropriate seal for the relevant gearmotor requirements. In close collaboration with our suppliers, we have been repeatedly setting new standards for the past 60 years with the sealing technology we use in our drives.

For the motor shaft and gear shaft For high speeds and

- Maintenance interval 10 000 h

For the gear shaft FKM + non-woven fabric oil seal For high levels of soiling and moisture

- Intermittent duty - Maintenance interval 10 000 h - -25 °C to +115 °C

NBR/FKM* combined sealing ring For low temperatures

Maintenance interval 20 000 h

Other topics that might be of interest to you Lubricants Gear units Motors



SEW-EURODRIVE GmbH & Co KG

Ernst-Blickle-Str. 42 76646 Bruchsal/Germany T+49 7251 75-0 F+49 7251 75-1970 sew@sew-eurodrive.com www.sew-eurodrive.com

