MERKEL RADIAMATIC™ R 35 AND R 55

Merkel Radiamatic R 35 and Merkel Radiamatic R 55 Simmerring® shaft seals help ensure long-term, reliable performance of the main bearing in wind turbines. The main bearing in a wind turbine is a key component in the generation of electricity from this renewable energy source. For a zero-defect performance the bearing seal has to fulfill the highest requirements.

The bearing seal must prevent lubricants from escaping the bearing rings and reliably protect the bearing from a great variety of environmental degradation over time. Dependable functionality across a wide temperature range is required, as well as easy installation during maintenance without the need for an extensive disassembly.
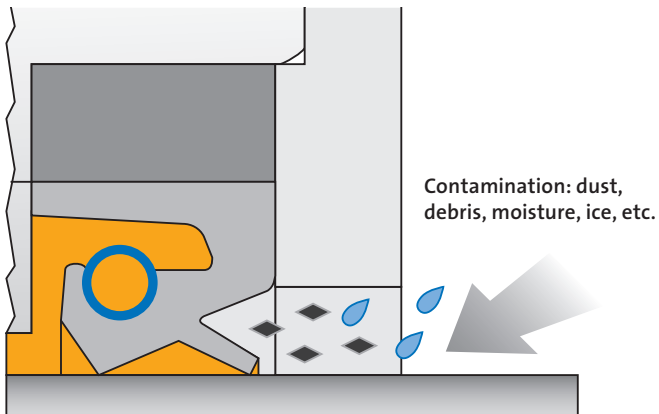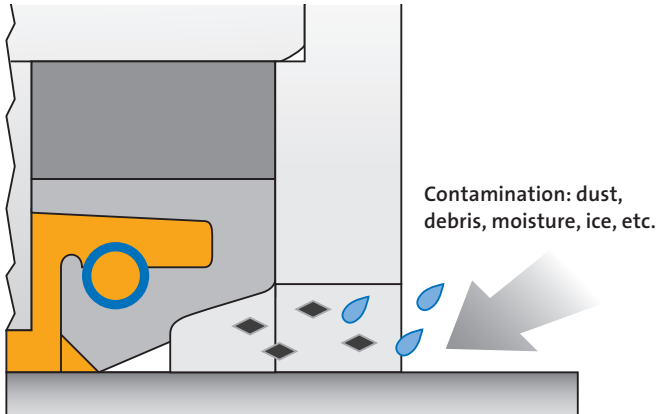
Two Products, One Convincing Concept

With the Merkel Radiamatic R 35 and R 55, Freudenberg Sealing Technologies offers the right solution for all main bearings that are lubricated by oil or grease—whether installed in original equipment, or during maintenance. The type Merkel Radiamatic R 35, made from HNBR or NBR, has proven its suitability for wind turbines for more than 15 years. The new Merkel Radiamatic R 55 offers superior protection from environmental conditions. This seal is based on the type Merkel Radiamatic R 35 but, in addition, it features a deflector lip which thoroughly protects the bearing from surrounding conditions.

VALUES FOR THE CUSTOMER

- Perfect protection of the main bearing through an additional dust lip

- High sealing function through constant line pressure along the sealing lip

- Compact design

- Available for shaft diameters of up to 3,000 mm

- Reliable performance from −40 °C to +80 °C

- Extremely wear-resistant ensuring long service life

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FEATURES AND BENEFITS

Application examples

Contamination: dust, debris, moisture, ice, etc.

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The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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