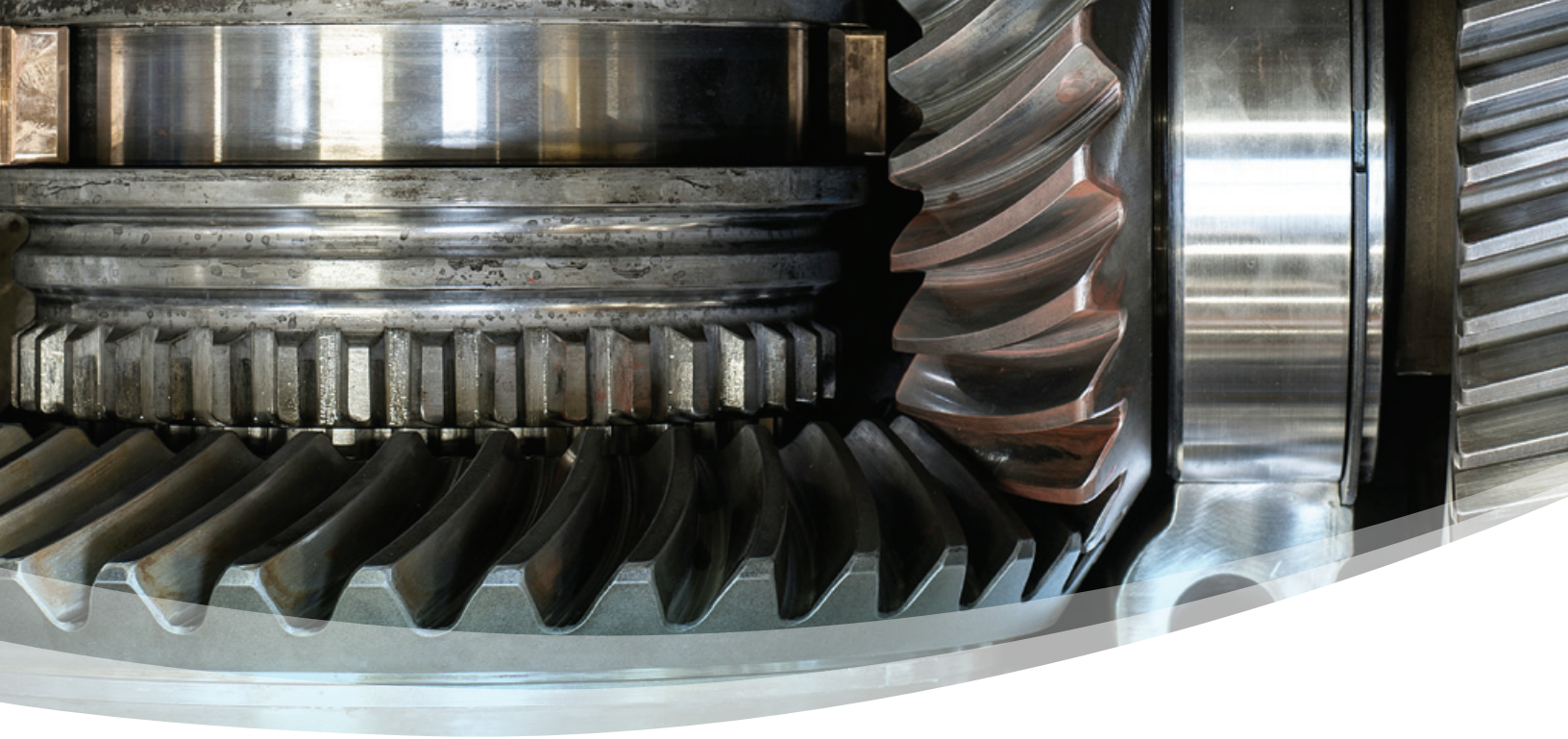


# POWER TRANSMISSION



FREUDENBERG-NOK  
SEALING TECHNOLOGIES

**FREUDENBERG-NOK**  
INNOVATING TOGETHER



## GEARING UP FOR THE FUTURE

To keep your gearboxes turning, turn to Freudenberg–NOK Sealing Technologies for the most advanced gearbox and coupling components. Today's power transmission industry faces ever-growing challenges when it comes to increased lifecycles, reduced maintenance costs, and increased fluid compatibility. We lead the way with material compounds specifically designed to reduce friction, reduce temperature, increase lifespan, and stand up to today's modified oil and grease recipes.

Our commitment to service complements our reliable products. We believe in looking at the entire tribological system to help maximize performance. This includes everything from

how the shaft is prepared to how the seals are installed. In conjunction with Klüber Lubrication, another Freudenberg company, we can optimize the seal material and lubrication combination through our Lube & Seal program. Our test facilities can conduct a full range of product testing, including customer-specific testing. And once we optimize the entire system, we can provide that solution anywhere in the world through our global manufacturing and sales footprint.

### SIMMERRING SHAFT SEALS

Premium-quality Simmerring shaft seals have a proven record of durability and longevity in a variety of applications. The seals incorporate the cutting-edge materials 72 NBR 902 and 75 FKM 585 for long life and low friction, providing excellent wear resistance while handling the pressures of non-vented gearboxes. Simmerring shaft seals are available in imperial and metric sizes.



### SIMMERRING MSS1

Comprised of a standard sealing module combined with an inner buffer, the MSS1 (Modular Sealing Solution) delivers contaminant exclusion, including particles from gear wear, with low friction. Vertical sealing applications traditionally use a primary seal and a second redundant seal. The MSS1 replaces both seals, greatly reducing friction and required installation space.



## COUPLING COMPONENTS

**Expertise in highly wear-resistant materials** defines the Freudenberg elastomer components for flexible couplings. Typical compounds include polyurethane and nitrile rubber. For turbo couplings we have an extensive standard range of radial shaft seals and calculation programs to match the design of the spring to the centrifugal force in the application.



## SEALING CAPS

**Elastomer-covered sealing covers** are used as static seals, which can even seal bores with rough surfaces. These sealing caps also handle heat expansion and can be made in a variety of materials depending on the application need. Different types of sealing caps are available.



## ADVANCED MATERIALS

**Our high-tech materials** 75 FKM 260466 and 75 FKM 170055 are enhanced FKM materials formulated to perform in today's synthetic oils while delivering superior high-temperature resistance. Both materials are specifically designed to extend the service lifetime of gearboxes with significant lower wear band and shaft run.



## BUSHINGS AND MOUNTS

**Vibration control bushings and mounts** consist of an inner and outer housing which are firmly bonded to each other via a vulcanized, prestressed elastomer layer. Ultra bushings are an ideal component for isolating vibration. Spherical mounts isolate vibration and also accommodate increased joint deflection.



**Freudenberg–NOK Sealing Technologies**

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