SLIP RINGS FOR CONSTRUCTION MACHINERY AND CRANES

Rugged design for tough environments

www.moog.rekofa.com

REKOFA

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SYSTEM OVERVIEW AND BENEFITS

We supply the major crane and excavator manufacturers with slip ring transmitters and hydraulic components. Rotary encoders have also been incorporated into our rotary distributors for many years, having been tested not only in a climatic chamber but also in a vibrator. We work in close cooperation with our customers to implement their requirements.

Slip ring transmitters, often called rotary joints or transfer systems, are electromechanical products for the transfer of currents, electrical signals or media from a fixed to a continuously rotating part. Slip ring transmitters are used where rotational movements above 360° are required and a drag chain would hinder this movement. A slip ring transmitter usually consists of a slip ring assembly and a current collector – and in most cases an additional covering. Moog Rekofa has been designing and manufacturing current transfer systems for more than 90 years. They are distributed globally from our headquarters in Antweiler, Germany, with additional manufacturing in the US.

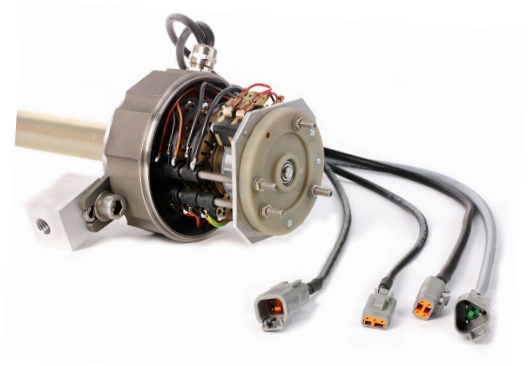
In addition to the many standard systems we have, with our own R&D department and working closely together with our customers, we can also design systems right from the initial concept.

PRODUCT SPECIFICATIONS

Our products are designed to perform the needed functions under adverse conditions.

The slip rings from Moog Rekofa are designed and developed for the construction machinery and crane markets. A challenge for construction machinery is that it must operate in diverse environmental conditions around the world. For example, the machinery must perform in the low temperatures of snow areas or in very hot conditions in dry regions.

Slip rings from Moog Rekofa guarantee reliable transfer of signals, high current, sensor electronic and data transfer.



TECHNICAL INFORMATION

Operating speeds:	up to 100 rpm
Current rating:	< 1 mA up to 100 amps, customization to transfer > 1000 amps possible
Voltage rating:	< 1 mV up to 680 volts AC/DC, customization to transfer > 1000 volts AC/DC possible
Data transfer:	CANbus up to 1000 kbit/sec Ethernet up to 100 Mbit/sec
Temperature range:	-58 °F up to 212 °F (-50 °C up to 100 °C)
Contact material: available	Brass, alternative silver, rhodium plated
Protection class:	IP69K
Compatible:	With angle encoder: analog, digital CANopen, or customer specified With hydraulic rotary joint (swivel): fluid like: oil, gas, diesel, glycol, water Up to 7,300 psi in steel, casted steel, stainless steel Or 5,100 psi in aluminum

ADVANTAGES

- Maintenance free, more than 10 million revolutions
- Housing parts are designed for difficult environmental conditions
- Sea water, UV and oil resistant
- Compatible with additional sensors like an angle encoder
- Data transfer up to 400 Mbit/sec with contacted slip rings, up to 2 Gbit/sec with contactless slip rings
- Customized fixing flanges or torque arms
- Slip rings with customer specified connectors

TAKE A CLOSER LOOK

Learn more about Moog Rekofa solutions for construction machinery and cranes. Visit our web site for more information.

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This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

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