



ROTARY SOLUTIONS FOR YOUR ROBOTS

INNOVATIVE AND RELIABLE SOLUTIONS
FOR YOUR INDUSTRY 4.0 ROBOTS



MOOG

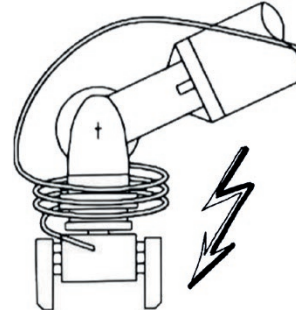
REDUCE COSTS WITH SLIP RINGS

In many applications, conventional energy chains significantly restrict robots' freedom of movement. Programming problems and repetitive maintenance are the costly result. Not only the hose harnesses, but also the tools and robots themselves are prone to damage.

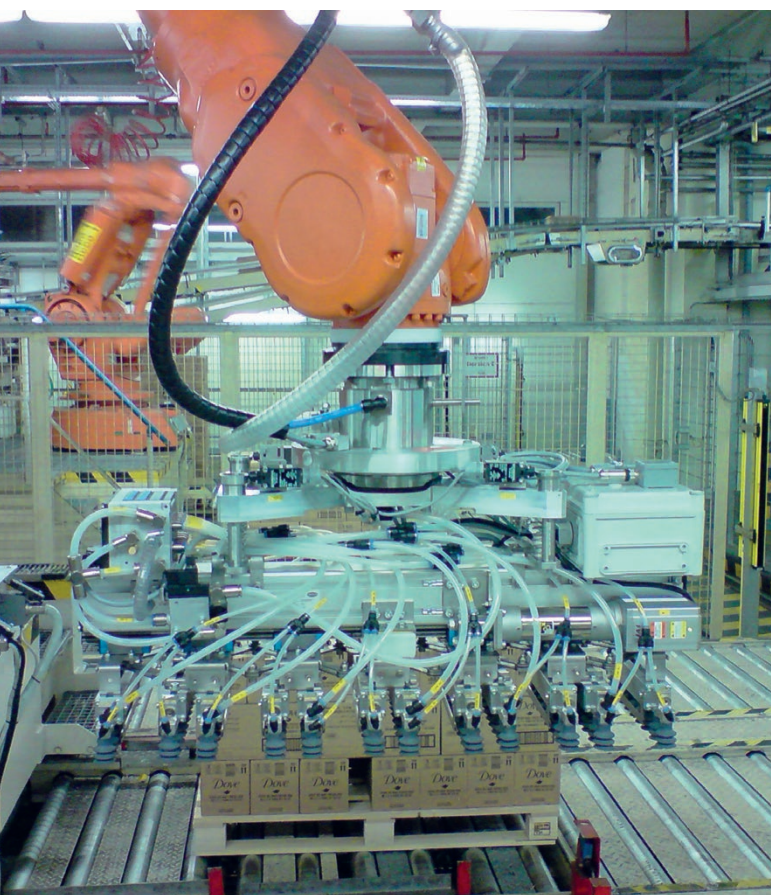
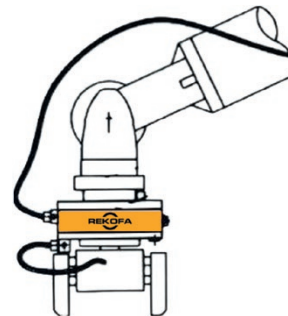
Thanks to reliable slip ring transmitters from Moog Rekofa GmbH, the power chain is no longer required from axis 6 onwards, and the tool can rotate endlessly.

Fitted with ISO flanges and plugs, our IP-protected and maintenance-free Rekofa products can be fitted between the robot and tool in the shortest possible time. The slip ring is equipped with a hollow shaft or can even bear the weight of the tool and product being handled.

With energy chains >>> Max. 2 – 3 rotations



With Rekofa slip ring >>> Endless rotation



TECHNICAL SPECIFICATIONS

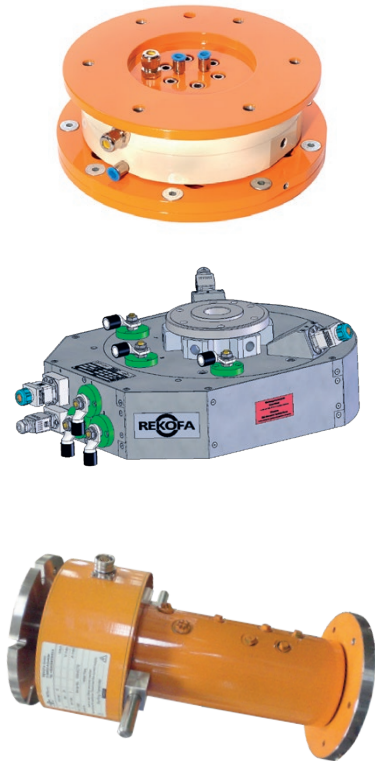
- Data: Up to 1 GBit/s
- Current: Up to 1000 Amps
- Lifetime: Up to 250 million rotations
- Media (e.g. air, water) combined with high voltage current and data
- Multiple ball bearing joints
- Incl. IP67-class corrosion-proof housing
- Also available with \varnothing 160 mm ISO flat terminals
- Light yet stable
- Standard or customer-specific components

STANDARDS FOR GLUING, WELDING AND PALLETIZING APPLICATIONS

Moog Rekofa GmbH has developed and manufactured slip rings since 1965. Standard solutions for the latest robot axes for over 15 years, and in close cooperation with customers in the automation industry. Over 15% of our employees work in design and R&D, to ensure that we can meet both standards and customer requests.

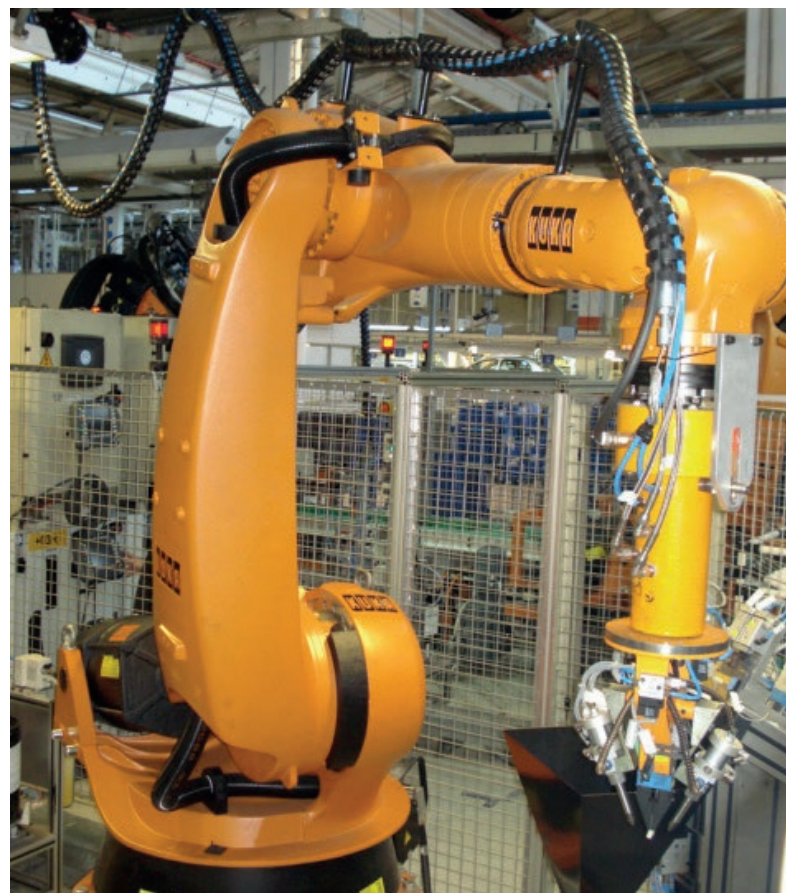
Our slip rings are available in toolbearing versions as well as with hollow shafts.

The latter are used in applications such as vehicle roof and glazing installation. A video camera controls bonding agent application exactly when it is applied, and the signal (e.g. Video 150 MHz or EthernetIP) is transmitted through the gold-wire rotary joint to the control computer. Optical and capacitive solutions are also used, depending on the application.



ADVANTAGES

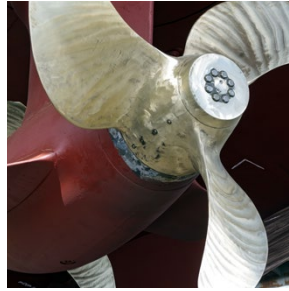
- Endlessly rotating axes
- Increased robot freedom of movement
- Cycle reductions / Increased productivity
- Reduced maintenance costs
- Considerable increase in running time
- No EMC problems
- Profinet-tested
- Bonding, palletizing and welding
- Current, data and media supplied in a single product
- Up to 250 rpm



APPLICATIONS FOR MOOG REKOFA ROTARY SOLUTIONS



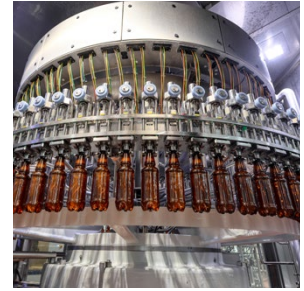
CONSTRUCTION



MARINE & OFFSHORE



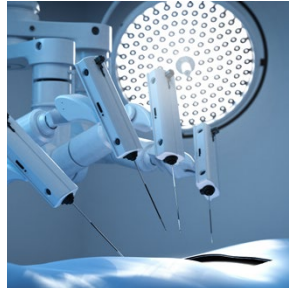
WIND ENERGY



INDUSTRIAL MANUFACTURING



AUTOMOTIVE & ROBOTICS



MEDICAL



IRRIGATION



AND MANY MORE

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