

Applications for REKOFA™ Hybrid Rotary Joints



Automation



Food & Beverage



Construction



Rotating Doors



Irrigation



Printing



Medicine



Radar



POD



Special Applications



Textile



Packaging



Defence



Machine Tools



Wind generator

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Moog Rekofa GmbH – Robotic Solutions
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ROTARY JOINTS FOR YOUR ROBOTS

MODERN, RELIABLE SOLUTIONS
FOR YOUR INDUSTRY 4.0 ROBOTS



MOOG



MOOG

REDUCE COSTS WITH SLIP RING TRANSMITTERS

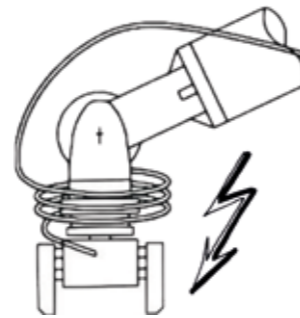
In many applications, conventional energy chains significantly restrict robots' freedom of movement. Programming problems and repetitive maintenance are the costly result. Not only the hose harnesses, but also the tools and robots themselves are prone to damage.

But that is now a thing of the past.

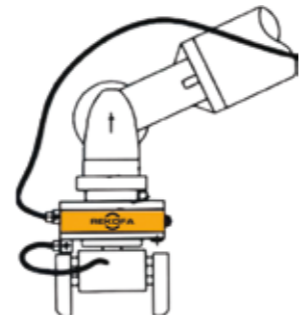
Thanks to reliable slip ring transmitters (rotary joints) from Moog Rekofa GmbH, the power chain is no longer required from Axis 6 onwards, and the tool can rotate endlessly.

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 rotary joint 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 rotary distributor >>> Endless rotation

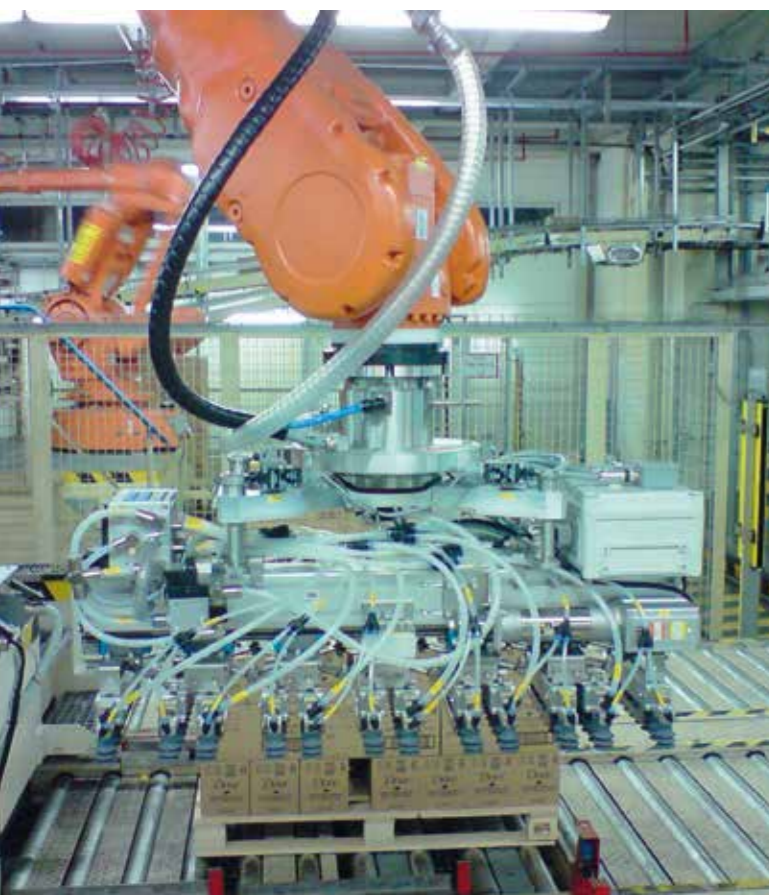


STANDARDS FOR GLUING, WELDING AND PALLETIZING APPLICATIONS

Moog Rekofa GmbH has developed and manufactured rotary joints since 1965. Standard solutions for the latest robot axes for over 15 years, and in close co-operation 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 ring transmitters 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 Ethernet/IP) is transmitted through the gold-wire rotary joint to the control computer. Optical and capacitive solutions are also used, depending on the application.



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

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
- **NEW:** up to 250 rpm!

