

UP TO 150 A, 1000 V AND 1 GBIT/S



SLIP RINGS – INDUSTRIAL LINE

Transmission of power, signal and industrial ethernet

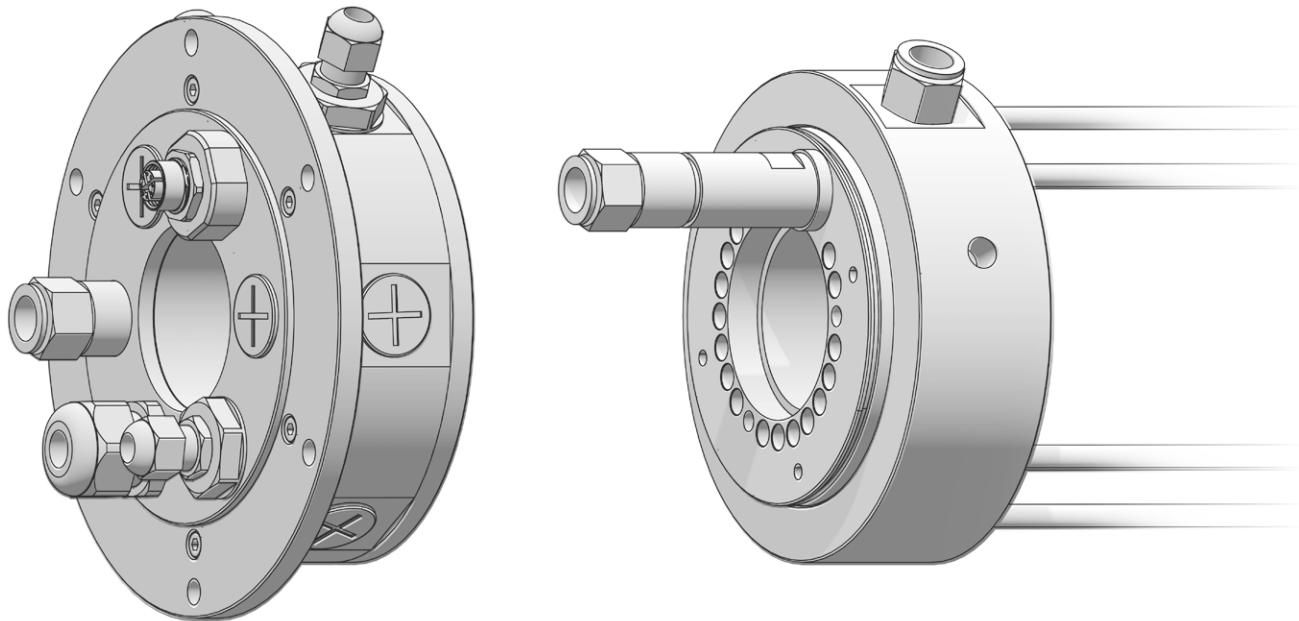
Slip ring platform with Gigabit transmission

The modular slip rings of the “Industrial Line” are designed for a freely usable hollow shaft of up to 100 mm or flange mounting. In addition, any form of customer-specific adaptation is possible, both mechanically and electrically.

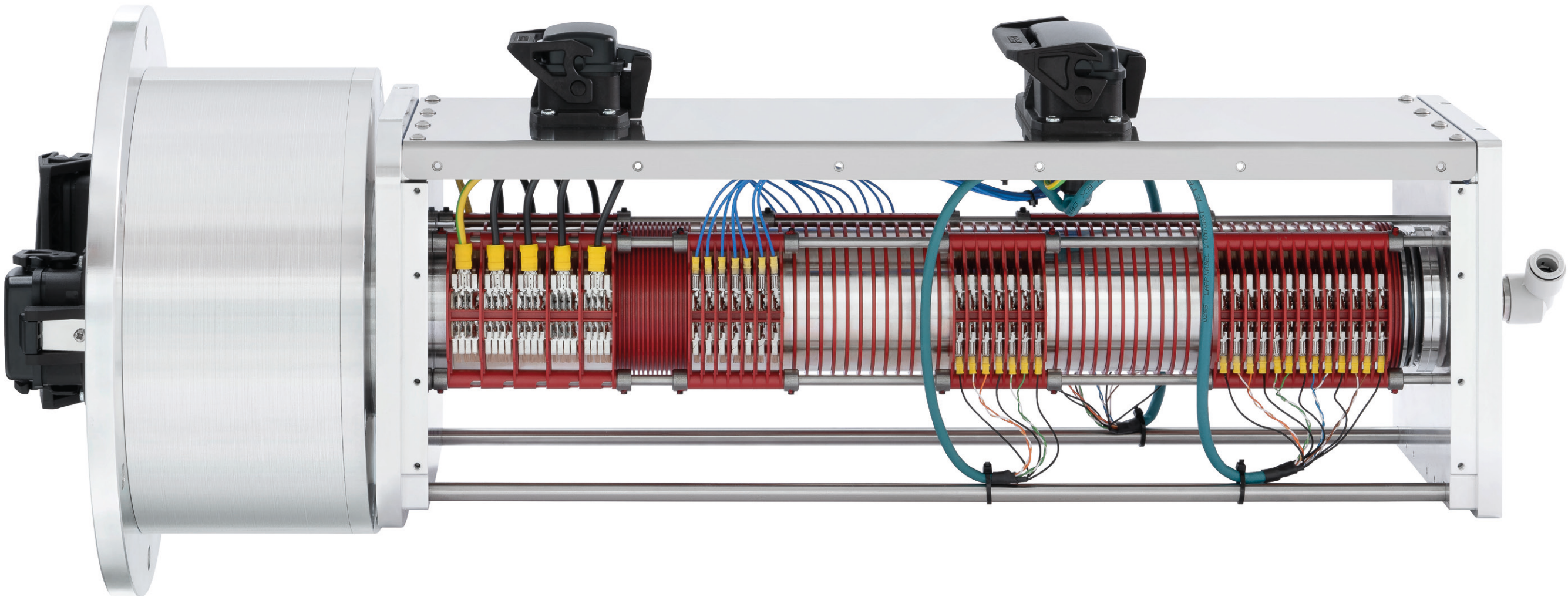
- Features
- Individual configuration for all applications: The application determines the mechanical and electrical connection.
 - Particularly suitable for high-end applications
 - Data transmission for Industrial Ethernet up to 1 Gbit/s
 - Design of the connections as cables, plugs or terminals
 - Not only for electrical currents and signals - also for the transmission of liquids and gases, an optimal solution can always be integrated in the slip ring.
 - Robust overall concept

EtherNet/IP, PROFINET, EtherCAT, CANopen, SAE J1939, IO-Link, Modbus and many more

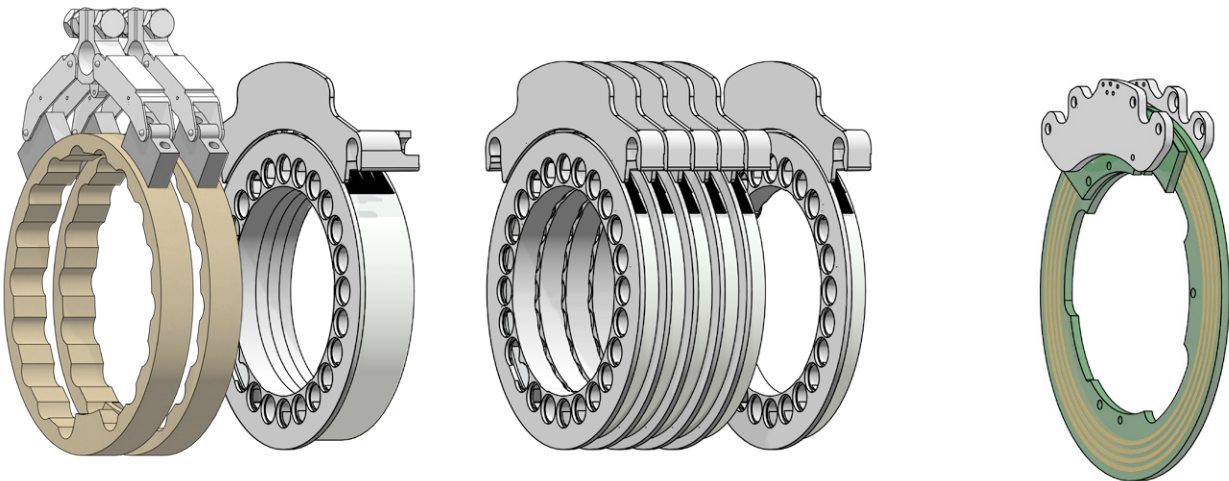
Electrical connectionsMedia feedthrough



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| Electrical connection technology <ul style="list-style-type: none">• All common connection technologies for both stationary and rotating level | Media feedthrough of liquids and gases <ul style="list-style-type: none">• Single- or multi-channel media feedthrough• Single-channel media feedthrough also outside the central feedthrough• Screw-in version or for flange mounting |
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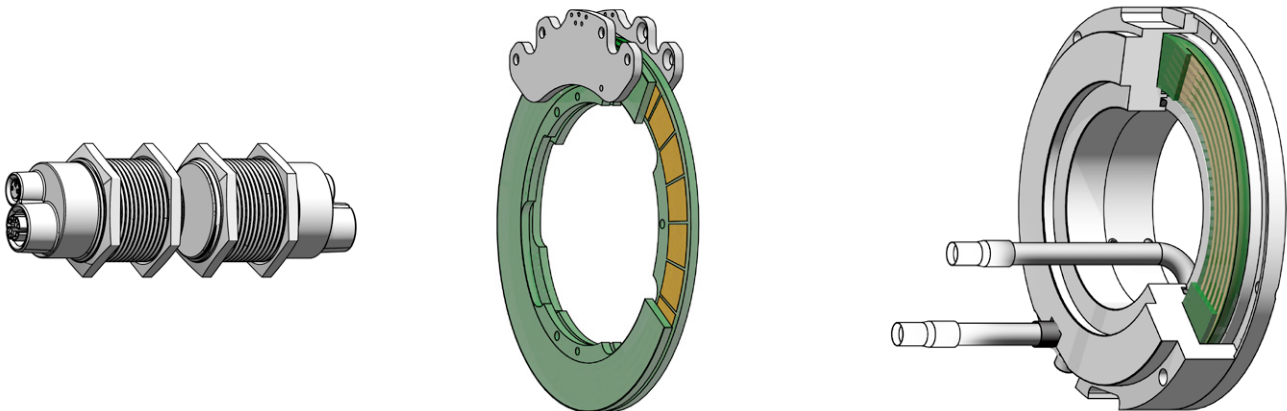


Load transmissionSignal and data transmission



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| Ring modules
Brushes or multiple wires / ring <ul style="list-style-type: none">• Load transmission up to 150 A / 1000 V (brushes)• Load transm. up to 70 A / 750 V (multiple wires)• Even at high speeds• Three-phase, motor or heating current | Ring modules
Multiple wires / ring <ul style="list-style-type: none">• Data transmission Ethernet up to max. 1 Gbit/s• Highest transmission reliability / extremely robust | Pancake modules
2 PCB discs with sliding contacts <ul style="list-style-type: none">• Data transmission Ethernet up to max. 1 Gbit/s• Significant space savings thanks to the concentric arrangement of the lines |
|--|--|---|

Signal and data transmissionIntegrated sensor technologyExpansions



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|---|--|--|
| Contactless transmission <ul style="list-style-type: none">• Data transmission Ethernet up to max. 1 Gbit/s• For high rotational speeds• Completely wear-free• Can also be combined with air feed-through | Integrated sensor modules <ul style="list-style-type: none">• Inductive, bearingless sensor technology• Speed and position detection• Optional temperature monitoring | Expansion modules (concept) also as a stand-alone solution <ul style="list-style-type: none">• Efficient retrofit for existing slip rings• Fast and cost-effective solution for upgrading to Gigabit Ethernet transmission• Also as a space-saving stand-alone solution |
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“High-end” transmission for Industry 4.0 / IIoT

One focus of the “Industrial Line” slip ring platform is the transmission of 1 Gbit Ethernet signals. Without any additional electronic components, interference-free, reliable, and direct transmission is guaranteed via ring, disc, or contactless modules. The Ethernet modules are bus-independent and cost-optimized solutions.



Design examples

- Hollow shaft mounting
- Free cable ends for power and signal transmission
- RJ45 connectors for data transmission



- Flange mounting
- Industrial connectors for power transmission
- M18 connectors for data transmission
- With integrated and protected bearingless encoder



- Flange mounting
- Free cable ends for power/signal transmission (rotor side)
- M18 connectors for power transmission
- M12 connectors for data transmission (stator side)
- Single-channel compressed air feedthrough



- Flange mounting
- Terminal box (stator side)
- Screw terminals (rotor side)





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