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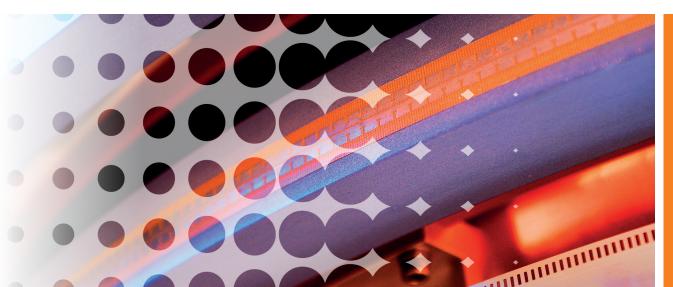
With Business Partners in

China Singapore

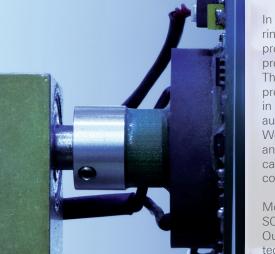
South Korea

Australia









In virtually all high-tech industries our slip ring and rotary joint solutions successfully provide the rotating interface behind the

The outstanding quality of our precision products lead the field and are proven in the medical, defence, surveillance, automation and industrial markets.

We maintain a global network of sales and service establishments so that we can be close to our customers in over fifty

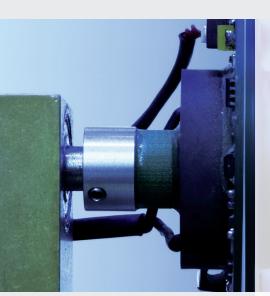
countries throughout the world.

More than 3,000 customers rely on SCHLEIFRING solutions.

Our customers are specialists in complex technical products in aerospace, energy industry and automation markets as well as the medical sector.

SCHLEIFRING offers a wide range of slip rings and rotary joints ranging from simple standard designs to highly complex customer specific systems often using several hundred rings.

These slip rings and rotary joints facilitate the transfer of power, electrical signals, all common data signals, Gigabit Ethernet, optical signals and media through a rotating interface from stationary to rotating elements.



# **Into One System**

# Fiber-Optic Rotary Joints | **Different Fiber Types**



FORJs transmit any kind of digital or anogue optical signals regardless of the

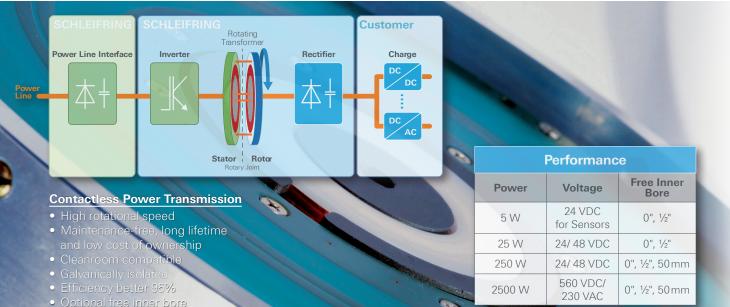
### Multi Channel FORJ Highlights

- Data rates up to 10Gbit/s and higher
- Not affected by EMI/ EMC
- Temperature range: -40 °C to 85 °C
- Capacity up to 60 fibers
- Direct connection No Multiplexers

Characteristics:

- Connect two or more fiber cables
- Signal is a modulated light wave No physical contact between rotating and stationary media
- No wear
- Maintenance-free Safe in explosive environments

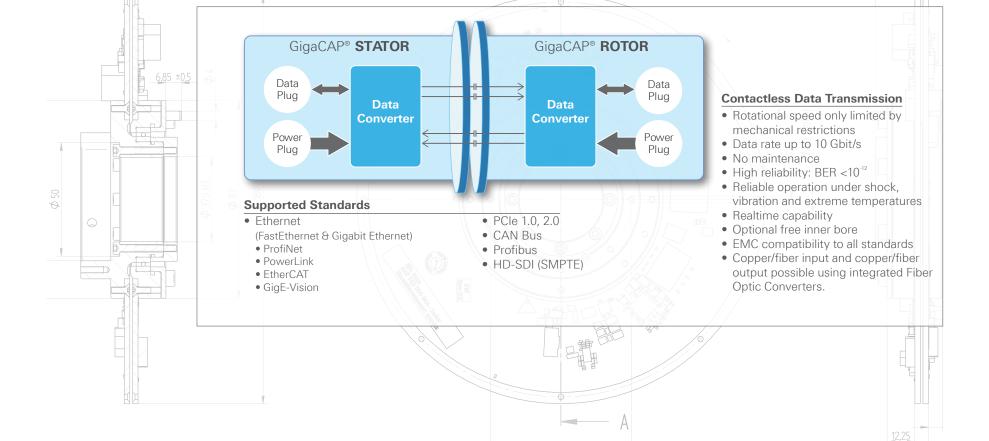
# Contactless Transmission | Power and Data GigaCAP®



## Single-channel optical rotary joints achieve optimum insertion and return loss figures due to the use of high-quality collimators aligned in four axes. Precision ball bearings allow high speed rotation in combination with long service life. Technologies such as bi-directional (BiDi)

tranceivers or Coarse Wavelength Divichannels to be passed through one fiber.





# Contacting Transmission | Power, Data & Media

Operating as rotary interfaces continually SCHLEIFRING's gold wire on gold ring transferring electrical power in any directechnology and silver-graphite brushes on tion, **contacting slip rings** provide the brass or silver rings allow excellent **signal** dynamic electrical connection between and data transmission: static and rotating mechanical elements.

### Slip rings are produced in various types and sizes depending on:

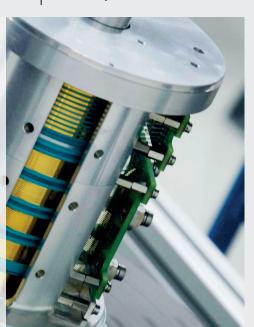
- Electrical requirements
- Mechanical property requirements
- Operating environment
- Customer needs

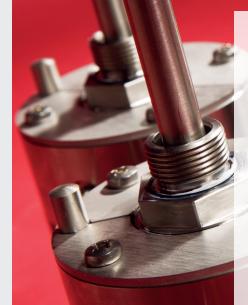
### From low to high power

SCHLEIFRING's silver braid brushes or silver-graphite brushes on silver rings as well as the gold wire technology provide for optimum power transmission.

Depending on the technical requirements, they allow excellent transmission from low power up to above 1,000 A at high rotational speeds and with a long service life.

- Extremely low electrical noise and contact resistance
- Long, low-maintenance service life High contact reliability
- Crosstalk isolation
- Reliable operation under shock,
- vibration and extreme temperatures • Transmission of all common bus



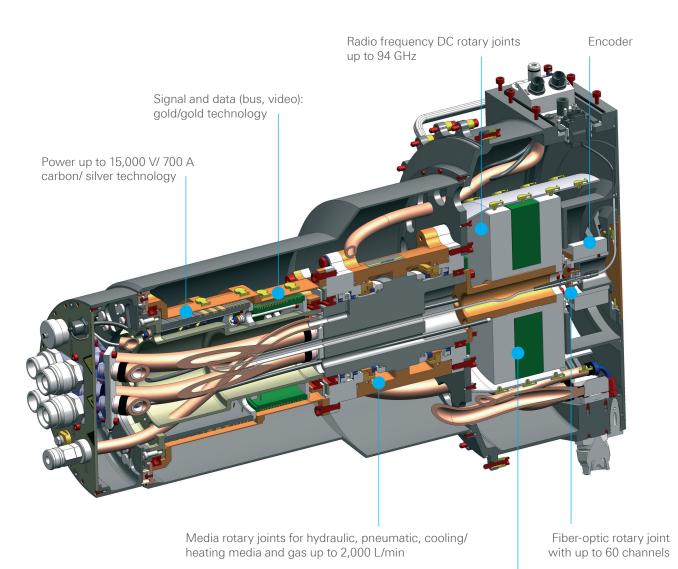


Media rotary joints allow sophisticated solutions for the transmission of fluids s<mark>uch as water</mark>, oil and coolants, as well as gas and air - optimized to the customer's

Media rotary joints integrated within slip ring assemblies are also available as complete rotary joint units consisting of media slip rings, optical rotary joints, encoders and/or microwave rotary joints.

### Specific solutions for:

- High pressures
- High speeds
- High flow rates



Contactless GigaCAP® data link up to 12,5 Gbit/s