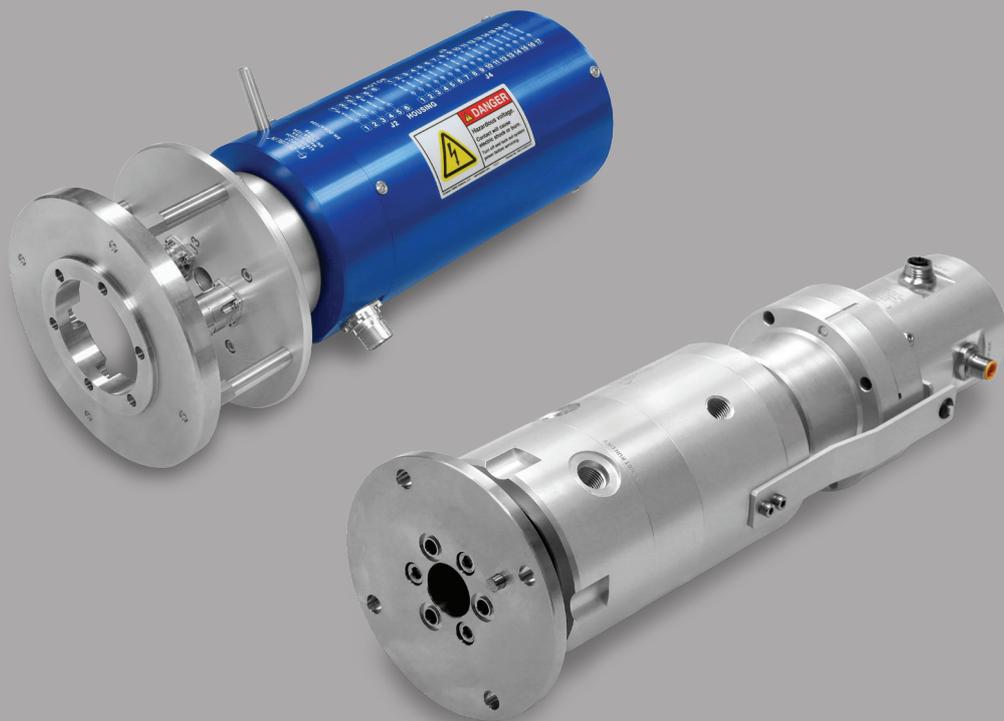


# ELECTRICAL SLIP RINGS

PROVEN SOLUTIONS DESIGNED TO MEET YOUR APPLICATION NEEDS



Be more **certain.**



# Let Nothing Stand in Your Way

Electrical slip rings require a number of technical considerations. Deublin is here to help you handle these complex requirements and seamlessly integrate the right solution – bringing your design to life with the best performance and highest reliability.

## TOP SLIP RING CONSIDERATIONS

- High IP requirements
- Mixed signal handling
- Contact resistance
- High-frequency impedance matching
- Operating temperatures
- Packaging constraints
- Electromagnetic interference
- Rotary union integration

Deublin has seen and solved them all

### Proven Solutions Configured from Our Standard Line

Even with all the technical puzzles your project may face, we may already have a solution at the ready. (See back for sizes, materials and other specs.)

- Fast, simple ordering
- Configured to your requirements by Deublin Engineering experts
- Global manufacturing operations poised to meet your needs

### Reliable Operation to Maximize your Machine Uptime

- Deublin slip rings in service for billions of revolutions in some of the most demanding applications
- Dust/water-tight solutions and mitigated EMI effects



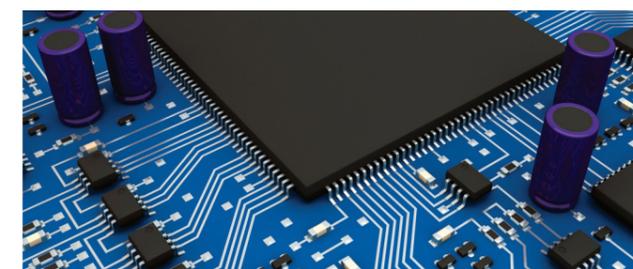
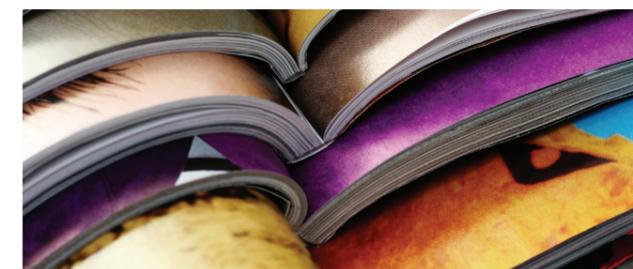
### Expert Custom Solutions for Unique Requirements

When your project has unique or challenging requirements, Deublin is determined to help you execute efficiently and effectively – providing technical expertise, a proven process and an Engineering mindset aimed at solving problems and optimizing results.

### Integrated Slip Ring-Rotary Union Packages

Save space and weight, and simplify sourcing and installation, with a smart, seamless solution instead of a separate slip ring mounted with a rotary union.

- Smaller size
- Lower weight
- Easier installation



**APPLICATIONS** WIND TURBINES • DIRECTIONAL DRILLING MACHINES • PACKAGING MACHINERY • INDUSTRIAL AUTOMATION EQUIPMENT • MEDICAL • SEMICONDUCTOR PRODUCTION EQUIPMENT

## Be More Certain.

- Global Presence
- Standard and Custom Solutions
- Engineering Expertise – Slip ring experts always available to help

Helping You Be More Creative | Responsive | Flexible | Certain | Limitless

## Let's Turn That Great Design into a Powerful Solution

Since 1945, Deublin has always been about Engineers working together to solve challenges. I invite you to bring your slip ring challenge to us today. When you do, you'll spend less time worrying about the details – and more on developing your next great idea.

## SLIP RING CAPABILITIES

<b>Voltage:</b>	Up to 6,000 Volts AC (single or three phase), 5kV RF or DC
<b>Current:</b>	Up to 250 Amperes AC or DC
<b>Signal types:</b>	Analog signals such as sensors, thermocouples, audio, video, etc. Digital signals such as Ethernet, PROFIBUS, CANbus, RS-232, RS-422, RS-485 and other logic control
<b>EMI shielding:</b>	Shielding of analog, digital, RF and Microwave signals to prevent crosstalk with other signals and/or AC/DC power Faraday shield style enclosures
<b>Slip ring brush technology:</b>	Monofilament or Poly filament precious metal (Palladium, Silver or Gold). Carbon based (Graphite, Copper/Graphite, Silver/Graphite). Brush material and technology is selected based on power or signal requirements
<b>Electrical connection:</b>	Cables/leads (length as specified by the customer), circular industrial or military connectors, modular industrial connectors, Ethernet, screw or spring terminal blocks, etc.
<b>Mounting:</b>	Flanged rotor mount, threaded rotor mount, or hollow rotor mount. Through bore slip ring (hollow rotor mount) is optional to allow line(s) for other media to be routed through the center of the slip ring
<b>Rotational speed:</b>	Up to 2,500 rpm
<b>Operating life:</b>	Up to 800,000,000 revolutions
<b>Ingress protection rating:</b>	Up to IP67 or NEMA 12

Deublin designs slip rings to a variety of channel counts, voltages and currents, communication protocols, operating temperatures, rotational speeds, mechanical vibration, and mechanical shock requirements as required by your application.

## GLOBAL MANUFACTURING FACILITIES



WAUKEGAN, IL • DIADEMA, BRAZIL • MAINZ, GERMANY • MONTEVEGLIO, ITALY • DALIAN, CHINA