



MOOG

Shaping the way our world moves™

MAKING THE IMPOSSIBLE POSSIBLE IN MOTION CONTROL

SLIP RING AND ROTARY SOLUTIONS
FOR MARINE APPLICATIONS



PRODUCT OVERVIEW

SLIP RINGS

ROTARY UNIONS

POD PROPULSION COMBINATION UNITS

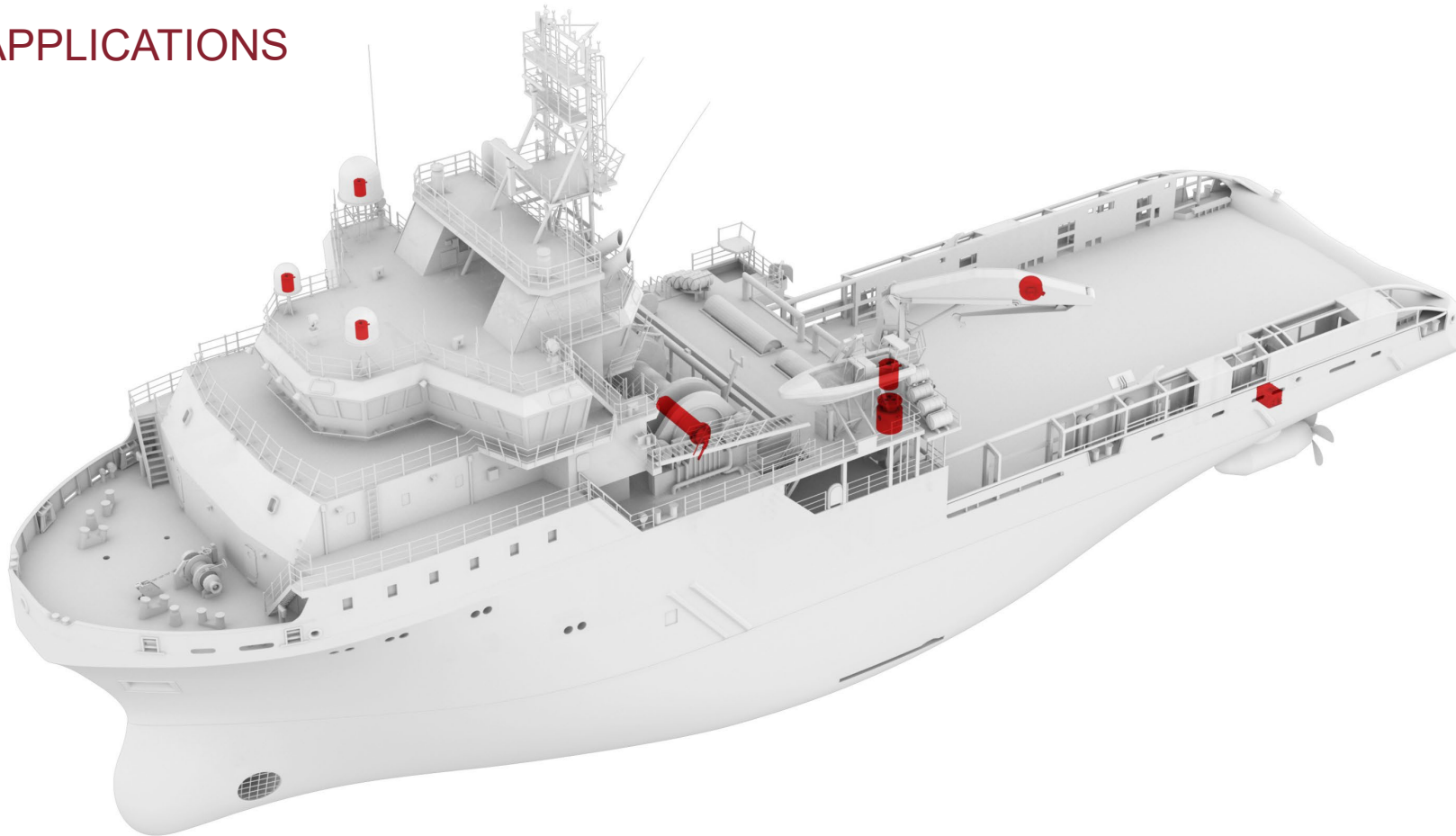
SPRING DRIVEN CABLE REELS

HOW TO LEARN MORE

CONTACT US

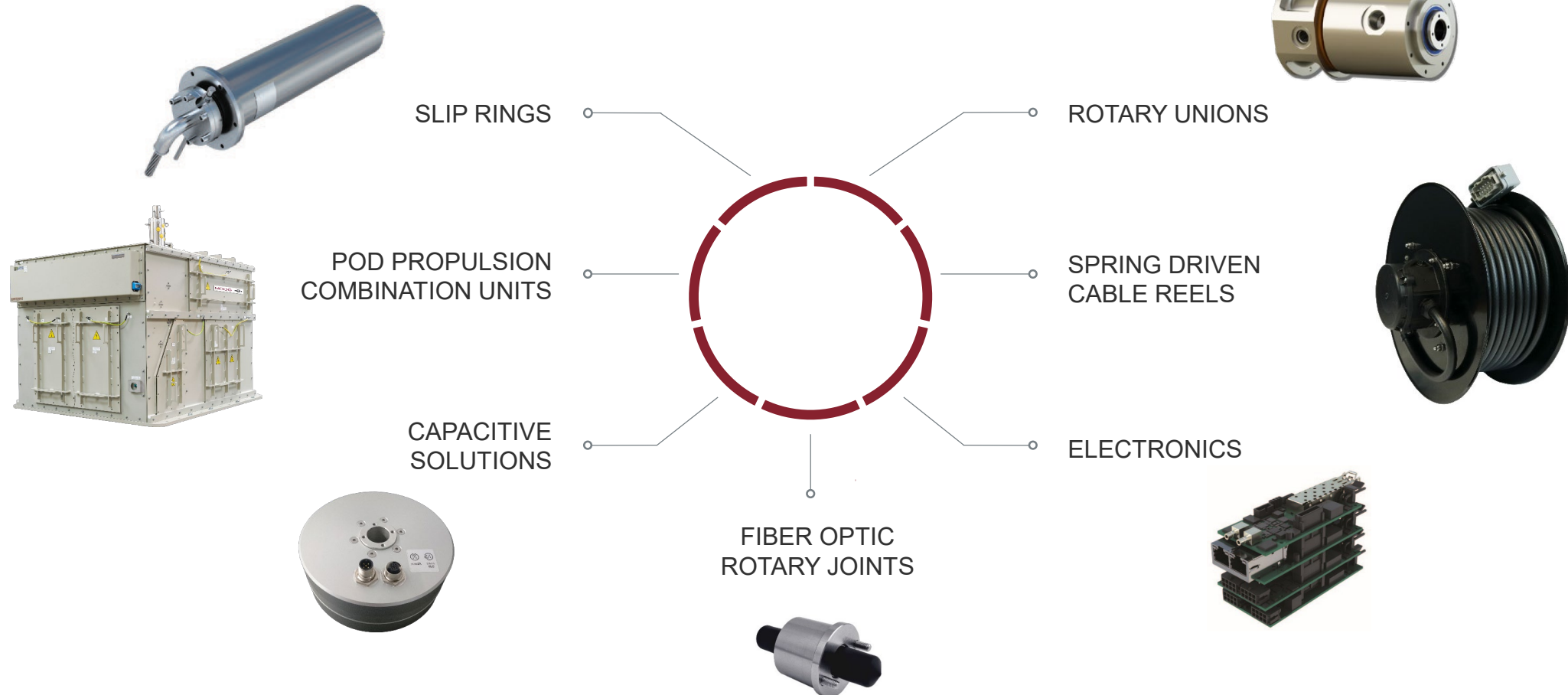
SLIP RING AND ROTARY SOLUTIONS

FOR MARINE APPLICATIONS



PRODUCT OVERVIEW

COMPLETE ROTARY SOLUTIONS



SLIP RINGS

FEATURES AND ADVANTAGES

ROBUST

RELIABLE

LOW MAINTENANCE

COMPACT DESIGN

STANDARD AND CUSTOMIZED SOLUTIONS

HIGHEST QUALITY STANDARDS



SLIP RINGS

TECHNICAL INFORMATION

- Hybrid technology: power, data and mediums transmission in one design
- Compact, protected housing (up to IP68)
- Current rating: up to 120 A per pass, parallel passes are used to support higher currents
- Voltage rating: up to 7.2 kV AC or higher if required
- Quantity of circuits as required by application (up to several hundreds)
- Analog video, CANbus, PROFIBUS®, DeviceNET™, 10BASE-T Ethernet, SHDSL, RS-485, Drive CLIQ™, TSN, etc up to 2 GBit/s
- Contacting technologies: composite brush, gold/gold contact, fiber brush and silver rivet
- Temperature range: -50 °C to 100 °C



ROTARY UNIONS

FEATURES AND ADVANTAGES

ROBUST

RELIABLE

COMBINED SYSTEMS

LOW TURNING TORQUE - HIGH PRESSURES

DIFFERENT MEDIUMS

LOW MAINTENANCE



ROTARY UNIONS

TECHNICAL INFORMATION

- Transmission of mediums such as oil, water, grease, air, gas, vacuum
- Standard and customized solutions
- Pressures up to 1,000 bar (14,500 psi)
- Rotating speeds up to 20,000 rpm
- Transfers various mediums types with up to 30 channels
- Seawater resistant with aluminum or stainless steel housing
- Compact design
- Available sealing technologies (optional):
 - **Non-contacting gap seal technology:** for high speeds, high flow rates and high pressures. Provides low friction and extremely long service life.
 - **Contact sealing system:** for high pressures, low speeds and leakage-free performance. Suitable for any medium
 - **Mechanical sealing system:** for single channel and high speeds; high pressures can be achieved
 - **Features:** hydrostatically relieved, robust design, suitable for dry running



POD PROPULSION COMBINATION UNITS

FEATURES AND ADVANTAGES

ROBUST

RELIABLE

COMPACT DESIGN

HIGH VIBRATION RESISTANCE

DURABLE

IACS CERTIFIED



POD PROPULSION COMBINATION UNITS

TECHNICAL INFORMATION

- Slip Rings: up to 25 MW pods
- Current rating: >6,000 amps per way
- Voltage rating: mV up to 20,000 volts AC/DC
- Hybrid technology: current, data and mediums in one compact and protected housing (up to IP54)
- Contact material: brass, copper, silver, rhodium or gold plated
- Condition monitoring: vibration, shock, arc flash, temperature, humidity
- Data transmission
- Encoder position referencing
- Vibration certified: 4g up to 100 Hz
- Forced or natural cooling possible



SPRING DRIVEN CABLE REELS

FEATURES AND ADVANTAGES

ROBUST

RELIABLE

MAINTENANCE FREE

COMPACT DESIGN

COMPATIBLE WITH ADDITIONAL SENSORS

CUSTOMIZABLE



SPRING DRIVEN CABLE REELS

TECHNICAL INFORMATION

- Current rating:
 - Power circuits: up to 50 A
 - Signals: mA & data transmission
- Voltage rating: up to 500 VAC / 750 VDC
- Temperature range: -40 °C to 80 °C
- Contact material: coated metal
- Protection class (slip ring): up to IP67/IP69K
- Data transfer:
 - up to 400 MBit/s with contacting slip rings
 - up to 2 GBit/s with contactless transmission



HOW TO LEARN MORE

WWW.MOOG.COM





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THANK YOU

LETS MAKE THE IMPOSSIBLE POSSIBLE
TOGETHER

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