

Slip Rings and Optical Rotary Joints

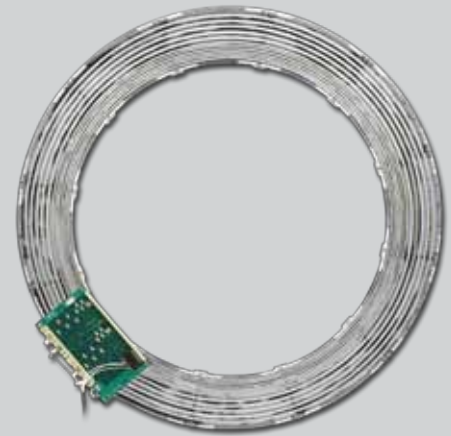
Slip Ring Assemblies

Description

Large bore slip rings represent the union of manufacturing processes and technologies that enable Moog to offer large, high volume slip rings with advanced features that are cost effective. The manufacturing processes allow the slip ring to be built in an assembly line fashion that significantly reduces delivery time and price.

Features

- Platter or drum configuration
- Diameters exceeding 70 inches (1.7 m)
- Rotational speeds to 300 rpm
- Power rings rated up to 1000 V
- Power rings rated up to 300 amp
- Data rings with signals from DC to 80 Mb/s
- Quiet mechanical system operation
- Low maintenance requirements
- Multiple brush tip options with minimal debris
- Capability of adding integral encoder, multiplexer and fiber optic rotary joint
- Multiplexing: multiple bidirectional signals to minimize ring count
- Encoder: capable of >15,000 counts



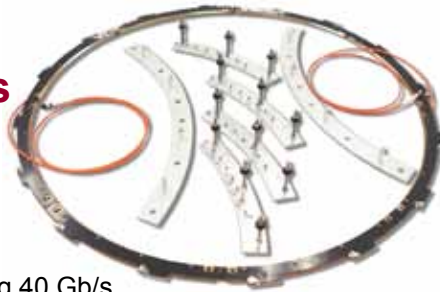
Typical Applications

- Medical CT scanners
- Luggage scanners
- Amusement rides
- Cranes
- Offshore mooring

Optical Rotary Joints

Description

Large bore optical rotary joints for high speed optical communications with aggregate data rates exceeding 40 Gb/s. This patented technology also has the capability to transfer multiple optical signals per optical channel, resulting in data transfer rates in excess of 5 Gb/s per optical channel.



Features

- Integrated directly into slip ring or can stand alone
- 10 Gb/s per channel with data compression
- Inherent EMI immunity
- Multiple electronics options (single channel, multi channel, FPGA)
- Significant system health diagnostics
- Bidirectional channel support
- Integrated data compression

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Specifications and information are subject to change without prior notice.
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