Large Diameter Slip Ring

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
- Quiet mechanical system operation
- Low maintenance requirements
- Multiple brush tip options with minimal debris
- Capability of adding integral encoder, multiplexer, fiber optic rotary joint and non-contacting data link
- 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
- Non-destructive test equipment
- Industrial 3D imaging equipment

Fiber Optic Rotary Joint (FORJ)

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 data signals per optical channel.

Features
- Integrated directly into slip ring or can stand alone
- Inherent EMI immunity
- Multiple electronics options (single channel, multi-channel, FPGA)
- Significant system health diagnostics
- Bidirectional channel support

Non-Contacting Data Link (NCDL)

Description
Large bore non-contacting data link for high speed data communications with aggregate data rates exceeding 5 Gb/s.

Features
- Integrate directly into slip ring or can stand alone
- Bidirectional channel support
- Requires less footprint than FORJ option
- Modules packaged within footprint of slip ring
Large Diameter Slip Rings and High Speed Data Links

Note: Slip ring designs within these general specifications may be for either military or commercial applications. Slip rings specifically designed for military applications may require licensing for export. Contact factory for export classification.

### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Type</th>
<th>ID*</th>
<th>OD*</th>
<th>High Power Qty</th>
<th>Mid Power Qty</th>
<th>Signal Qty</th>
<th>High Power Voltage</th>
<th>High Power Current (cont.)</th>
<th>Speed</th>
<th>Integrated Encoder</th>
<th>Integrated Data Link</th>
<th>Data Link Options</th>
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* OD, ID dimension does not include brush block, fiber optic hardware, or non-contacting data link mounting dimension

• All designs are RoHS compliant
• Design to customer specifications

**Note:**

- Dimensions in inches [millimeters]

CT7311 Dimensions
Large Diameter Slip Rings and High Speed Data Links

CT7138 Dimensions

Dimensions in inches [millimeters]

CT6970 Dimensions

Dimensions in millimeters [inches]

REVISED 08/17
Large Diameter Slip Rings and High Speed Data Links

CT6536 Dimensions

Dimensions in inches (millimeters)

CT6455 Dimensions

Dimensions in inches

REVISED 08/17