

# Large Diameter Slip Rings

## Large Slip Ring Assemblies

### Description

Large bore slip rings represent the union of manufacturing processes and technologies that enable us 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, significantly reducing delivery time and price.

### Features

- Drum or platter style
- Inside diameters up to 55 inches
- Optical single channels available with data rates up to 5 Gb / s
- Lengths to 18 inches
- Rotational speeds to 300 rpm
- Power rings rated to 1000 V with current to 300 amp
- Data rings from DC to 80 Mb / s
- Quieter mechanical system operation
- Low life time maintenance
- Multiple brush tip options with minimal debris

### Large Bore Slip Rings With Optics

These large bore slip rings feature optical channels for high speed optical communications, up to 5 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.

- ID to 55 inches, length to 18 inches
- Drum or platter style
- 80 Mb / s to 5 Gb / s per channel, aggregate data rate greater than 80 Gb / s
- Rotational speed dependent on diameter
- To 1000 V; 300 amps



### Typical Applications

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

# Large Diameter Slip Rings

Specifications*		Options
Size Range	ID to 55 inches; length to 18 inches	Apart from CT scanning solutions we also provide large diameter slip rings for industrial and military applications. These are custom designed against your specific requirements. An example is shown below. Contact us to have your specific needs quoted.
Rotational Speed	Dependent upon the diameter	
Signal Data Rate		
Electrical	DC to 80 Mb / s	
Optical	80 Mb / s to 5 Gb / s per optical channel	
Number of Circuits	Application and space dependent	
Power	1000 V, 300 amps	

\*Designed to customer specifications.

**Note:** Slip ring designs within these general specifications may be for either military or commercial applications. Military slip ring designs require specific licensing for export.

## Large Slip Ring Dimensions

