

Custom Slip Ring Solutions

For some special and cutting-edge motion control systems, a custom slip ring / rotary interface solution is essential. Many years of experiences and powerful R&D team enable AOOD to be a global leading rotary joints provider. AOOD are capable of providing below custom solutions:

- Up to 800 channels solutions for complex systems
- High power capability: voltage up to 10,000VAC, current up to 1000A per channel
- Mature communication and sensitive signals transmission technology, high speed data transfer rate up to 40 Gb/s
- Integrated solutions of fiber optic, electrical, RF and fluid / gas channels
- Large size solutions: carbon brush, large pancake and large through bore configurations optional
- For special environments: high temperature high pressure, high vibration or explosion-proof solutions available
- Can meet custom mounting requirement: special configurations and other devices mounting service available
- Multi-slip rings combination solutions: integrate up to 8 or more slip rings in a system to provide a complete rotary interface
- Can meet some special parameters requirement of military, marine or special industrial equipment

Military Multi - way Slip Ring



| | |
|---|-------------------|
| Ways: | 180 |
| High Voltage: | 500VAC |
| Current: | 30A/way |
| Combination of power, signal, data, coax and fiber optic | |
| Key dimensions: | OD 250mm, H 480mm |
| Protection: | IP65 |
| Application: | weather radar |

Military Electro - Optical Slip Ring



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|--|---------------|
| Ways: | 40 |
| High Voltage: | 220VAC |
| Current: | 10A / way |
| Combination of power, signal, data, coax, fiber optic and encoder | |
| Application: | radar antenna |

High Speed Slip Ring



| | |
|-----------------------|-------------|
| Ways: | 4 |
| High Voltage: | 380VAC |
| Current: | 10A / way |
| Working speed: | 4000rpm max |
| Application: | automation |

Gas / Fluid Integrated Slip Ring



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|---|------------|
| Ways: | 12 -40 |
| Pancake shape integrated with cylinder shape | |
| Hybrid transmission of gas / fluid, power and signal | |
| Application: | automation |

Military Multi - way Slip Ring



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|--|----------------------------|
| Ways: | 82 |
| High voltage: | 240VAC |
| High current: | 100A / way, 50A / way |
| Combination of power, signal, data, coax and fiber optic | |
| Application: | armored vehicles / turrets |

Military Multi - way Slip Ring



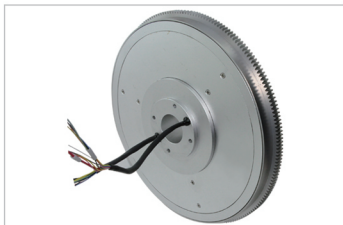
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|--|----------------------------|
| Ways: | 100 |
| High voltage: | 220VAC |
| Current: | 10A / way |
| Combination of power, signal, data, coax and fiber optic | |
| Application: | armored vehicles / turrets |

Military High Voltage Slip Ring



| | |
|--|-----------------|
| Ways: | 12 |
| High Voltage: | 6000VAC |
| Current: | 20A / way |
| Low temperature up to -55°C | |
| Altitude: | up to 20000m |
| Combination of power, signal and fiber optic | |
| Military standard with compact size | |
| Application: | aviation tester |

Military Pancake Slip Ring



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|---------------------------------------|----------------|
| Ways: | 14 |
| High Voltage: | 220VAC |
| Current: | 10A / way |
| Combination of power, signal and data | |
| Key dimensions: | 13mm thickness |
| Application: | radar antenna |

Gas / Fluid Integrated Slip Ring



| | |
|--|------------|
| Power ways: | 8 |
| High Voltage: | 380VAC |
| Current: | 25A / way |
| Gas / Fluid channels: | 5 |
| Max pressure: | 4Mpa |
| Max temperature: | 100 °C |
| Combination of electrical, gas and fluid | |
| Application: | automation |

Large Bore Slip Ring



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|-----------------|------------|
| Ways: | 20 |
| High Voltage: | 500VAC |
| Current: | 30A / way |
| Inner diameter: | 800mm |
| Application: | automation |

Large Size High Power Carbon Brush Assembly



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|------------------------|--------------------------|
| Ways: | 33 |
| High voltage: | 500VAC |
| Current: | 130A / way |
| Speed: | 50rpm |
| Key dimensions: | OD 496mm, H 1570mm |
| Application: | automobile manufacturing |

Large Size High Power Carbon Brush Assembly



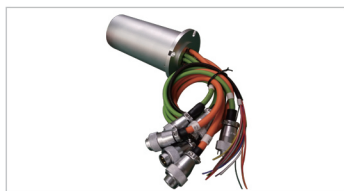
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|------------------------|------------------------------|
| Ways: | 20 |
| High Voltage: | 380VAC |
| Current: | 150A / way |
| Speed: | 300rpm |
| Key dimensions: | ID 168mm, OD 625mm, H 1060mm |
| Application: | Environment treatment |

CT Scanner Slip Ring



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|---|-----------------------|
| Ways: | 14 |
| High Voltage: | 400VAC |
| Current: | 120A / way |
| Pancake type | |
| Combination of power, signal, high speed data up to 4 Gb/s | |
| Inner diameter: | 1200mm |
| Application: | CT scanner / industry |

Servo-motor Slip Ring



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|--|-----------------------|
| Ways: | 20 - 100 |
| High Voltage: | 380VAC |
| Current: | 20A / way |
| Combination of power, data and servo-motor encoder signal | |
| Application: | industry servo- motor |

Wind Energy Slip Ring



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|--|--------------------------|
| Ways: | 12 - 40 |
| High Voltage: | 380VAC |
| Current: | 20A / way |
| Connector type with IP67 sealing | |
| Combination of power, signal and data | |
| Application: | winder energy / industry |