Aerospace / Military Slip Rings

Modern aerospace and military industry place increasing demands on slip ring technology because of equipment advancements and environmental conditions. From aerospace precision testing platforms to mobile missile launchers, UAV camera systems to Forward-Looking-Infra-Red systems, helicopters to armed command vehicles, slip rings have been always a critical role to provide reliable power and data / signal transfer interfaces between the stationary and rotating parts.

Anaerospace / military purpose slip ring assembly should be able to operate reliably in the most rugged environment, thus it is required to have high vibration and shock, wide operating temperature envelop and environmental sealing capabilities. Electrically, an aerospace / military purpose slip ring assembly could be challenged to meet high speed data, extremely low contact noise and resistance, EMI shielding capabilities in demanding space. AOOD meet all of these challenges effectivelyand economically.

For more information about how AOOD can meet your aerospace / military slip ring need, contact us now.

Features

- High power capability, support maximum 15000VAC high voltage and maximum 1000Amp high current design
- Support more than 500 channels through a single slip ring unit
- Through bore design, cylindrical shape, single pancake or stacked pancakes design available
- Combination of two or three multi-channel slip rings to meet height or diameter limitation available
- Support various data communication protocols
- High speed data transfer capabilities
- Additional isolation for sensitive circuits
- Combination of high frequency coax or FORJ channels available
- EMI shielding capabilities
- Meets military shock and vibration requirements
- Wide operating temperature envelope
- Reliability testing available
- High reliability and long life
- Full environmental sealing capabilities up to IP68
- Hydraulic rotary joint options
- Integration with encoders, connectors and other accessories

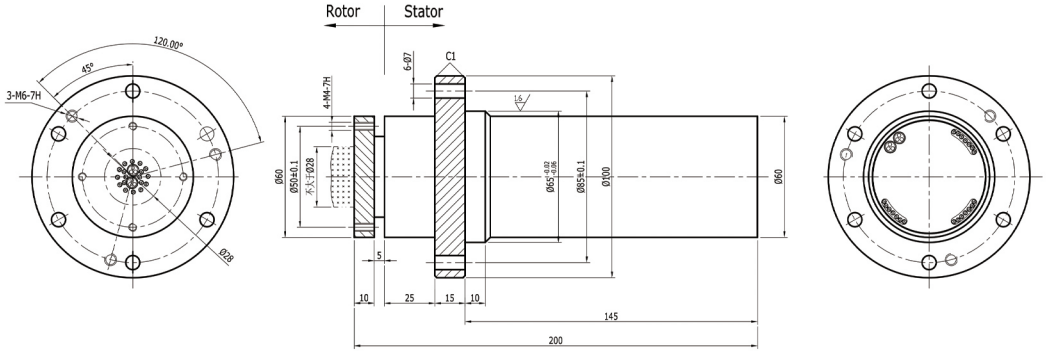
Typical Applications

- Stabilized machine gun platforms
- Armed command vehicles
- Military ships
- Mobile missile launchers
- Aerospace systems
- Precision testing platforms

Examples

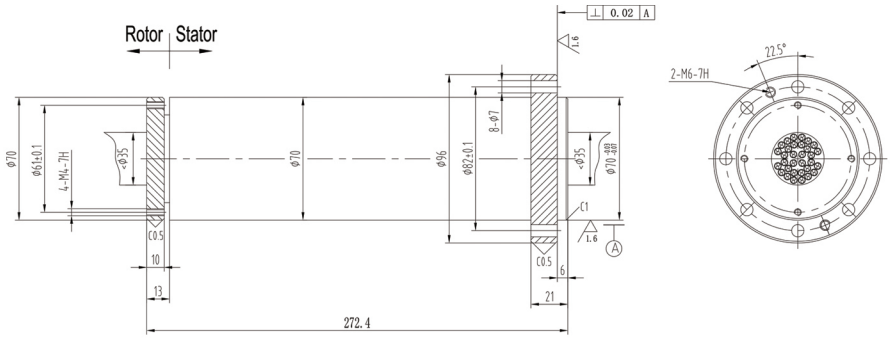
ADSR-JS-47

- Total 47 ways
- Dimensions: 60mm OD x 200mm L
- Power supply: 6 x 10A, 220VAC
- Signal type: analog signal, RS422/RS485, Gigabit Ethernet
- Electrical noise: < 10mΩ
- Service life: > 60,000,000 revolutions



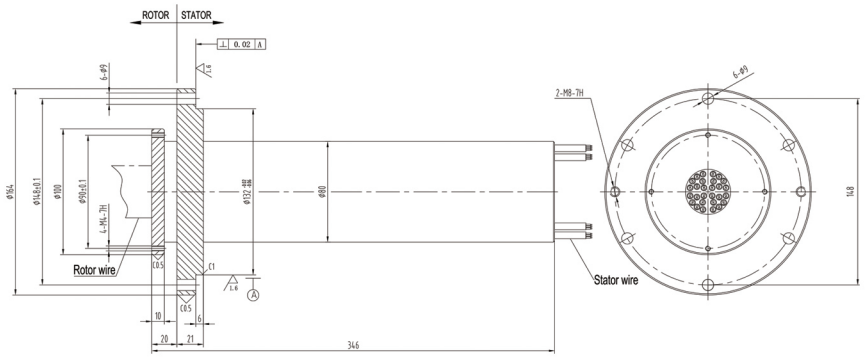
ADSR-JS-81

- Total 81 ways
- Power supply: 10A,35A
- Signal type: analog signal, RS422/RS485, 100M Ethernet, discrete signal
- Mechanic vibration: MIL-STD-810H
- Dimensions: 70mm OD x 272.4mm L
- Electrical noise: < 10mΩ



ADSR-JS-106

- Total 106 ways
- Rated voltage: 50VAC, 380VAC
- Signal type: 1553B, analog signal, RS422, 100M Ethernet, Gigabit Ethernet
- Mechanic vibration: MIL-STD-810H
- Dimensions: 80mm OD x 346mm L
- Electrical noise: < 10mΩ



ADSR-JS-H8A-MX4

- 8 power rings +1 channel fiber optic
- Rated voltage: 1500VAC
- Mechanic vibration: MIL-STD-810H
- Dimensions: 120mm OD x 350mm L
- Operating speed: 200rpm
- Service life: >80,000,000 revolutions