AQUA STAR DEEP OCEAN ROV MOTOR

Sun-Star Electric, Inc. manufactures Aqua Star motors for deep ocean and other subsea applications. The Aqua Star is ideally suited for new ROV applications and can be retrofit for existing submersible units. Sun-Star can customize Aqua Star motors for specific applications with voltages ranging from 460V to 6,600V. The Aqua Star can be designed and engineered for an accurate fit, and for deep ocean operation at depths greater than 10,000m.

MANUFACTURING & REPAIR OF DEEP OCEAN MOTORS SINCE 1977

- **ENGINEERING & DESIGN**
  Customized to fit your application. VFD Compatible

- **FACILITY CAPABILITIES & CAPACITY**
  All welding, machining, component fabrication, winding, assembly, electrical and run testing accomplished in house.

- **MEMBER ASSOCIATIONS**
  Hydraulics Institute
  Institute of Electrical & Electronic Engineers

APPLICATIONS

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<th>ROV – HPU &amp; TMS</th>
<th>Subsea Mining / Drilling / Trenching</th>
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HP RANGE

| 5-600 Standard |

VOLTAGE RANGE

| 460 / 2400 / 3000 / 4160 / 6600 |

SPEEDS

| 3600RPM / 1800RPM |
| (2 pole / 4 pole) |

ENVIRONMENT

| Offshore and deepsea up to 10,000 meters submergence |

MATERIALS OF CONSTRUCTION

| 316SS |
| NiAlBrz |
| Super Duplex Stainless Steel |

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Different configurations on request
Sun-Star Electric, Inc. has manufactured hundreds of Aqua Star ROV motors for new vehicles and applications and for refitting existing units. The Aqua Star is designed and engineered for a precision fit and the finest quality controls ensure longer service life, and historically reliable service. The Aqua Star motor can be engineered and designed to specific applications and requirements. Current standard designs range from 5 HP to 600 HP, 3600 and 1800 RPM.

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- **POWER LEADS**: The power leads are a continuous cable configuration utilizing a PBOF design from the junction box on the motor.

- **SHAFT**: The motor can be a single or double shaft configuration. Male/Female couplings.

- **WINDING**: The winding wire and other components are all oil resistant, class F or higher materials. Our voltage range is from 460 volt to 6600 volt. The winding wire exceeds inverter duty ratings and all windings are tested to meet applicable NEMA and IEEE standards.

- **SENSOR**: A sensor hub option is available for temperature monitoring and water ingress detection.

- **STATOR**: The standard stator casing material is corrosion resistant 316 stainless steel. This provides superior casing strength and allows a lamination design for increased horsepower per weight ratio.

- **SEALING SYSTEM**: The motor employs a rotating mechanical seal or double rubber seals for sealing at the shaft.

- **BEARINGS**: The anti-friction ball or roller bearings are sized to exceed normal requirements and insure a long service life for motor operations.