olympic arm
Subsea strength and precision.

NAUTICUSROBOTICS.COM
GREEN ROBOTICS FOR A BLUE ECONOMY
Specifications

**POWERFUL AND SMART**
Olympic Arm has the strength to lift heavy items along with the brains to work on its own. Right out of the factory, it supports automation. Through our cloud storefront, you’ll be able to download new modules and keep it updated well into the future.

**TOTALLY ELECTRIC**
Without a hydraulic part in sight, Olympic Arm is still one of the strongest manipulators on the market. And because it’s fully powered by electricity, it’s also one of the greenest.

**ENGINEERED FOR SAFETY**
Olympic Arm handles subsea lifting tasks that would otherwise be attempted by human divers — instantly improving job site safety. It also comes standard with our Azimov onboard safety system, ensuring safe operation near people and assets.

Raising the bar for subsea manipulators.

[Table of Specifications]

- **Control Device:** Haptic feedback control arm
  - **Control Type:** Position, Cartesian

- **Gripper Options:**
  - Parallel gripper
  - 3-finger intermeshing gripper
  - 4-finger intermeshing gripper

- **Power Supply**
  - **Power Input:**
    - Glenair SeaKing FCR-PX16
    - 110VAC single-phase (power limited to 1.5kW)
    - 240VAC three-phase
    - 480VAC three-phase
    - Peak power: 4kW with adjustable power limit
  - **Weight (In Air):** 57 kilograms (126 pounds)
  - **Weight (In Water):** 23 kilograms (50 pounds)

- **DC Voltage Requirements (If Bypassing Power Supply)**
  - **Low Voltage Input:** 24VDC at < 100 watts
  - **High Voltage Input:** 48-90VDC
  - **Peak Power Required (On High Voltage):** 1kW to 4kW

- **Oil Compensator**
  - **Compensator:** 2.5L compensator with linear transducer (sufficient for 2 arms)
  - **Weight (In Air):** 6.1 kilograms (13 pounds)
  - **Weight (In Water):** 2 kilograms (4 pounds)

- **Camera**
  - **SD Tool Camera with Integrated LEDs:** Imenco OE14-376 Light Ring Color Camera

- **Joint Range of Motion**
  - **Azimuth, Rotary:** 270 degrees
  - **Shoulder Pitch, Linear:** 135 degrees
  - **Elbow Pitch, Linear:** 135 degrees
  - **Elbow Roll, Rotary:** 328 degrees
  - **Wrist Yaw, Rotary:** 180 degrees
  - **Wrist Rotate, Rotary:** Infinite

**General Specifications**

- **Reach:** 1850 millimeters (73 inches)
- **Maximum Lift:** 250 kilograms (551 pounds)
- **Peak Grip Force:** 4092 Newtons
- **Peak Wrist Torque:** 170 Newton meters
- **Peak Wrist Speed:** 50 rotations per minute
- **Force Sensing:** Six-axis load cell on wrist
- **Degrees of Freedom:** 7
- **Materials:** Anodized aluminum, stainless steel
- **Maximum Depth:** 4000 meters
- **Weight (In Air):** 111 kilograms (245 pounds)
- **Weight (In Water):** 76 kilograms (168 pounds)

**Avionics Bottle**

- **Ethernet Connection:**
  - Glenair SeaKing FCR-LX14
  - 23 kilograms (51 pounds)
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