



olympic arm

Subsea strength and precision.

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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.

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
Weight (In Air):	23 kilograms (51 pounds)
Weight (In Water):	8 kilograms (18 pounds)

CONTROL

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

END EFFECTOR TOOLING

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