



UNDERWATER SOLUTIONS WORLDWIDE

Mako

Remotely Operated Vehicle (ROV)

The Phoenix owned Mako remotely operated vehicle, built by Seamor Marine, features a large open-frame design with versatile mounting options. With a payload of 14 kg (30.8 lbs), the Mako can accommodate heavy instrumentation, including multi-beam imaging sonars.

The ROV system can support a wide range of subsea missions, including:

- Inspection, Maintenance, and Repair of Offshore Infrastructure
- Mooring and Buoyancy Installation
- Oil Rig Movement and Drilling Operations
- Accident and Forensic Investigations
- Recovery Operations
- Route & As-built Surveys
- Photographic & Video Documentation
- Biological & Oceanographic Sampling
- Subsea Cable Installation & Maintenance
- Wind Farm Services
 - Platform & Cable Installation
 - Subsea Installation Monitoring
 - Seabed Survey
 - Foundation Repairs

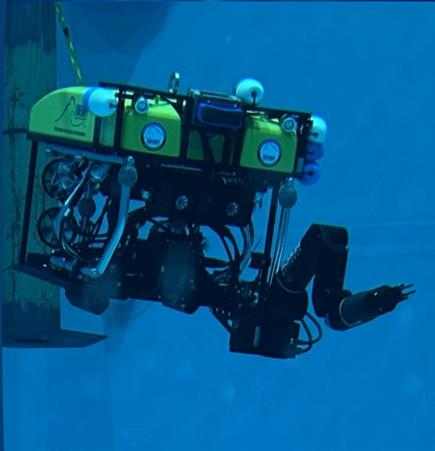
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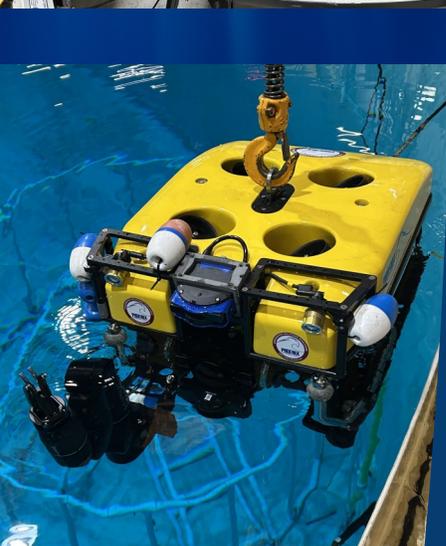
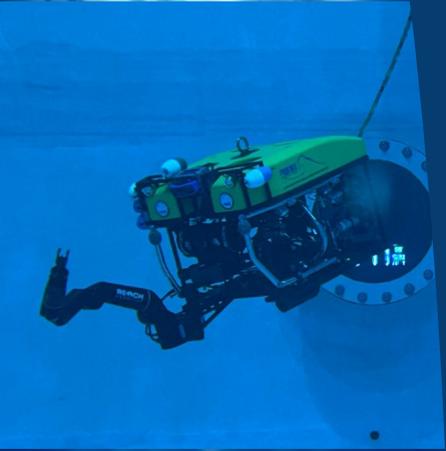
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Vehicle Description

Maximum Operating Depth	300 m (1,000 ft)
Weight in Air	72 kgs (160 lbs.)
Dimensions	Length: 840 mm (33.07 in) Width: 635 mm (25 in) Height: 674 mm (26.54 in)
Diagonal	890 mm (35 in)
Construction	Anodized aluminum, stainless steel, syntactic foam & marine-grade polymers
Payload	14 kg (30 lbs.) standard

Thrusters

Configuration	4 x Horizontal 4 x Vertical/Lateral Built-in short-circuit protection on each channel
Speed	2 knots

Forward Camera & Lights

Format	NTSC or Pal (full broadcast quality)
Focus	Manual & Automatic
Zoom	3x optical, up to 32x total zoom
Lights	2 x 1,500 lumens (3,000 lumens) Dimmable, high-intensity LED

Auxiliary Camera with Built-in LED Lighting

Type	Color or black & white, low light
Format	NTSC or PAL
Focus	Fixed
Tether	Available as twisted pair or fiber optic
Length	335 m (1,100 ft) standard
Diameter	10 mm/0.4 in (nominal)
Breaking Strength	700 kg f, Kevlar reinforced

Sensors

Pressure/Depth; Compass Heading; Pitch & Roll; Dedicated leak & temperature sensors in both the electronics & camera canisters

Control System

Pelican case mounted controller; Built-in 15" LCD monitor; Digital video recorder; Video overlay: depth, heading, auto-depth, auto-heading, pitch/roll, & tether turns counter

Phoenix International Holdings, Inc.

An employee owned company

