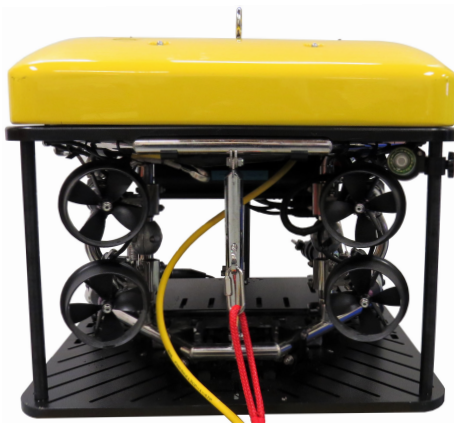




Mako ROV



The **Mako** is **SEAMOR Marine's** newest ROV. With a large open frame design and versatile mounting options, this vehicle can carry a variety of accessories and has the power capacity to run them all at once.

The **Mako's** payload (14 kg standard, upgradable to 22.5 kg) allows users to install heavy instrumentation, including multi-beam imaging sonars. Users can easily mount and position accessories without any special tools. The ample space in the accessory bay also improves flow-through, which ensures maximum thruster efficiency, making it easy to fly the **Mako** no matter the payload.

The **Mako** comes standard with eight (8) SEAMOR-designed thrusters; four (4) of these are vertical thrusters that provide a more stable flight. The second pair of vertical thrusters offers a fail-safe compared to the competition who only offers a single pair. We have arranged the **Mako's** four (4) horizontal thrusters to maximize forward thrust.

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- Heavy payload: 14 kg (30 lb) standard; upgradable to 22.5 kg (50 lb)
- Intuitive controller
- High-resolution colour, zoom camera
- Variable speed & directional ROV control
- Integrated controller with LCD monitor
- Digital Video Recorder (DVR)
- Manual and automatic camera focus control
- Depth-rated to 300 m (1,000 ft) or 600 m (2,000 ft) with deep-water model
- Eight (8) powerful thrusters
- Auto depth, auto heading functions
- Leak detection warning system



OPTIONS

- Upgraded payload (22.5 kg/50 lb)
- HD video
- Power reel attachment
- Sonar integration
- USBL integration
- SEAMOR auxiliary LED lights
- Dual-function gripper (open/close and jaw rotation)
- Interchangeable skid-mounted instrumentation or tooling platforms
- CT and UT probe integration
- Altimeter with auto altitude control

VEHICLE DIMENSIONS & ATTRIBUTES

Depth Rating	300 m (1,000 ft) or 600 m (2,000 ft) with deep water model
Size (L x W x H)	840 mm x 635 mm x 674 mm (33" x 25" x 26.5")
Diagonal	890 mm (35")
Weight in air	~ 72 kg (160 lb) (8-thruster vehicle trimmed for fresh water)
Construction	Anodized aluminum, stainless steel, syntactic foam and marine-grade polymers
Payload	14 kg (30 lb) standard; can be upgraded to 22.5 kg (50 lb)

THRUSTERS

Configuration	Four (4) horizontal and four (4) vertical/lateral thrusters
	Built-in short-circuit protection on each channel
Speed	2 knots (dependent on environment and configuration)

FORWARD CAMERA AND LIGHTS

Format	NTSC or PAL (full broadcast-quality)
Focus	Manual and Automatic
Zoom	3x optical, up to 32x total zoom
Tilt Range	+/- 90 degree rotation
Lights	Two (2) x 1,500 lumens (3,000 lumens) dimmable high-intensity LED
Lasers	Optional parallel green lasers on 150 mm (6") baseline for scale reference

AUXILIARY CAMERA WITH BUILT IN LED LIGHTING

Type	Colour or Black & White, low light
Format	NTSC or PAL
Focus	Fixed

TETHER - Available in twisted pair or fiber optic configurations

Length	335 m (1,100 ft) standard starting length; max. std. length 500 m (1,640 ft) for twisted pair; 625 m (2,050 ft) for fiber optic, on manual reel
Diameter	10 mm / 0.4" (nominal)
Breaking strength	700 kg f, Kevlar reinforced
Weight in water	Neutrally buoyant in fresh water

SENSORS

Pressure / Depth	
Compass heading	
Pitch and roll	
Dedicated leak and temperature sensors in both the electronics and camera canisters	

CONTROL SYSTEM

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