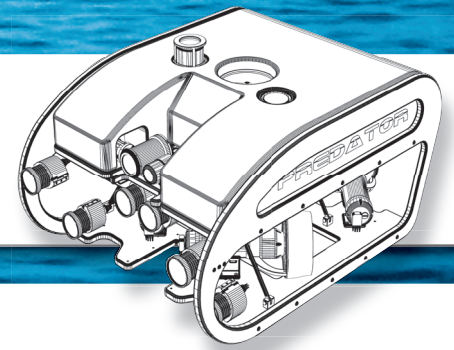


PREDATOR



Predator Inspection ROV

Built by marine engineers with practical, hands-on field experience, the Predator Inspection class ROV (Remotely Operated Vehicle) has been designed to function in all market sectors around the world including Oil & Gas, Military, Fisheries, Inshore Survey, Scientific Research, Telecommunications and Energy. Compact and portable, the Predator is easy to deploy, easy to use, and easy to maintain. The Predator is manufactured, brought to market, and supported by the ROV engineers and operators at Global Marine Systems, a worldwide provider of offshore marine engineering services.

The Predator, a 300m rated inspection class ROV has been developed to meet the ever demanding markets for rugged and reliable underwater viewing systems. The ROV uses the latest high reliability technology designs for maximum operating efficiency in marine operations. Reliability has always been foremost in the development of the ROV package, and with the inclusion of a network control system and a comprehensive diagnostics system, the functional design will assure continuous performance in all operations.

Added to this efficient control system, all vehicle functions are monitored by high capability diagnostic electronics - diagnostics generally found in more costly work-class ROV's, which will identify fault sectors that may be problematic, without loss of control to the ROV.

The thrusters are assembled using high efficiency brushless DC motors with a direct drive to the prop blades. The thrusters are fitted with high quality seal cartridge c/w wiper seal protection for any sand intrantment. The seal cartridge can easily be replacement within minutes providing a quick & easy method of maintenance.

In order to reduce drag and improve the ROV performance, most of the electronics have been designed to fit under the buoyancy module on the vehicle frame. The power system has been designed to accommodate a reduced size of the tether to around 11mm (heavy), 14mm (Neutrally buoyant) and 16mm (neutrally buoyant plus extra conductors) diameter which significantly increase the vehicles manoeuvrability and versatility.

The hand controller for the system is designed to be portable and houses the control joysticks, dials and membrane pad buttons, all of which are sealed from water ingress. The hand controller functions can be customised by utilisation of the surface control system setup interface.

Training & Operation Support

The Predator is designed to be operated and maintained without a great deal of specialized experience. Global Marine Systems offers a comprehensive Predator training package to include both technical and hands-on operations training in an open water environment.

This can be completed at the manufacturing and ROV Training facility at Portland UK or at the clients own location worldwide.

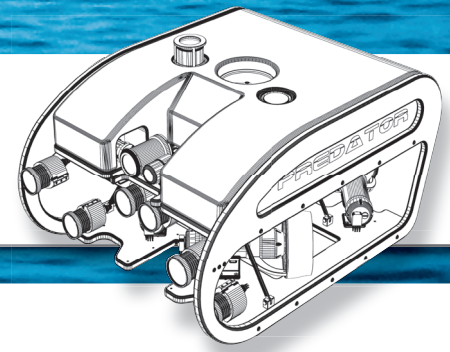


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PREDATOR



The full ROV system comprises of:

- Surface control unit (SCU)
- Surface power unit (SPU)
- Surface hand controller
- Umbilical tether cable
- ROV vehicle

Options include:

- Sonar
- Various additional cameras
- Additional lighting
- Laser scaling
- Altimeter
- Manipulators and many more...

ROV System Specification

- Depth rating 300m (Standard), 1000m (Optional)
- Length 900mm
- Height 450mm
- Mass in air Approx. 65kg
- Tether Approx. 14mm diameter multi-core up to 450m length diameter
- Turning rate Approx. 120 degrees/sec
- Horizontal thrusters layout 4 Thrusters in vector formation
- Vertical thrusters layout 1 Vertical thruster
- Forward speed > 3.0 knots (0 knots current)
- Lighting Up to 6 LED lights (1600 Lumens per light)
- Camera Two (2) cameras – simultaneous operation - Up to four (4) camera selection
Colour zoom camera selection - Fixed focus colour camera (optional)
Low light black/white (optional) - HD colour zoom (optional)
- Width 620mm
- Payload Approx. 10kg
- ROV power requirements 3kw @ 400VDC

Surface Controller

PC Based control system
Integrated monitor
Surface power unit c/w GFI and LIM
Software Interface c/w
Full system diagnostics page
System configuration page
Main ROV interface page
Secondary ROV interface page

Hand Controller

Main thrusters 3 Axis ROV control joystick c/w top switch
Vertical thrusters Control dial c/w top switch
Interface controls Camera selection function
3 x ROV light intensity control dials
power function
Auto heading and depth functions
2 x Aux functions
2 x Accessory functions

Power Requirements 110-240 VAC Input

About Global Marine Systems Ltd:

Global Marine Systems, an independent provider of submarine cable installation, maintenance and related engineering services, has been in business for well over 160 years. Operating the world's largest fleet of cable ships and subsea vehicles, it is a market leader in marine cable installation and maintenance for telecommunications; subsea cable maintenance, installation and related services as well as offshore power; cable installation and maintenance for renewable energy and subsea inter-connects; oil and gas life of field services. © Copyright