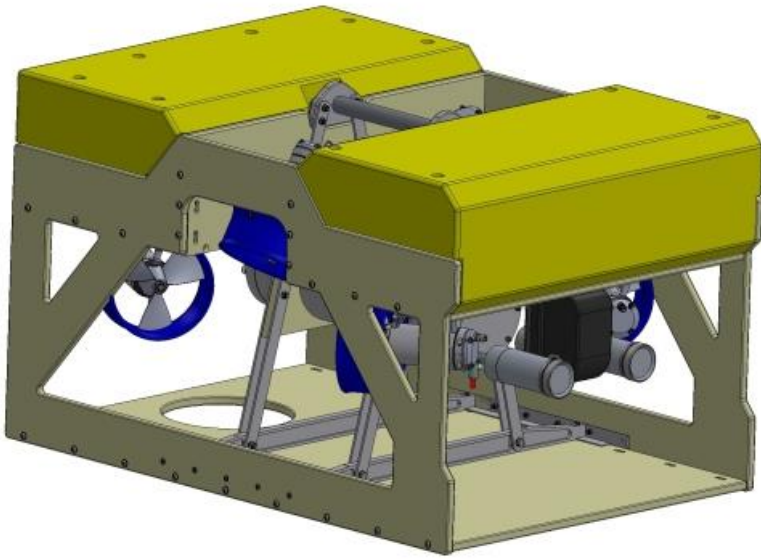


# Macduff Robotics

Intelligent Subsea Equipment



## Description:

A powerful electric ROV built for aggressive offshore applications. Capable of operating at depths of up to 1000m in free flying setup, and 3000m with a TMS.

## Drogon electric ROV

### MAIN FEATURES

- Powerful DC thrusters
- Lightweight frame
- High payload with expandability
- High electrical power availability for sensors and equipment

### Further Information

Advanced spares kits also available

### Equipment supplied

Standard vehicle supply includes

- Vehicle assembly c/w load tested frame, 6 x ELT220 thrusters, tether junction box, thruster and JB compensators, and camera pan and tilt unit.
- Topside power supply depending on configuration and system setup.
- Topside control PC, c/w vehicle control software.
- Topside control unit.
- Rack mounted power control and monitoring module.

# Drogon Specifications

## Dimensions

Length (mm).....	1400
Width (mm).....	980
Height (mm).....	850
Typical Depth Rating (m).....	3000
Weight in Air (Kg).....	600
Payload Capacity (Kg).....	120
Power.....	15kW
Thrusters Horizontal (mmØ).....	4 x ELT220
Thrusters Vertical (mmØ).....	2 x ELT280
Bollard Pull (Nominal)	
Forward (Kgf).....	160
Lateral (Kgf).....	160
Vertical (Kgf).....	140
Surface Speed (nominal).....	4.0 Knots

## Standard System Equipment

- Fiber optic telemetry
- Twin Camera Pan & Tilt Unit
- 4off LED Light units
- Depth Transducer
- Recovery Lift Point

## Optional Equipment

- Cameras – various third party options.
- HD cameras – various third party options.
- Sonar unit - various third party options.
- Altimeter
- CP Probe
- 5 Function Electric Manipulator
- Hydraulic power unit
- Cleaning Brush
- Acoustic Transponder
- Recovery Beacon and Flasher
- Recovery Bullet & Lock Latch
- Auto-positioning features (station keeping, waypoint following, return to location) when suitable DVL and gyrocompass are fitted.

## Control System

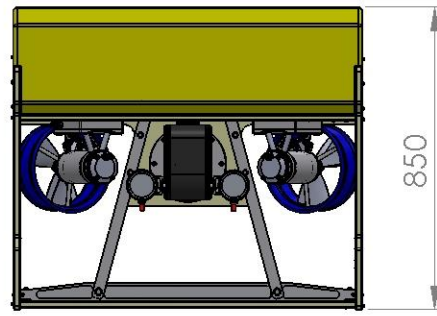
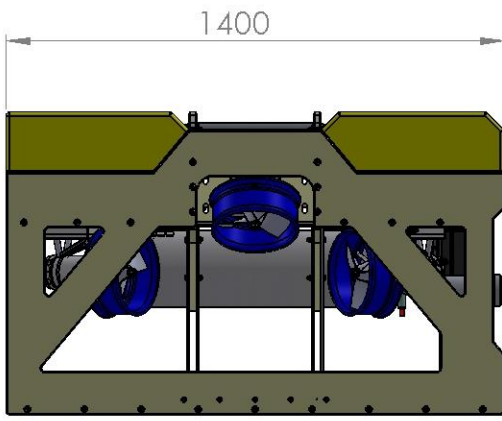
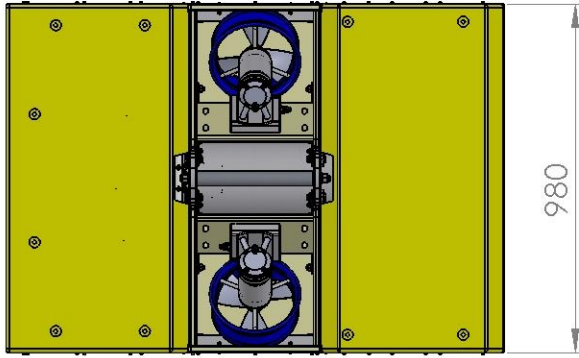
- Windows PC based control system with power management, diagnostics and auto-position capability
- Graphical status and fault locator
- Real-time Optical Multiplexer, video condition and fault monitoring
- User preset positioning of Camera pan & tilt unit

## Telemetry

- 4 x Real-time PAL & NTSC video channels
- Spare digital and analogue I/O's dependent on requirements and equipment fitted.
- Ethernet/RS232 option

## Additional System options

- Electric or hydraulic storage Winch
- LARS
- Integrated Storage cabin/LARS
- Control Cabin
- Certified/Zone rated Winch/Cabin
- Integrated Pilot Chair
- Graphics/Vision/Sonar monitors
- Video Overlay/Switching/Recording
- Workskids (Tooling, Survey, etc)



Information contained in this data sheet is up-to-date and correct as at the date of issue. All product designs, specifications and data are subject to change without notice to improve reliability, function, design or otherwise. No express or implied warranties are given.