

Mohican™

Harness the Power and Exceed All Expectations

Mohican was specifically developed to cope with the fast moving and unpredictable turbid waters of the southern North Sea. The 'dynamic vector' feature enables the operator to adjust thruster angles on the fly for agile manoeuvring and the 3000v 400Hz power system is particularly suited to long tether excursions and deep liveboating operations. The subCAN control system provides advanced diagnostics, precise vehicle control and reduced reactive maintenance. Thus, the benefit of increased dive time, reduced vessel standby and operating costs. The system can be supplied as free flying or with:

- Tether Management System
- Unique 'Dynamic Vectoring' System
- High thrust in all axes
- Up to 50Kg of payload (shallow buoyancy set)
- SubCAN control system, management & advanced diagnostics
- IMR, navigation, survey and threat detection skids
- Manipulator and Cutting Options
- Electric jetting option
- Multiple Video Telemetry Channels as standard
- Deep water cage TMS option
- Deep Water Live Boat or Long Tunnel Excursion
- Full Dynamic Positioning / Inertial Navigation options
- GigaByte Ethernet / CWDM options
- 'Statorshield' flood protected thrusters



Operational Skids

- Forum provides a range of operational skids* for each model
- of Observation ROV, including the following options:
 - Pipeline Inspection (boom arms / TS440 etc.)
 - Seabed Survey – multibeam / gradiometer / profiling sonars etc.
 - IRM - Manipulator / Jetting / Dredging / Cutting / Cleaning
 - Flooded Member Detection / AX,VX ring changeout
 - Torque tool & verification unit
 - Fluid Injection for BOP testing etc.
 - Submarine rescue pod delivery
 - Sample collection & storage / scientific instrumentation
 - Bespoke skids to customer requirements

*Not all skids can be fitted to all model of vehicles

Specifications

Mohican is the ideal platform for all inspection tasks, NDT, light intervention, pipeline/cable/seabed survey, diver assist/ safety, harbour & port security, scientific survey & data collection, renewable energy projects, civil engineering, long tunnel excursion and for inland waterways.

Mohican System Specification

Length	1150 mm
Width	770 mm
Height	800 mm
Standard buoyancy depth	2000m
Deep Water Buoyancy	3000m
Shallow Water Buoyancy	300m
Weight in Air (Kg)	340Kg
Standard Payload	35Kg
Deep Payload	30Kg
Shallow Payload	50Kg
Power Required	440vAC 3ph 50/60Hz 15Kva
Thrusters Horizontal 1	80 mmØ
Thrusters Vertical	180 mmØ
Bollard Pull (Nominal)	
Forward	110 Kgf
Reverse	110 Kgf
Lateral	110 Kgf
Vertical	75 Kgf
Surface Speed (Nominal)	3.5 Kt = 1.75 m/s
Turning rate	180° per second

Standard System Equipment

- 1 atmosphere electronics pod / subCAN control, protection & diagnostics system
- Camera Tilt Unit
- Low mass 15 Kw/3000v / 400Hz transformer
- 2000m / 35Kg standard payload buoyancy
- Adjustable 'dynamically vectored' thrusters
- Narrow gauge 16.5mm tether
- OPERATIONAL EQUIPMENT (OPTIONAL)
- Combined 6 station valve pack / HPU for auxiliary hydraulics
- Torque tool / manipulator / cutter / FMD skid options
- Survey pod / navigation skid options
- Pipeline inspection / cable tracking skids available
- HD / Stereo / PATZ / Digital / Acoustic camera interfaces
- Type 1 or 2 cage Tether Management System
- Live boat winch / integral cabin & LARS options



Control System & Features

- Hands Free Navigation & Station Keeping
- Power Management & Protection
- Live Monitoring & Diagnostics

Telemetry

- Single pass to four pass fiber optic upgrade available
- Ethernet / CWDM options for expansion of sensor suite
- 4 x video channels , 2 x RS 485 channels, 4 x RS 232 channels
- (1 dedicated to subCAN)

Additional System Options

- 300m Buoyancy set (50 Kg payload)
- 3000m Buoyancy set (30Kg payload)
- Digital Video and Survey Database options

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The specification details are illustrative and are for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.

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