



ROV TOMAHAWK

GENERAL INFO

Tomahawk is a compact sub-Atlantic observation ROV designed for stable, integrated missions. It features a subCAN control and diagnostics system supporting survey and data collection tasks.

- Designed for maximum payload, ease of access and maintenance
- High power to weight ratio
- 240 Kg Thrust / 3.5 Kt (nominal)
- 175 Kg Payload with generous open deck space & access
- subCAN control for power management & advanced diagnostics
- Easy access transformer / capacitor / fuse / thruster pod
- Oil filled survey/comms JB for rapid expansion of options
- Dual Port GigaByte Ethernet, CWDM, HD solutions
- Standard system comes with CWDM for increased telemetry capacity
- Survey, navigation and threat detection skids
- 12 or 16 Station General Function Valve Pack
- Twin 5 Function Heavy Duty Manipulator option
- Cutting / Jetting / intervention and tooling skid options
- Deepwater cage or Deepwater cage TMS option with rear or top entry tether
- Statorshield flood protected thrusters

ROV Tomahawk

Length

1860 mm

Width

1210 mm

Height

1200 mm

ROV Depth Rating

3000 m

Standard Buoyancy Depth

2000 m

Optional Buoyancy Depth

3000 m

Weight in Air

1000 kg

Standard Payload

160 kg

Optional Payload

175 kg

Power

35 kW

Horizontal Thrust

250 mm Ø

Vertical Thrust

250 mm Ø

Forward thrust

240 kgf

Lateral thrust

240 kgf

Vertical thrust

160 kgf

Surface speed

3.5Kt / 1.75 m/s

Standard System Equipment

- Electronics Pod c/w SubCAN Control, Protection & Diagnostic System
- Communication Junction Box c/w 907Plus Multiplexer & Single Fibre Telemetry CWDM Module
- Low Mass 35kW / 3000V / 400Hz Transformer
- Single Atmosphere Capacitor, HV Fuse & Thruster Power Pod
- Pan & Tilt Unit
- 2000m Rated 160 Kg Payload Buoyancy
- Open Lower Deck c/w Removable Grilles for Mounting User Equipment
- Aluminium Frame Supporting Internal / External User Equipment & Live Boat Launch & Recovery

Operational Equipment

- 2000m rated 175Kgs Payload Buoyancy
- Choice of industry standard:
 - Manipulators & Cutters
 - Cameras & Lights
 - Live Download Digital Stills
 - Obstacle Avoidance Sonars
 - Motion & Navigation Reference Sensors
 - Geophysical and Bathymetric Survey Sensors
 - Non Destructive Test Sensors
 - Cleaning Jets & Brushes
 - Pipe and Cable Tracking and inspection systems
 - Drill Support & Well Intervention Tooling
 - Threat Detection. Imaging and Intervention Systems

Control System and Features

- Hands Free Navigation / Station Keeping
- Hand Control Unit and Graphical User Interface
- Power Management and Protection
- System Monitoring and Diagnostics

Telemetry

- Single Fibre integration of all standard and optional data
- 4 x video channels , 2 x RS 485 channels, 4 x RS 232 channels (1 dedicated to subCAN)

Additional System Options

- 3000m Rated Buoyancy with various high payload options
- 3000m rated cage Tether Management System
- Digital Video & Survey Data Recording System

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

