



ATOM is an ultra-compact hydraulic work class ROV system, comparable in size to an electric WROV system. The ROV is suitable for drill support, survey and light construction duties and can be mobilised on vessels and rigs with limited deck space. Designed with ease of operation and maintenance in mind, the Atom boasts the latest DVECSII distributed control, graphical displays and pilot aids coupled with proven powerful Curvetech™ components. Atom is supplied as a complete package with SMD's ultra-compact TMS, A-frame, winch, 20' control container and 20' workshop container.

This is what you get:

- 3000m depth rating
- SMD Compact Tophat TMS with up to 400m of 27mm tether
- Four Horizontal vectored thrusters and Two Vertical thrusters
- 150 Kg Payload and 1500Kg through frame lift with diverse skid options
- Ultra Compact design to reduce deck space requirements

#### **MAIN FEATURES**

- 3000m rated
- Suitable for zone 2 / class 1 div II operation
- Ultra Compact Work Class ROV System
- Ability to integrate with the latest survey instruments
- Ability to integrate with variety of tooling packages
- Open frame design with areas for sensors and tooling installation
- Designed for up to seastate 6 operation
- 1500kg through frame lift
- 150kg payload with manipulators fitted

## ROV SPECIFICATION

Dimensions (l x w x h)	2500 x 1500 x 1500 mm
Weight in air	2000kg
Bollard pull	>500kg fwd, >500kg lateral, >340kg vertical
Surface speed	3.5kn fwd, 2.8kn lateral, 2.2kn vertical
Tooling packages	up to 1500Kg underslung up to 500kg rear mounted 4 attachment points for both options
Hydraulic power	75kW, 100HP One 12 station HCU One 6 station TCU One pilot controlled high flow output (60lpm) Optional torque tool controller
Propulsion	Four Curveteck HTE300 horizontal thrusters Two Curveteck HTE300 vertical thrusters
Manipulators	One Schilling 5F Rigmaster One Schilling 7F Orion 7P
Pan and Tilt	Kongsberg OE10-102
Auto functions	Heading, depth, altitude, roll
Video	Six SD video channels Three channels with Zoom and Focus Bowtech Surveyor zoom camera Bowtech Explorer mono camera Bowtech LLC600 mono camera
Lighting	Six Bowtech 110V LED lamps fitted as standard Optional Two HID lamps
Other Features	CDL TOGS Nav Fiber Optic Gyro Trittech

## TMS SPECIFICATION

Dimensions (d x h)	1775 x 2265 mm
Weight in air	1950kg (inc 400m of 27mm tether)
Weight in seawater	1540kg (inc 400m of 27mm tether)
Line speed / pull	0 – 60m/min proportional @ >300kgf
Lighting	Two Bowtech 110V LED lamps fitted Video Two Bowtech LLC600 mono cameras

## A-FRAME SPECIFICATION

Hydraulically powered 'A'-frame with umbilical sheave, damped snubber and rotating frame. Hydraulically operated from deck mounted control stand.

Dimensions (l x w x h)	6058 x 2500 x 8305(max deployed) mm
Weight	15000 Kg
SWL	6000 Kg

## UMBILICAL WINCH

Dimensions (l x w x h)	3400 x 2900 x 2550 mm
Weight	17250 Kg (inc. umbilical)
Max line pull	6000 Kg top wrap
Min line speed	30m/min
Umbilical	Up to 3500m of 27.2mm dia, double steel armoured
HPU	75kW HPU integrated into winch assembly
Incoming power supply	380 / 480 VAC 3Ø 60Hz Approx 100A@ 440V

## CONTROL VAN

Dimensions (l x w x h)	6100 x 2500 x 2700 mm
Weight	12000 Kg Gross Incoming
Power Supply	380 / 480 VAC 3Ø 60Hz Approx 200A@ 440V 50m power cable
Standard Features	Air conditioning Integrated PDU with interlocks and DVECSII Integrated control console Eight 19" wall mounted monitors Video overlay unit Kramer 16 x 16 matrix switcher Two Digital Edge DVR Recorders Tritech Seagnet SCU Canford Communication system
GFD	

## WORKSHOP

Dimensions (l x w x h)	6100 x 2500 x 2700 mm
Weight	11500 Kg
Gross Incoming power supply	110V, 60Hz, 32A 50m power cable
Standard Features	Air Conditioning Caged Shelving Two Workbenches Four 110V power sockets Comprehensive ROV system spares package

*Specifications subject to change without notice. Last revised September 2017*