

WORK CLASS ROV

ATOM 01

(year built 2012)

DEVELOPED FOR

- ◆ Drilling Support & Well Intervention
- ◆ Pipeline and Jacket Inspection
- ◆ Inspection, Repair and Maintenance
- ◆ Construction Works
- ◆ Submarine / Maritime Rescue

ROV INTRODUCTION

ATOM 01 (SMD's 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, integrated LARS, 20' control container, and 20' workshop container.

MAIN FEATURES

- ◆ 3000m rated
- ◆ Suitable for zone 2 / class 1 div II operation
- ◆ Ultra compact ROV System
- ◆ Ability to integrate with the latest survey instrument
- ◆ Ability to integrate with variety of tooling packages
- ◆ Open frame design with areas for sensors and tooling installation
- ◆ Designed for seastate 6 operation
- ◆ 1500kg through frame lift
- ◆ 150kg payload with manipulators fitted
- ◆ Optional Auto DP function

OTHERS STANDARD FEATURES

- ◆ CDL TOGS Nav Gyro with DVL option
- ◆ Trittech Super Seaking OAS
- ◆ Trittech PA500 altimeter
- ◆ Digiquartz depth sensor
- ◆ Novatech Xenon flasher
- ◆ Hydraulic charge cart for testing
- ◆ Spare fibre pass



REMOTELY OPERATED VEHICLE

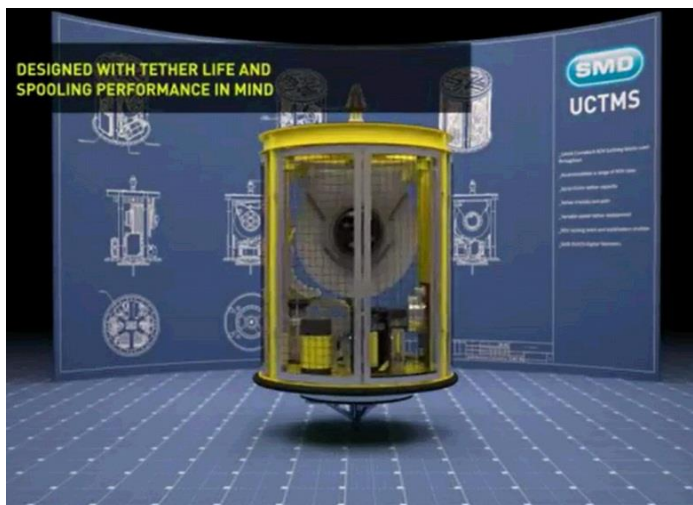
Class	Workclass	
Depth Rating	3000 meters sea water	
Dimensions	2500 mm (L) x 1500 mm (W) x 1500 mm (H)	
Weight In Air	2000 kg	
Bollard Pull	>500 kgf	Fwd/Aft
	>500 kgf	Lateral
	>340 kgf	Vertical
Surface Speed	3.5kn	Fwd/Aft
	2.8kn	Lateral
	2.2kn	Vertical
Tooling Package	up to 1500Kg underslung up to 500kg rear mounted 4 attachment points for both option:	
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 Curvetech HTE300 horizontal thrusters Two Curvetech 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 video channels Bowtech Surveyor zoom camera Bowtech Explorer mono camera Bowtech LLC600 mono camera HDTV upgrade available	
Lighting	Six Bowtech 110V LED lamps fitted	

CONTROL VAN SPECIFICATION

Type	20ft Container
Dimensions	6000 mm (L) x 2440 mm (W) x 2200 mm (H)
Weight	12000 kg Gross
Incoming Power	380 / 480 VAC 3Ø 60Hz Approx 200A@ 440V 50m power cable
Standard Features	Air conditioning Integrated PDU with interlocks and GFD DVECSII Integrated control console Eight 19" wall mounted monitors Video overlay unit Kramer 16 x 16 matrix switcher Two Digital Edge DVR Recorders Tritech Seanet SCU Canford Communication system

TMS SPECIFICATION

Dimensions	2500 (L) x 2500 (W) x 2800 (H)
Weight in air	2500 kg (inc 400m of 27mm tether)
Weight in seawater	2100 kg (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



OFFICE

Address	02nd floor, 11 Nguyen Cong Tru Street District 1, Ho Chi Minh City, Vietnam.
Tel	+84 28 3914 3982
Fax	+84 28 3821 6446

WORKSHOP VAN SPECIFICATION

Type	20ft Container
Dimensions	6100 mm (L) x 2440 mm (W) x 2500 mm (H)
Weight	11500 kg
Incoming Power	110V, 60Hz, 32A 50m power cable
Standard Features	Caged Shelving Two Workbenches Four 110V power sockets Comprehensive ROV system spares package

A-FRAME SPECIFICATION

Hydraulically powered 'A'-frame with umbilical sheave, damped snubber and rotating frame.	
Hydraulically operated from deck mounted control stand	
Dimensions	6060 (L) x 2500 (W) x 390 (H) mm
Weight	12400 Kg
SWL	6000 Kg

UMBILICAL WINCH SPECIFICATION

Dimensions	3400 (L) x 2900 (W) x 2680 (H) mm
Weight	19100 Kg (inc umbilical)
Max line pull	5500 Kg top wrap
Min line speed	30m/min
Umbilical	3300m of 25.3mm dia, double steel armoured
HPU	75kW HPU integrated into winch
Incoming power	379 / 480 VAC 3Ø 60Hz
Incoming power	Approx 100A@ 440V



ROV WORKSHOP

Address	No. 69, 30/4 Street, Thang Nhat Ward Vung Tau City, Ba Ria Vung Tau Province, VN
Tel	+84 2543 812 968
Fax	+84 2543 812 121



ROV ATOM 01 FOOT PRINT

CONTROL VAN
L x W x H (mm)
6000 x 2440 x 2200
WEIGHT 12.000 KG

STORE VAN
L x W x H (mm)
6100 x 2440 x 2500
WEIGHT 11.500 KG

UMBILICAL WINCH
L x W x H (mm)
3400 x 2900 x 2680
WEIGHT 19.100 KG

A-FRAME
L x W x H (mm)
6060 x 2500 x 3900
WEIGHT 12.400 KG

ROV & TMS
L x W x H (mm)
2500 x 1500 x 4300
WEIGHT 4.500 KG

WINCH CONTROL
L x W x H (mm)
800 x 800 x 1300
WEIGHT 260 KG

PRIMARY GENERATOR
L x W x H (mm)
4800 x 2200 x 2850
WEIGHT 9.000 KG

DECK CART
L x W x H (mm)
1520 x 1110 x 17200
WEIGHT 1.200 KG

SECONDARY GENERATOR
L x W x H (mm)
4800 x 2200 x 2850
WEIGHT 9.000 KG