



OFFSHORE TECHNOLOGY SOLUTIONS LTD.

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ROV - SMD-QUANTUM

OTSL ROVFLEX Division SMD-Quantum

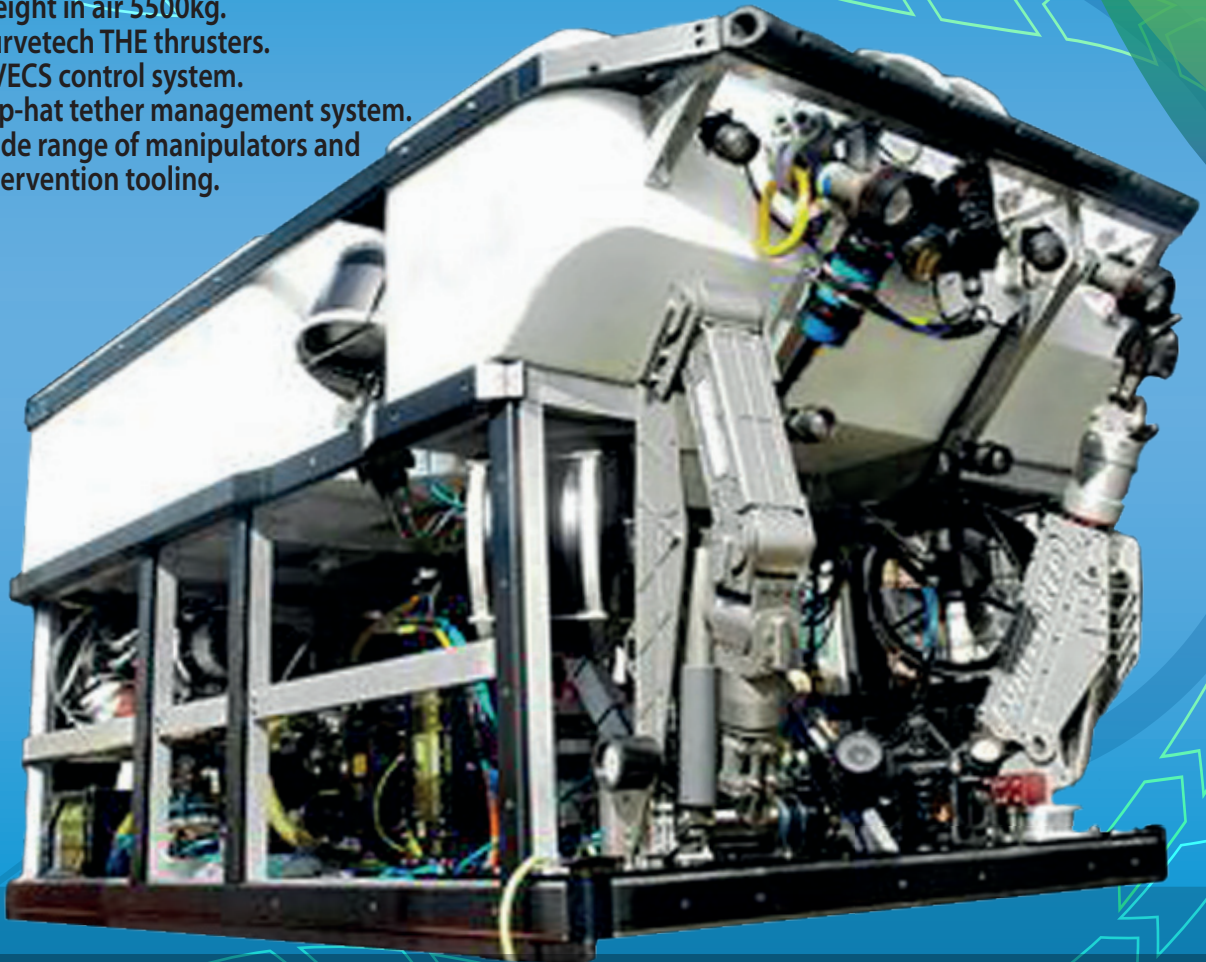
is a large work class ROV suitable for heavy construction duties.

Utilising the latest multi-platform Curvetech™ components, the vehicle offers classleading in-current performance and extensive free tool and instrument space.

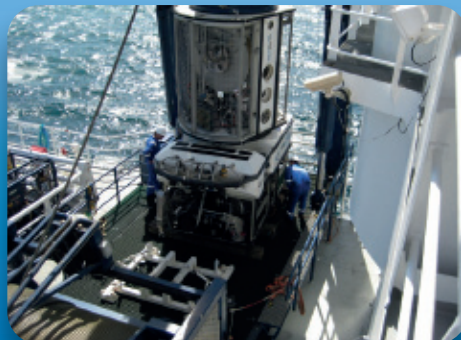
Designed to cope with power intensive deepwater tasks, the Quantum is the ultimate subsea construction and survey tool.

FEATURES

- 3000m depth rating.
- 3.0 tonne through frame lift.
- 150,200 hydraulic power unit.
- Weight in air 5500kg.
- Curvetech THE thrusters.
- DVECS control system.
- Top-hat tether management system.
- Wide range of manipulators and intervention tooling.



HEAVY DUTY CONSTRUCTION CLASS ROV





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SPECIFICATIONS
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OTSL ROV - SMD-QUANTUM

VEHICLE MODEL - SMD-Quantum

Vehicle Features:

- 3000m depth rating.
- 3.0 tonne through frame lift.
- 150,200 hydraulic power unit.
- Weight in air 5500kg.
- Curvetech THE thrusters.
- DVECS control system.
- Top-hat tether management system.
- Wide range of manipulators & intervention tooling.

Dimensions & Weights

Length	3580mm
Width	2000mm
Height	2000mm
Weight in air (std)	5350kg
Through Frame Lift capacity.....	3000kg
Payload	350kg
Depth rating	3000msw

Propulsion System

The vehicle is propelled by 7 Curvetech THE thrusters with an optional eighth.

Shaft Power - Option of.....150hp/112kW
200hp/150kW
230hp/172kW

Forward	> 800kgf
Vertical	> 700kgf
Lateral	> 800kgf

Thruster Configuration

*Four Horizontal Vectored *Four Vertical

Manipulators

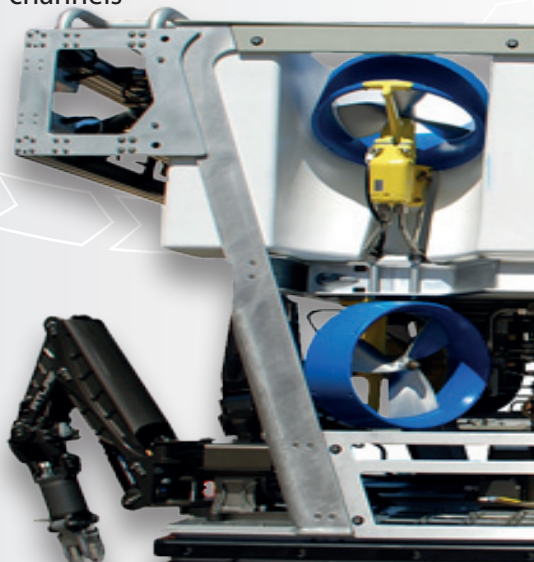
Right-hand	
Standard	Schilling CONAN 7P
Optional	Schilling TITAN 4
Left-hand	
StandardSchilling RigMaster 5F
Grabber	
Optional	Schilling CONAN 7R
.....	Schilling ATLAS 7R

Vehicle Control System

DVECS PC-based distribution network control system running on industrial control hardware.

Fiber Optic System

8 channel SVHS video multiplexer
Data multiplexer with 16x RS232 or RS485 channels





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VEHICLE MODEL - SMD-Quantum

Surface Performance

Forward3.2knots nom
Lateral3.0knots nom
Vertical2.0knots nom

Video System

Recording FormatDVD
Provision for eight cameras
Focus zoom control on each channel

Light Output (available)

Provision for up to twelve 250W diffused lights.

Control Sensors

Auto heading
Auto depth
Auto altitude
Auto hold (DVL option)

Gyro Compass System

Standard - Tritech Intelligent Gyro/Compass
Resolution : >0.1 deg
Accuracy : Better than 1 deg
Optional True North Seeking FOG

Location System

Various sonar system options
Transponder / responder

Indication Sensors

Heading +/- 1.0 degree
Pitch & Roll +/- 1.0 degree
Altitude +/- 0.025%
Depth +/- 0.01%
Water ingress
Low oil alarm
Hydraulic temperature
Hydraulic pressure
Three phase.....50/60 Hz.
Line insulation monitoring vehicle turns.

Optional Tether Management System (TMS) -SMD

Top - hat Design
Height > 2400mm
Diameter > 2175mm
Weight in air > 2800kg
Tether capacity
Standard 450m
Optional 600m or 1000m

Electrical Supply Requirements

475Kva380-480Vac
Three phase..... 50/60 Hz