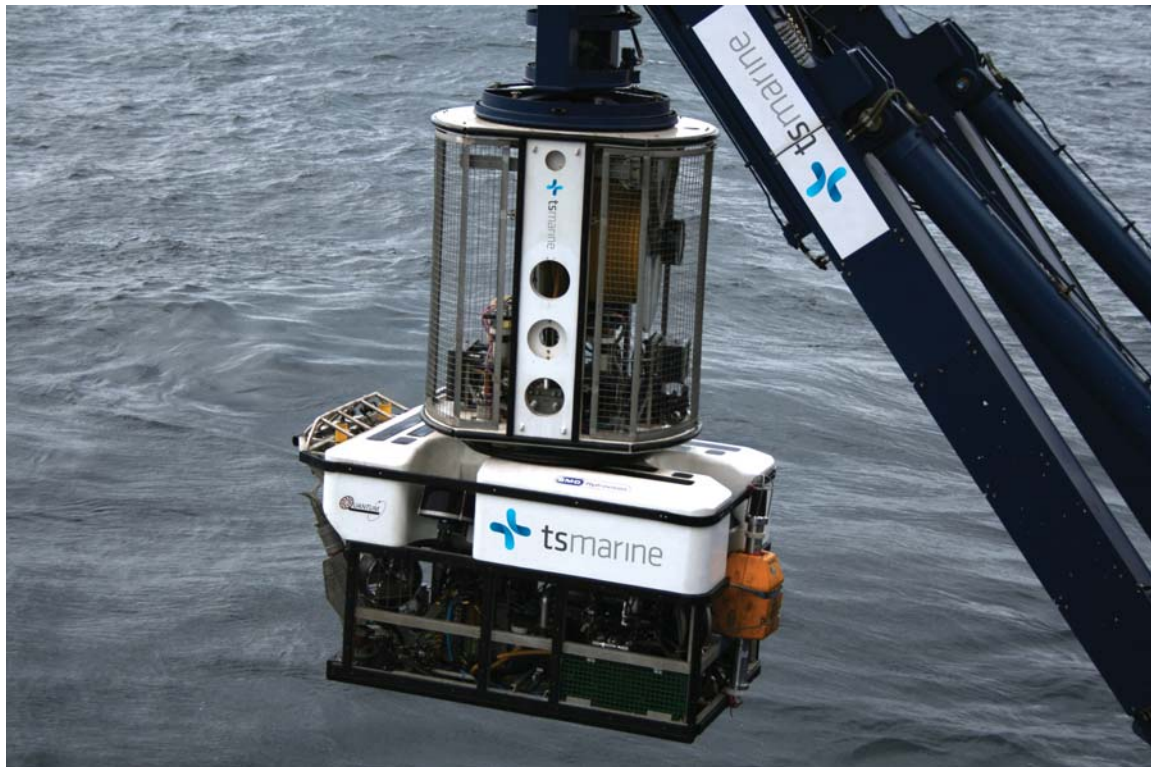


# Quantum WROV

## 150 HP Heavy Workclass ROV System



**The** Quantum Workclass ROV combines high performance with a rugged construction and powerful tooling capability.

The Quantum has a payload capacity of up to 350kg for transporting or recovering equipment subsea and a through frame lift of 3000kg.

The Quantum uses the DVECS Control System package, which is powerful, simple and extremely stable.

DVECS offers true distributed control for a reduction in subsea control hardware and cabling complexity while offering increased diagnostic monitoring.

Using latest generation CURVETECH components, the Quantum provides high performance propulsion and tooling power.

<b>Depth Rating</b>	3000msw
<b>Tether Management System</b>	TMS C/w 350m tether
<b>Power</b>	150HP hydraulic power system
<b>Through Frame Lift</b>	3000kg
<b>Control System</b>	SMDH Distributed Vehicle Control System (DVECS)
<b>Payload Capacity</b>	350kg
<b>Manipulators</b>	Schilling T4 Whittaker M5

# Quantum WROV

## 150 HP Heavy Workclass ROV System

### Technical Specification

#### DIMENSIONS

Length	3350mm
Width	2100mm
Height	2100mm
Depth Rating	3000msw
Weight in Air	4000kg
Payload Capacity	350kg
Through frame lift	3000kg

#### SENSORS

Heading, Pitch and Roll	Tritech iFG Fibre Optic Gyro Tritech iGC Grypcompass
Depth	Tritech Bathy
Altimeter	Tritech 500kHz
Sonar	Tritech Super Seaking DFS

#### AUTO FUNCTIONS

Auto Depth Control	± 0.01%
Auto Altitude Control	± 0.025%
Auto Heading Control	± 1.0 degree
Pitch and Roll Control	± 1.0 degree

#### HYDRAULIC SYSTEM

Motor	3000VAC, 50/60Hz, 150HP
Main hyd output pressure	250bar
Main hyd output flow	300Lt/min
Auxiliary hyd output pressure	210bar
Auxiliary hyd output flow	110Lt/min

#### PROPULSION SYSTEM

Thrusters Horizontal	4 x Curvtech HTE380 c/w 380mmØ propellers
Thrusters Vertical	3 x Curvtech HTE380 c/w 380mmØ propellers
Bollard Pull (Nominal)	
– Forward	890kgf
– Lateral	820kgf
– Vertical	650kgf

#### CAMERAS

Camera Interface	2 x Junction Boxes
Standard fitted	2 x Simrad OE 14-366 Colour Zoom Simrad OE 15-102 Near SIT Simrad OE 15-108 Mini mono
Maximum Capacity	8 cameras

#### LIGHTING SYSTEM

Circuit Configuration	8 x 250W, 110Vac lamps 2 x 400W, HID
Total Lighting Capacity	3000 Watts

#### MANIPULATORS

Right Hand Mounted	Schilling T4 manipulator c/w intermeshing jaws
Left Hand Mounted	Schilling Rigmaster c/w intermeshing jaws

#### LARS

Winch Capacity	3300m of 35mm NSW Umbilical
Winch Line Pull	15.0Te
Winch Speed	50m/min
A-frame Outreach	4.0m
Winch/A-frame Controls	Local deck mounted control stand and remote from Operations console in cabin/ship
Zone Rating	Class I DIV 2 (Zone II)

#### TETHER MANAGEMENT SYSTEM

Depth Rating	3000m
Dimensions	2200mm diameter, 2250mm height
Weight - In Air	3500kg
Weight - In Seawater	3100kg
Load Capacity	12000kg at Seastate 6
Tether Capacity	500m of 35mmØ tether OR 900m of 27mmØ tether
Tether Length	350m of 35mm neutral tether

#### CONTROL ROOM

Type	Vessel Integrated
Incoming Power Supplies	380Vac - 480Vac, 60Hz supply
Power Distribution	Transformer for ROV hydraulics Transformer for ROV electronics Transformer for TMS HPU Transformer for TMS electronics Ground fault detection circuits Deck cable interface
Control Console	8 x 19" flat screen monitors (4 x video, 4 x control/diagnostics) 2 x free standing floor to ceiling 19" racks 1 x DVECS free standing ergonomic control console for flat wall installation DVD Recorders Surface communications Manipulator control

#### DECK POWER PACK

Power Output	15kW charge cart Safe area rated CJC oil reclaim unit fitted
Zone Rating	Class I DIV 2 (Zone II)