

QUANTUM WROV

150 HP Heavy Workclass ROV System



Quantum Workclass ROV

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.

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

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 Curvetech HTE380 c/w 380mmØ propellers
Thrusters Vertical	3 x Curvetech 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)