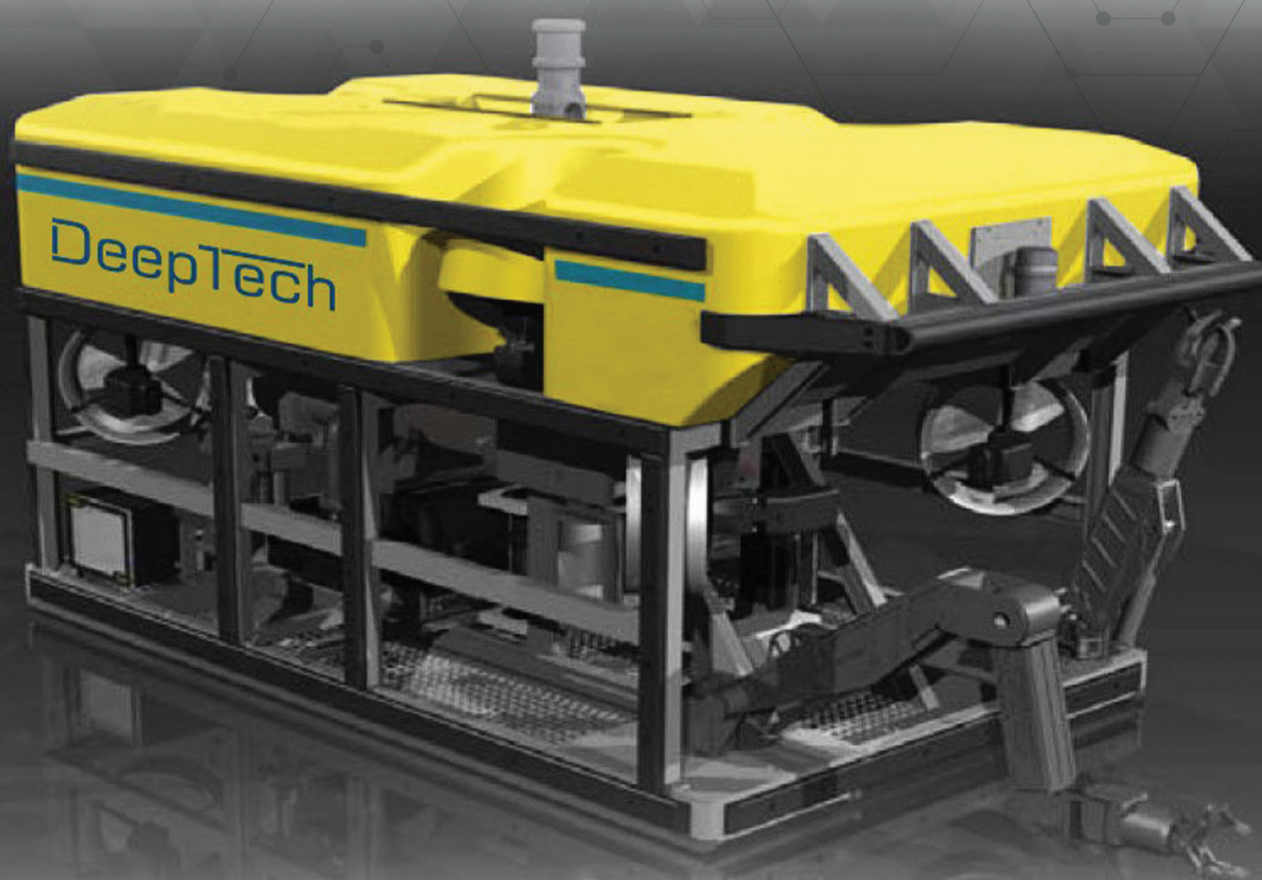


QUANTUM 5

TECHNICAL SPECIFICATION



DeepTech

deeptechoilservices.com



SYSTEM SUMMARY

The Quantum 5 is the ultimate subsea construction and survey tool, designed to cope with power intensive Deepwater tasks in the harshest environments up to 3000m. These ROV systems offer a comprehensive combination of 1x7 Function Manipulator, 1x5 Function Manipulator. It's SMDs' largest work class ROV and utilizes the latest Curvetech™ multi-platform components. Access to these quick release components is fast and easy and decreases maintenance time while increasing availability. The vehicle offers class-leading performance and extensive free tool and instrument space for ultimate flexibility.



POWER

The Quantum 5 has industry leading payload, thrust and tooling power figures.



CONTROL

The DVECSII Control System package is powerful, simple and extremely stable and offers increased diagnostic monitoring.



FLEXIBILITY

The system is fully configurable for survey and heavy construction tasks.

TECHNICAL OVERVIEW

Depth Rating	3000msw
Tether Management System Power	11.5HP hydraulic power system
Through Frame Lift	3000kg
Control System	DVECSII Dual Cyber chair Control System
Payload Capacity	180kg
Manipulators	Schilling T4/ Schilling Rigmaster

DIMENSIONS

Length	3450mm
Width	2100mm
Height	2100mm
Depth Rating	3000msw
Weight in Air	4000kg
Payload Capacity	180kg

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

SENSORS

Heading, Pitch and Roll	Mini Octans Gryo-compass/TOGS NAV CDL
Depth	Impact subsea ISA4000/ TOGS NAV CDL
Altimeter	Impact subsea ISD500/ TOGS NAV CDL
Sonar	Tritech Super Seaking

HYDRAULIC SYSTEM

Motor	3000VAC, 50/60Hz, 150HP
Main hyd output pressure	250bar
Main hyd output flow	306Lt/min
Auxiliary hyd output pressure	210bar
Auxiliary hyd output flow	136Lt/min

PROPULSION SYSTEM

Thrusters Horizontal	4 x Curvetechn HTE380 c/w
Thrusters Vertical	3 x Curvetechn HTE380 c/w
Bollard Pull (Nominal)	
– Forward	≥ 800kgf
– Lateral	≥ 800kgf
– Vertical	≥ 650kgf(down) & ≥500 kgf(up)

LIGHTING SYSTEM

Circuit Configuration	12 x 95W, 110Vac lamps/ 2 x 320W, HID
Total Lighting Capacity	1800 Watts

LARS

Manufacturer	LAWSON
Type	A-Frame, Hydraulic
Winch Capacity	3200m of 42mm Umbilical
Safe working load	12.0Te
Winch Speed	60m/min
A-frame Outreach	4.7m
Winch/A-frame Controls	Both wireless remote control and local manual controls.

CONTROL ROOM

Type	Zone-II 20' offshore Container
Incoming Power Supplies	380Vac – 480Vac, 60Hz supply
Zone Rating	Zone II
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	Dual Cyber chairs control system. Dual joystick control. 4x 43" flat screen monitors, each one can be divided into 4 small screens and it's configurable to switch video or control between the screens. 1x DVECSII free standing control console for Recording systems, Surface communications, Manipulator control.

CAMERAS

Maximum Capacity	6 cameras
Definitions	6 x SD 1 x HD-SDI

MANIPULATORS

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

TETHER MANAGEMENT SYSTEM

Depth Rating	3000m
Dimensions	2200mm diameter, 2250mm height
Weight	3500kg
Load Capacity	12000kg at Sea state 6
Tether Capacity	500m of 35mm diameter OR 900m of 27mm diameter

*All of our ROVs can be customized and integrated with the MCS product-line including the 3D Photo Realistic Cloud (3D PRC) and the Platform and Pipeline Commander systems for fast and accurate data which is easy to access and share.



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