

QUANTUM 31

TECHNICAL SPECIFICATION



DeepTech

Part of the MCS Group
deeptechoilservices.com

SYSTEM SUMMARY

The Quantum 31 is the ultimate subsea construction and survey tool, designed to cope with power intensive Deepwater tasks in the harshest environments up to 3000 m. 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 31 has industry leading payload, thrust and tooling power figures.



FLEXIBLE

Space within its frame for mounting tools and instruments is exceptional. This flexibility means better in-water performance and current holding capabilities



USER-FRIENDLY

It uses the DVECSII control system which can be mastered quickly helping reduce operational risk.

TECHNICAL OVERVIEW

200HP & 250HP Power Options

Up to 1100kg Bollard Pull

Isolated Tooling Hydraulics

350kg Payload

SMD DVECSII Digital Telemetry

HDTV & Gigabyte Capability

SMD AutoROV Advanced Control Modes

Option for DriROV built-in ROV Simulator

Latest Curvetech 'Multi-platform' ROV Building Blocks

SYSTEM SPECIFICATION

Depth Rating (Standard)	3000 msw
Depth Rating (Optional)	1000, 2000, 4000msw
Length	3678mm
Width	2000mm
Height	2144mm
Weight in air (std)	5000kg
Payload	350kg
Through Frame Lift	4000kg
Aft TDU mounting	1000kg

PERFORMANCE

- 1100kgf Forward/aft Bollard Pull
- 1100kgf Lateral Bollard Pull
- 900kgf Vertical (up) Bollard Pull
- 3.5kn Forward surface performance
- 2.8kn Lateral surface performance
- 2.2kn Vertical surface performance
- Auto Functions: Heading, Depth, Altitude, ROV DP.
- Horizontal Vectored Thruster – 4 x Curveteck HTE 420BA
- Vertical Thruster – 4 x Curveteck HTE 300BA
- 250hp (186kW) Total Hydraulic Power (Standard)
- 200hp (110kW) Total Hydraulic Power (Optional)
- 82hp (61kW) Isolated Tooling Power (Standard)
- 58hp (43kW) Isolated Tooling Power (Optional)

CONTROL CABIN

- Standard Control Cabin: 16ft/20ft, A60 ISO Zone II 3G
- Standard Control System: SMD DVECSII ROV Control Hardware. Dual touchscreens. 8 x 19” TFT Video Wall
- Optional Control System: Customer Choice. Dual or single joystick control. 1 x 32” HDTV + 6 x 19” TFT Video Wall
- Incoming power supplies: 380V-480Vac
- Optional power supplies: 690Vac, 3 phase 60Hz/50Hz
- TMS Control/Interface: SMD Tophat, SMD Garage

INSTRUMENTS/TOOLING

- Standard Hydraulic Channels: 24 x (15LPM), 2 x (35LPM), 2 x (95LPM)
- Optional Hydraulic Channels: Torque tool control Zetechtics Jupiter 2 fitted as standard
- 8 x standard channels composite
- 2 x HDTV channels
- Standard Gyro: FOG, Gyro Compass
- Optional Gyro: NS FOG
- Standard lighting: 12 x Halogen or LED
- Optional lighting: 2 x 120Vac @ 400W HID
- 2 x Electric/HYD Standard camera pan/tilt
- 1 x Optional additional camera pan/tilt unit
- 1 x Electric/Hyd Camera Tilt
- 6.0kVA Instrument Power
- Manipulator – 1 x 7F (pos feedback heavy duty) Schilling Titan 74
- 1 x 5F (rate, heavy duty) Grabber Rigmaster
- Teledyne Blueview Sonar
- Novatech ST400A Xenon Flasher
- Extending Tool Basket

DECK EQUIPMENT OPTIONS

- SMD launch equipment including A-frames and winches
- Options for up to Sea State 6 operations
- Active or passive heave compensation
- Aramid/SWA umbilical choices

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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