

# QUANTUM MKIII

HEAVY DUTY WORK CLASS ROV



## 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



# REVER HEAVY DUTY WORK CLASS ROV

Quantum is SMD's largest Work Class ROV suitable for heavy construction duties. Utilising the latest "multi-platform" Curvetech components, the vehicle offers class leading in current performance and extensive free tool and instrument space. Designed to cope with power intensive deepwater tasks, Quantum is the ultimate subsea construction and survey tool.

## QUANTUM SYSTEM SPECIFICATION

<b>Depth Rating (Standard)</b>	3000 msw
<b>Depth Rating (Optional)</b>	1000, 2000, 4000msw
<b>Length</b>	3678mm
<b>Width</b>	2000mm
<b>Height</b>	2144mm
<b>Weight in air (std)</b>	5000kg
<b>Payload</b>	350kg
<b>Through Frame Lift</b>	4000kg
<b>Aft TDU mounting</b>	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 Curvetech HTE 420BA
Vertical Thruster – 4 x Curvetech 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)

## 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

## 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

## 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

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