Engineering
Excellence
Underwater

# SMD QUANTUM®

Class leading payload, thrust and tooling power
Exceptional tool mounting capability
User friendly operating system
Ease of maintenance
Ease of fleet management

## Class-leading payload and power.

SMD Quantum® has class leading payload, thrust and tooling power figures. It is designed primarily for heavy construction and salvage work and can also be used as an effective survey platform. Space within Quantum's frame for mounting tools and instruments is exceptional. This flexibility means better in-water performance and current holding capabilities when measured against rivals that need to use a skid.

- Class leading payload, thrust and tooling power
- Exceptional tool mounting capability without compromise on in-water performance
- User friendly operating system
- Powerful, proven curvetech® components for fast changeouts, ease of maintenance and peace of mind
- Interchangeable with SMD Quasar systems for ease of fleet management

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| GENERAL | |
|---|---|
| Type | Ultra-Heavy-Duty |
| Depth rating | Up to 4000 msw |

| DIMENSIONS | |
|---|---|
| Length | 3700 mm |
| Width | 2000 mm |
| Height | 2000 mm |
| Weight in air | 5000 kg |
| Payload | 350 kg |
| Through frame lift | 4000 kg |

| PERFORMANCE | |
|---|---|
| Power transmission | AC |
| Power | 250hp (186 kW) |
| **Bollard pull:** | |
| Forward/aft | 1100 kgf |
| Lateral | 1100 kgf |
| Vertical | 900 kgf |
| **Surface performance:** | |
| Forward/aft | 3.5 kn |
| Lateral | 2.8 kn |
| Vertical | 2.2 kn |

| AUTO FUNCTIONS | |
|---|---|
| Heading | Yes |
| Depth | Yes |
| Altitude | Yes |
| ROV Dynamic Positioning | Yes |
| Advance Flight Control | |

| THRUSTER CONFIGURATION | |
|---|---|
| Thrusters | Curvetech® |
| Horizonal vectored | 4× Curvetech HTE 430 |
| Vertical | 4× Curvetech HTE 300 |

| TOOLING | |
|---|---|
| Compatibility | Heavy Intervention / Construction |
| Standard hydraulic power unit | 12ch iHCU (15LPM), 4ch (high flow) |
| Configurable hydraulic stations | Torque tool controller |
| Interchangeable modules | 2× 12ch iHCU (15LPM), 4ch iHCU (15LPM) |

| INSTRUMENTS | |
|---|---|
| Standard Port availability | 28x total |
| Additional port availability | Additional port capacity potential via external multiplexer |
| Serial Comm/Connectivity | 24x 24Vdc with RS232/ RS485<br>1x 110 Vac, 9x RS485, 6x RS232, 1x Responder ports, Optional PPS Pulse |
| Video capability | 6x channels composite + 2x HDTV channels |
| Ethernet Capacity | Up to 2 Gbps |
| Additional ports for Survey POD | Fibre and power |
| 4k Camera option | N/A |
| Lighting | 2x HID + 10x LED |
| Gyro | Sprint NAV Mini, Optional INS port |
| Camera pan/tilt | 2x electric |
| Manipulator | 1 x 7F pos feedback (T4 compatible) |
| Grabber | 1 x 5F (rate, heavy duty) |


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| TMS | |
|---|---|
| Type | Compact or Extended TMS |
| Tether capacity | 500 m or 900 m |
| Slipring Fibre Passes | 3 |

| CONTROL CABIN | |
|---|---|
| Standard | 20 ft A60 High Cube ISO control cabin |
| Control system standard | SMD DVECSII ROV control hardware. 4× 43" 4K in video wall configuration |
| Standard incoming power supply | 380–480 VAC 3 phase 60–50 Hz |
| Optional | 690 VAC 3 phase 60–50 Hz |

| DECK EQUIPMENT OPTIONS | |
|---|---|
| Typical LARs System | 12 Te SWL LARS |
| A-Frame | Telescopic A-Frame |
| Winch | Hydraulic |
| Winch capacity | 3500 m |
| HPU | 150 kW or 180 kW HPU |
| Slipring Fibre Passes | 4 |
| Energy dissipation | N/A |

| SMD ARTEMIS™ CABLE TRACKING | |
|---|---|
| **Detection Range** | |
| Passive | Up to 10 m |
| Active | Up to 5 m |
| Vertical measurement accuracy | +/-5% plus 5 cm |
| Depth rating | 2000 m |

| OTHER | |
|---|---|
| Best for | Deepwater trenching & heavy ops |
| SMD Horizon® ready? | Yes |


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## SMD Customisation Service

In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

## 24/7 Support

Our world-class product range is backed by 24/7 support from our best-in-class SMD Support Services team, because our commitment to you doesn't stop when our product is delivered.
Our end-to-end support system optimises the performance of our products giving you confidence your SMD kit will perform. For more information on our support services click here.

## Turnkey Solutions

We offer turn key solution for all products, get in touch to find out more.

Heavy duty construction work class ROV.


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