Engineering
Excellence
Underwater

SMD QUANTUM® EV

- Unparalleled performance capability
- Speedy maintenance offshore
- Advanced flight control for intuitive, consistent operation
- Lightweight easy mobilisation
- Stability and precision in strong currents

Intelligent. Sustainable.
Unstoppable.

SMD Quantum® EV is a large electric work class ROV that is suitable for heavy-duty construction, IRM, salvage and science work.

Equipped with advanced solid state DC power electronics, SMD's flagship electric work class ROVs are 20% lighter, offer 20% more payload and 20% more available payload space versus AC equivalents.

— Unparalleled performance capability with a minimal environmental impact
— Plug and play components for speedy maintenance offshore
— Advanced flight control for intuitive operation and consistent performance regardless of pilot experience
— Extensive onboard connectivity designed to cater for high bandwidth survey demands
— Optimised power for stability and precision even in strong currents

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GENERAL	
Type	Electric Ultra-Heavy-Duty
Depth rating	Up to 6000 msw

DIMENSIONS	
Length	3500 mm
Width	1800 mm
Height	1900 mm
Weight in air	4500 kg
Payload	350 kg
Through frame lift	4000 kg

PERFORMANCE	
Power transmission	DC
Power	200 kW
Bollard pull:	
Forward/aft	≥ 1250 kgf
Lateral	≥ 1250 kgf
Vertical	> 800 kgf
Surface performance:	
Forward/aft	> 4.2 kn
Lateral	> 3.2 kn
Vertical	> 2.4 kn

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

THRUSTER CONFIGURATION	
Thrusters	Curvetech® E all-Electric Propulsion
Horizonal vectored	4× Curvetech 25kW e-thrusters
Vertical	4× Curvetech 15kW e-thrusters

TOOLING	
Compatibility	Electric Intervention & Construction
Standard hydraulic power unit	50 kW (68 hp)
Configurable hydraulic stations	Dual Pump
Interchangeable modules	8ch LF module, 4ch MF module, 2ch HF module, 2ch UHF module

INSTRUMENTS	
Standard Port availability	2x Intelligent JB with 12x multifunction ports each
Additional port availability	Additional port capacity potential via external multiplexer
Serial Comm/Connectivity	26x 24Vdc / 22x 110Vac, 4x Responder ports, 2x PPS pulse 14x 110 Vac, 18x RS232, 4x RS485
Video capability	8x Camera composite, IP Camera Compatible
Ethernet Capacity	Up to 2 Gbps
Additional ports for Survey POD	Fibre and power
4k Camera option	Optional
Lighting	Up to 14 lights
Gyro	Sprint NAV Mini, INS port included
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 eTMS
Tether capacity	600 m or 1200 m
Slipring Fibre Passes	4

CONTROL CABIN	
Standard	20ft A60 High Cube ISO control cabin
Control system standard	SMD ROV DVECS III 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	14 Te SWL iLARS
A-Frame	Telescopic A-Frame
Winch	Electric
Winch capacity	3500 m, 4500 m or 6500 m
HPU	60kW HPU built into AF base
Slipring Fibre Passes	4
Energy dissipation	Brake Resistors or Re-gen

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, high-endurance, low-emission ops
SMD Horizon® ready?	Yes

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SMD Customisation Service

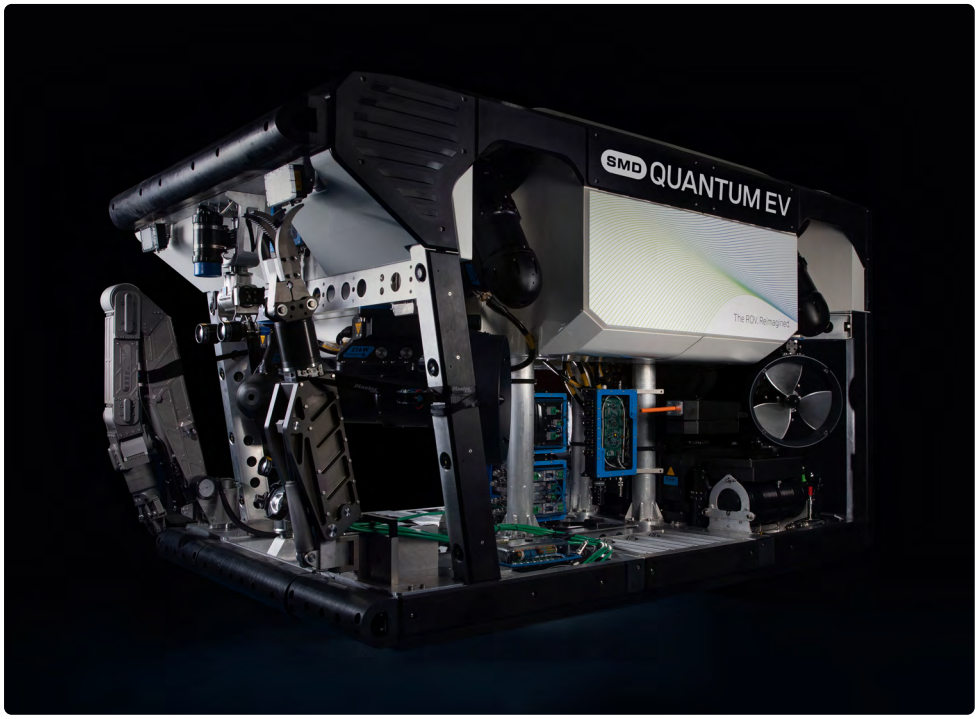
In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

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.



Electric work class ROV with class leading payload capacity.

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