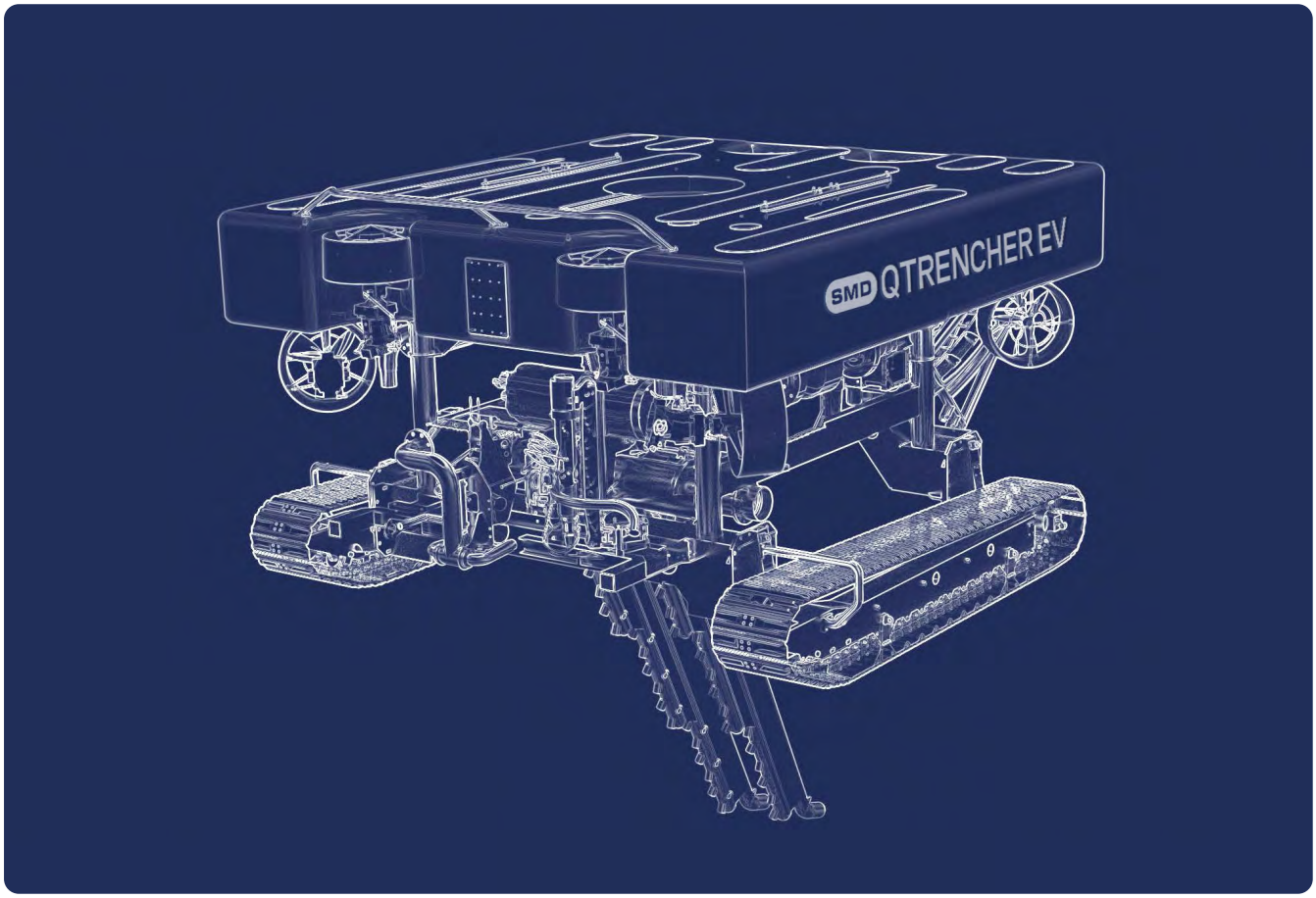
Engineering
Excellence
Underwater

SMD QTRENCHER EV

- Increased performance
- Reduced deck footprint
- Reduced operational costs
- Easily maintained
- Reduced spares holding



Powering the future of trenching innovation.

The QTrencher® EV range offers all of the capability of the time-served QTrencher vehicles with the improved performance and footprint efficiencies afforded by our unparalleled electric drive technology. This game-changing trenching innovation allows operators to benefit from improved trenching progress rates and reduced need for multipass trenching operations without the need for increased deck space or vessel power. Our plug and play modular electric architecture means fewer moving parts for easy maintainability and a significantly reduced spares holding, allowing for more cost effective operations with absolute minimum down time and maximum return on investment.

- Increased performance vs. hydraulic counterpart for increased progress rates and no need for multipass trenching
- Reduced system deck footprint without compromising on performance
- Less power input requirement for reduced operational costs alongside increased green credentials
- Plug and play architecture for easy maintainability and increased uptime
- Fewer moving parts means a significantly reduced spares holding

All content copyright SMD.

SMD QTRENCHER EV
Product Specifications

GENERAL	
Type	Compact Electric Jet Trencher – Telecoms
Depth rating (up to)	3000 msw

DIMENSIONS (WITH TRACKS)*	
Length	5.9 m (with 3 m swords)
Width	3.8 m
Height	2.7 m
Weight in air (depending on configuration)	13 Te
Buoyancy for reduced subsea weight	Yes

PERFORMANCE	
Power	Up to 450 kW
Free Fly Capability	N/A

THRUSTER CONFIGURATION	
Thrusters	Curvetech®
Horizontal Vectored	4× Curvetech™ ET390
Vertical	4× Curvetech™ ET390

MECHANICAL	
Construction	High strength aluminium frame
Tracks	Bolt on steel chassis tracks
Skids	Bolt on aluminium skids

JETTING SYSTEM	
Jetting Tool	Twin leg jet tool with forward/downward and inward facing jets (sub seabed), back wash and cable depressor
Operating Pressure	Typically 6–8 bar
Trench depth (up to)	3.0 m
Width control	100–475 mm remotely adjustable
Water supply	Twin hydraulically driven water pumps
Forward jet tool	Twin jet device (above seabed) which jets down either side of product

TOOLING	
Cable cutter	Yes
Cable clamp	Yes
Cable grapnel	Yes

INSTRUMENTS	
Instrumentation suite available	Yes
Surveillance Suite available	Yes
Manipulator	2×7 ftn
Grabber	Yes
Electronics Pod	One Atmosphere aluminium pressure vessel
Depth Rating	2500 m
Communication	Fibre Optic MUX
Vacuum Port	Connection point for vacuum checking of seals in faceplate
Spare channels	Minimum of 4 spare connections for serial and analogue systems

CONTROL CABIN	
Control & power system	Vessel integrated or housed in A60 containers (1 x 20ft & 1 x 12ft)
Umbilical system	Steel wire armoured umbilical cable
Incoming power supply Typically	440 V 3 Ph, 60 Hz

All content copyright SMD.

DECK EQUIPMENT OPTIONS	
Typical LARS System	SMD Wide Angle A-Frame and Axial Fleeting Umbilical Winch SMD Hangar Gantry LARS and Axial Fleeting Umbilical Winch
HPU	1× 60 kW

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	High power trenching capability for the burial of cables
SMD Horizon® ready?	Yes

All content copyright SMD.

Low cost cable burial solution for shallow water applications.

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.

All content copyright SMD.