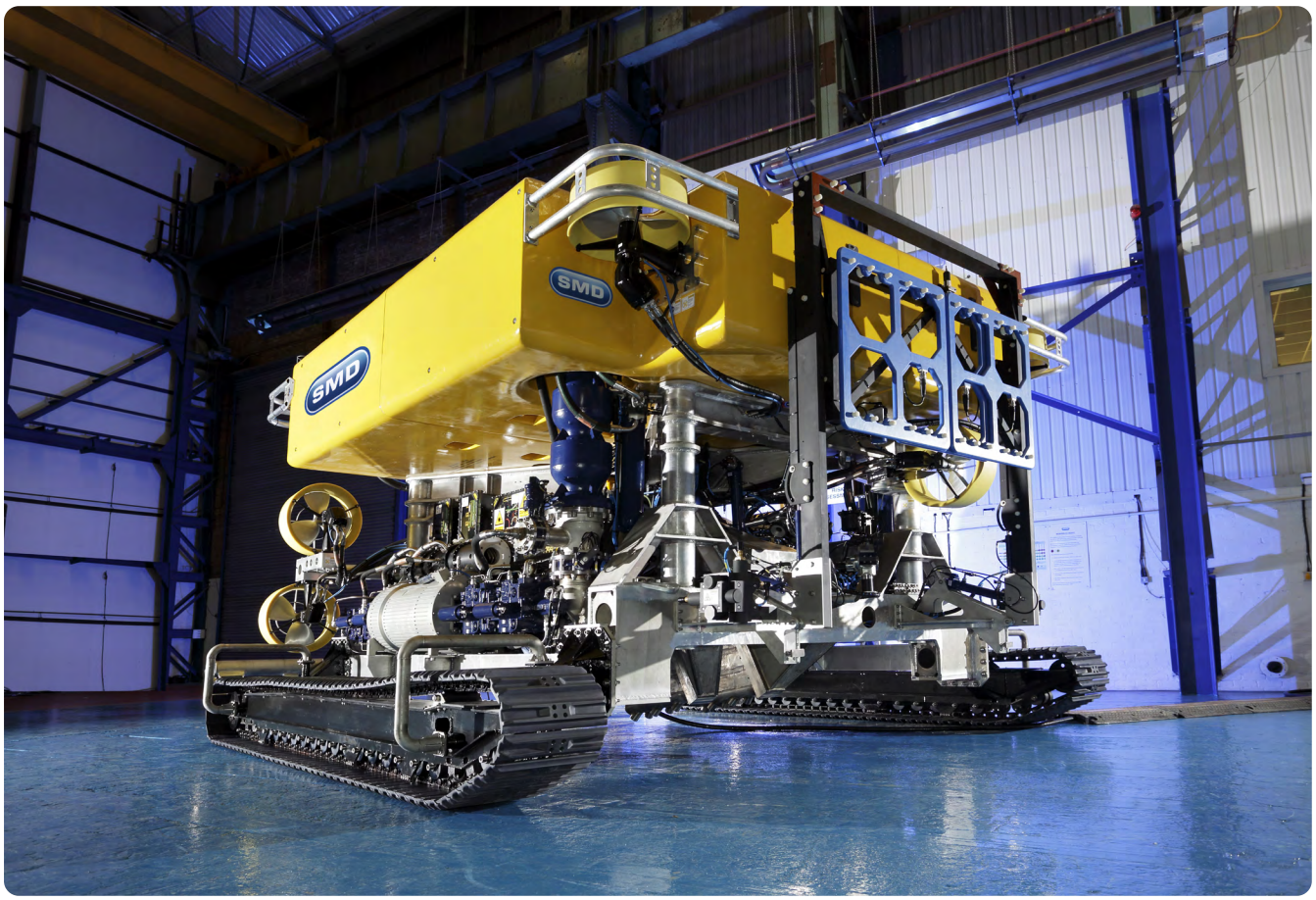
Engineering
Excellence
Underwater

SMD Q TRENCHER

Power cable trenchers

- Versatile jetting system
- Minimal deck space requirements
- Engage very soft to hard seabeds
- Highly manoeuvrable
- Minimal down time



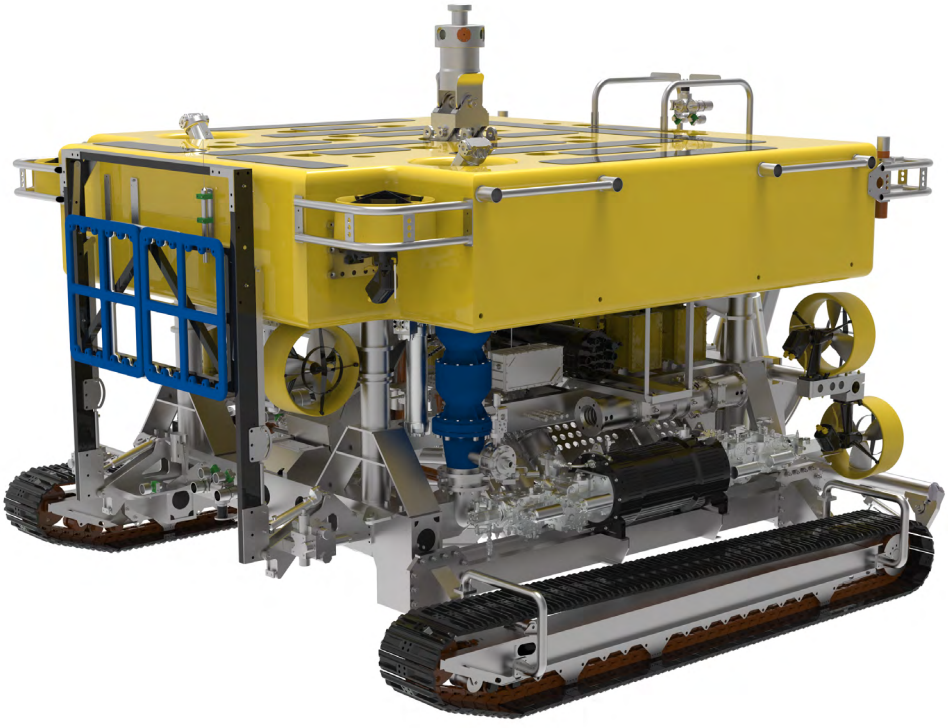
High power jetting, lightweight footprint.

SMD's power cable trenching range encompasses our high power QTrenchers and Shallow Water Trenching solution. The range provides clients with a versatile and powerful, cost effective and scalable cable maintenance and repair solutions with options for all budgets and operational requirements.

The lightweight and compact QTrencher systems use high power to provide effective cable maintenance and other specialised tasks down to 3m burial. Purpose designed to provide maximum jetting and thrust performance, the QTrencher ROVs have developed a reputation for reliability and ease of maintenance. With an impressive track record, they have become an essential part of any suite of cable maintenance and installation vehicles.

Now with scalable power, clients can benefit from cost savings associated with dialling up and down power to match operational requirements.

- Jetting configuration enables superior performance in sands and clays for reduced operational time
- Low submerged weight enables excellent manoeuvrability for accurate subsea positioning, without sacrificing tooling power and capability
- Enables trenching right up to turbine foundation, reducing requirement for methods such as rock dumping and mattressing
- Purpose built LARS allows safe operations into high sea states



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SMD QTRENCHER
Product Specifications

GENERAL	QT800	QT1000	QT1200
Type	Jet Trencher Telecoms/Power	High Power Jet Trencher Power	High Power Jet Trencher Power
Depth rating (up to)	2500 msw	2500 msw	2500 msw
DIMENSIONS (WITH TRACKS)*			
Length	5.9 m	6.5 m	6.5 m
Width	4.2 m	5.5 m	5.5 m
Height	3.3 m	3.9 m	3.9 m
Weight in air (depending on configuration)	17 Te	25 Te	30 Te
Buoyancy for reduced subsea weight	Yes	Yes	Yes
PERFORMANCE			
Power	600 kW (2×300 kW)	750 kW (2× 375 kW)	900 kW (2× 450 kW)
Free Fly Capablilty	Limited	Limited	Limited
THRUSTER CONFIGURATION			
Thrusters	Curvetech®		
Horizontal Vectored	4× Curvetech™ HTE500		
Vertical	4× Curvetech™ HTE500		
MECHANICAL			
Construction	High strength aluminium alloy		
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 12–15 bar	Typically 12–15 bar	Typically 12–15 bar
Trench depth (up to)	3.0 m	3.0 m	3.0 m
Width control	100–475 mm remotely adjustable	120–660 mm remotely adjustable	120–660 mm remotely adjustable
Water supply	Twin hydraulically driven water pumps	Twin hydraulically driven water pumps Variable 0 to 2500m3/hr and 4 to 6 bar–low pressure Variable 0 to 1000m3/hr and 10 to 15 bar–high pressure	Twin hydraulically driven water pumps Variable 0 to 1400m3/hr and 10 to 15 bar–high pressure Variable flow 6 bar low pressure
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	2×7ftn		
Grabber	Yes		
Electronics Pod	One Atmosphere aluminium pressure vessel		
Depth Rating	2500 m		
Communication	Fibre Optic MUX		

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Vacuum Port	Connection point for vacuum checking of seals in faceplate
Spare channels	Built in spare RS232, RS485, Ethernet 110V, 24V

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

DECK EQUIPMENT OPTIONS			
Typical LARS System	SMD Wide Angle A-Frame and Drum Fleeting Umbilical Winch	SMD Wide Angle A-Frame and Drum Fleeting Umbilical Winch with Snatch Limiter	SMD Wide Angle A-Frame and Drum Fleeting Umbilical Winch with Snatch Limiter
HPU	2× 150kW	2× 175kW	2× 175kW

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 and pipelines
SMD Horizon® ready?	Yes

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SMD Customisation Service

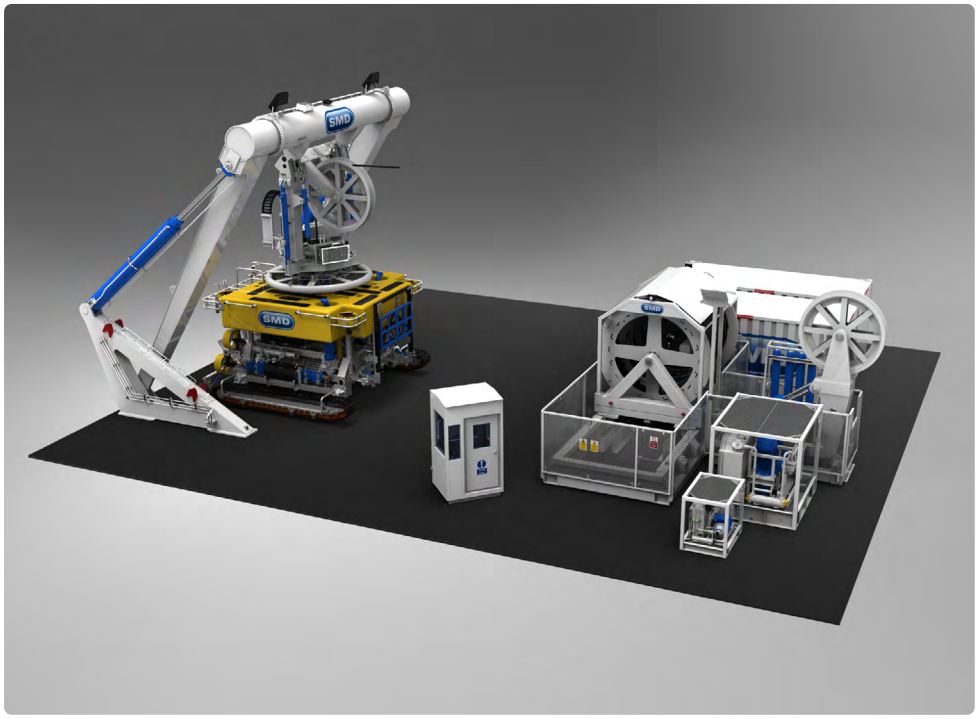
In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

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.



Compact and versatile power cable trenching solution.

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