Engineering
Excellence
Underwater

SMD QTRENCHER

Telecoms trenchers

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

High power jetting, lightweight footprint.

The QTrencher cable maintenance ROV series is a versatile and powerful, cost effective cable maintenance and repair solution for the telecoms market. The lightweight and compact 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.

- Versatile jetting system for effective soil cutting
- Minimal deck space requirements
- Ability to engage very soft seabeds
- Highly manoeuvrable to suit a range of operational requirements
- Interchangeable tools to suit mission requirements with minimal down time

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SMD QTRENCHER
Product Specifications

GENERAL	QT400	QT500	QT600
Type	Compact Jet Trencher – Telecoms		
Depth rating (up to)	3000 msw		
DIMENSIONS (WITH TRACKS)			
Length	4.4 m (with 1.5 m swords)	5.4 m (with 2.5 m swords)	5.9 m (with 3 m swords)
Width	3.8 m	3.8 m	3.8 m
Height	2.7 m	2.7 m	2.7 m
Weight in air (depending on configuration)	11 Te	12 Te	13 Te
Buoyancy for reduced subsea weight	Yes	Yes	Yes
PERFORMANCE			
Power	300 kW	375 kW	450 kW
Free Fly Capablilty	Yes	Yes	Yes
THRUSTER CONFIGURATION			
Thrusters	Curvetech®		
Horizontal Vectored	4x Curvetech™ HTE500		
Vertical	4x Curvetech™ HTE500		
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)	1.5 m	2.0–2.5 m	3.0 m
Width control	100–475 mm remotely ajustable		
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	2×7ftn		
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 (1x 20ft & 1x 12ft)		
Umbilical system	Steel wire armoured umbilical cable		
Incoming power supply Typically	440V 3Ph, 60Hz		

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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	2x 110 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

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SMD Customisation Service

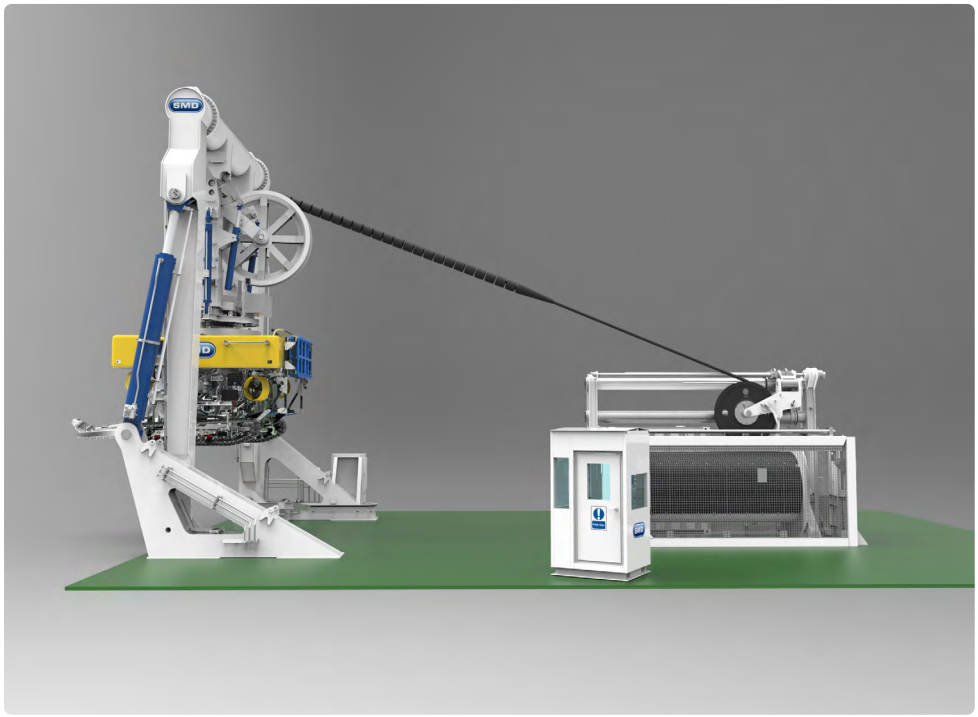
In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

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.



Cost effective telecoms cable maintenance and repair solution.

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