Engineering
Excellence
Underwater

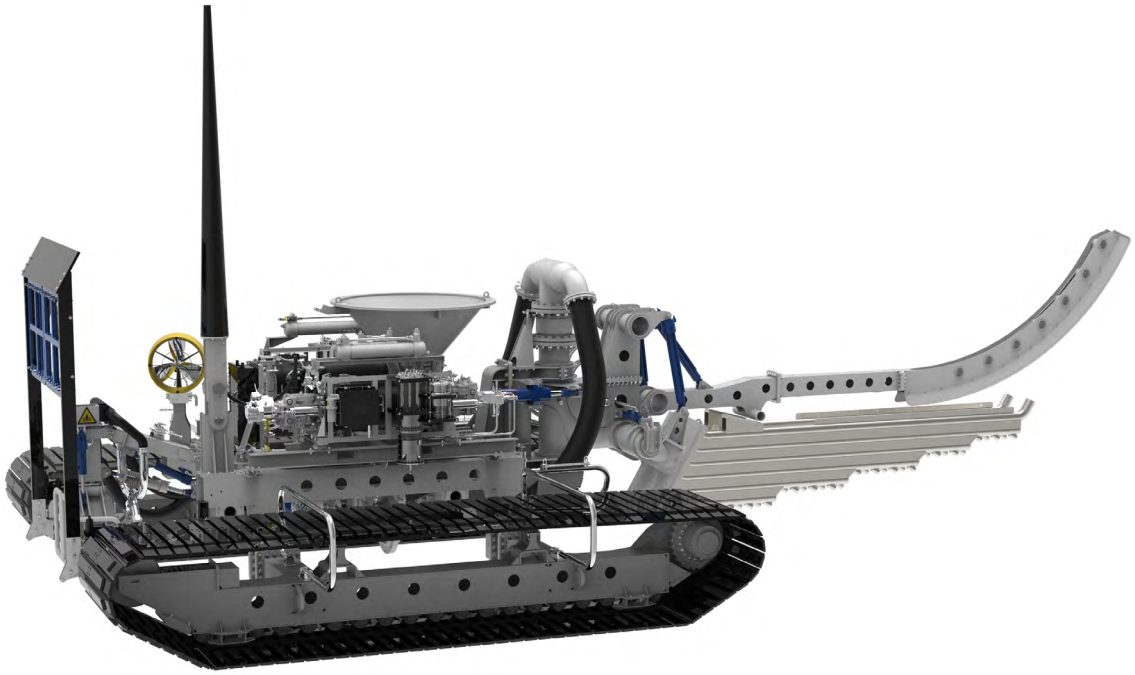
SMD SWT

- Low cost of ownership/rental
- Forwards and backwards compatible, and transportable
- Low vessel requirements—crane launch
- Simultaneous and post lay cable burial modes
- Simultaneous and post lay cable bur
- Full mobilisation and operational support

Shallow Water Trencher.

The SWT draws on SMD's experience of remotely operated track driven vehicles, seabed trenching and submarine cable handling to provide an adaptable shallow water burial solution in sand, silt and clays. The modular design of the SWT allows it to be configured to work on and from the beach, within the intertidal zone and in deeper water around turbine interfaces. This versatility gives the installer an end to end burial solution for submarine power and telecommunication cables.

- Low cost of ownership/available for rental
- Modular: forwards and backwards compatible, and transportable in standard ISO containers
- Low vessel requirements: crane launch
- Simultaneous and post lay cable burial modes
- Full mobilisation and operational support package available



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SMD SWT
Product Specifications

GENERAL	
Type	End to end burial solution for power and telecoms
Depth rating (up to)	200 msw

DIMENSIONS (WITH TRACKS)*	
Length	12 m
Width	5.0 m
Height	3.0 m
Weight in air (depending on configuration)	15 Te typical
Buoyancy for reduced subsea weight	N/A

PERFORMANCE	
Power	800 kW (2× 400 kW)
Free Fly Capablilty	N/a

THRUSTER CONFIGURATION	
Thrusters	Curvetech®
Horizontal Vectored	0× Curvetech HTE500
Vertical	n/a

MECHANICAL	
Construction	High strength steel chassis
Tracks	1.0 m wide plastic tracks on steel chain
Skids	N/A

JETTING SYSTEM	
Jetting Tool	Twin-legged jet tools with down and inward facing jet and cable depressor
Operating Pressure	Typically 15–25 bar
Trench depth (up to)	3.0 m
Width control	100–300 mm, manually adjustable
Water supply	12" water inlet connection suitable for up to 1000m3/hr
Forward jet tool	N/A

TOOLING	
Cable cutter	Yes
Cable clamp	Yes
Cable grapnel	Yes

INSTRUMENTS	
Instrumentation suite available	Yes
Surveillance Suite available	Yes
Manipulator	N/A
Grabber	Yes
Electronics Pod	One Atmosphere aluminium pressure vessel
Depth Rating	N/A
Communication	Fibre Optic MUX
Vacuum Port	N/A
Spare channels	RS232, RS485, Ethernet

CONTROL CABIN	
Control & power system	Integrated control system (ICS) control laptop, operator control box, electrical interface, video recording and control screens
Umbilical system	Steel wire armoured umbilical cable
Incoming power supply Typically	N/A

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DECK EQUIPMENT OPTIONS	
Typical LARS System	SMD/Client supply
HPU	SMD/Client supply

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	Sands, silts and clays
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.

Low cost cable burial solution for shallow water applications.

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