

# THE INDUSTRY STANDARD CABLE PLOUGH MD3 & MD3-XT



ENGINEERING  
EXCELLENCE  
UNDERWATER

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As the original subsea cable burial tool the SMD MD3 plough range is recognised globally as setting the standard in cable ploughing: Approximately 90% of the world's subsea telecoms cables have been buried using SMD equipment.

With its unrivalled track record SMD's MD3 technology is the ultimate in safe, reliable and efficient trenching for all soils including clays and sands.

The flexibility of the MD3 range allows the vehicle to be optimised for the depth of burial required, ground conditions and customer operational preferences.

The XT share extension upgrade allows trenching to 3.3m for genuine 3m product cover.

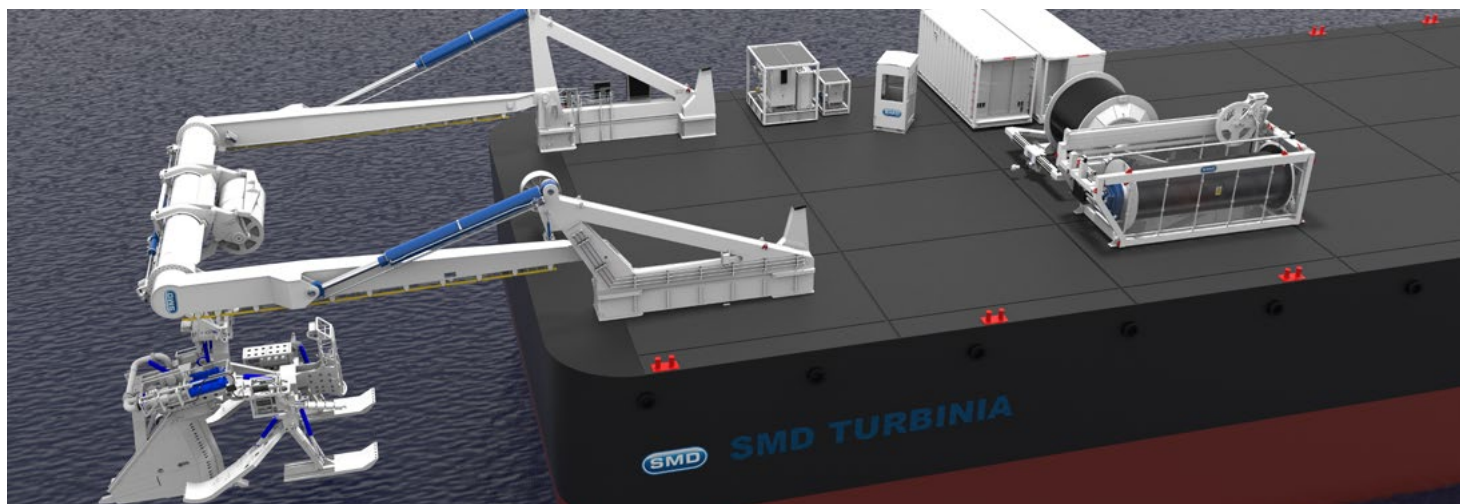
SMD offer a complete turnkey cable burial solution including tow winch, umbilical and LARS system.

## SMD CUSTOMISATION SERVICE

SMD understand that every customer is different and therefore have individual needs from their systems. 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.

## FEATURES

- Maximum plough stability and minimum cable handling afforded by the unique multi-depth hinged chassis design
- Minimal vessel fuel consumption due to low friction share design
- Choose to further minimise vessel fuel consumption or maximise ploughing speed in a wide range of soils with jetting feature
- True 3m burial for maximum cable protection



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## SYSTEM SPECIFICATIONS

GENERAL	MD3	XT
Depth rating max.*	2000msw	2000msw
Dimensions**		
Length	9.1m	9.5m
Width	5.1m	5.5m
Height	4.4m	5.1m
Weight in air	22.0te	23.5te
Submerged weight	19.0te	21.0te
Max tow load	80te	80te

PERFORMANCE	MD3	XT
Variable trench depth	0 - 3m	0 - 3.3m
Max cable diameter	20 - 160mm	17 - 90mm
Min cable bend radius	1.5m	1.5m
Max repeater diameter	380mm	380mm

MECHANICAL	
Construction	High strength steel chassis
Wear parts	Replaceable wear-resistant steel
Other	Stainless steel fittings and housings

TRENCHING SYSTEM	
Configuration	Passive narrow parallel sided share with repeater burial flaps to temporarily widen trench
XT share extension	3.3m trench depth designed for 3.0m cover
Jetting	Up to 2 x 265kW as required

HYDRAULIC SYSTEM	
Installed power	15kW

SUBSEA ELECTRONICS	
Electronics	One atmosphere pressure vessel

SUBSEA SURVEILLANCE	
Comprehensive instrumentation and surveillance suite, typically comprising:	

Cameras  
Lamps  
Pan & tilt  
Sonar

POWER AND CONTROL	
Power & control system	Vessel integrated or housed in A60 containers
Umbilical system	Non-buoyed umbilical cable on a rendering winch

LARS	
A-frame handling system	Wide-angle, 35te SWL. Allows handling and towing of plough on a single wire
Tow winch HPU	80te render, 35te lift Deck mounted

TYPICAL OPTIONS	
Front jet tool	For use in specific soil conditions
Aggressive share tip	For operations in harder ground
Buoyed umbilical cable	Subject to water depth
Plough Beach Ops Kit	Radio telemetry, stunt control box, aft pull beach skid Beach power required 50kW

AFTER SALES SERVICE & SUPPORT	
Operational personnel	
Technical support	
Service agreements	
Spares packages and management options	

\* Subject to umbilical selection

\*\*All dimensions are approximate and subject to final design