

LIGHTWEIGHT CABLE PLOUGH

STANDARD PLOUGH

SMD's standard plough is a lightweight, lower cost, high quality option for cable ploughing for use in most soils. It has the added benefit of a secondary share for effective repeater burial. The standard plough can create a trench up to 1.5 metres deep in water depths up to 2000 metres. SMD can supply the tow winch, umbilical system and launch and recovery equipment associated with the standard plough for a turnkey cable burial solution.

FEATURES

- 50te maximum pull capacity
- True zero to 1.5 metre maximum trench depth capability
 - Repeater burial to 1.5 m with secondary share
- Cable and flexible joint burial up to 380 mm, with a minimum bend radius of 1.5m
- 2000 metres maximum water depth
- Hydraulic power steering
- SMD DVECS™ control system
- Turnkey system inclusive of umbilical system, LARS and tow winch



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.

SYSTEM SPECIFICATIONS

GENERAL

Depth rating.....	2000msw
Dimensions	
Length	9.0m
Width	4.6m
Height	4.0m
Weight in air (skids)	15.0te
Submerged Weight	13.0te
Maximum tow load.....	50te

PERFORMANCE

Trench depth	1.5m
Maximum cable diameter	90mm
Minimum cable bend radius	1.5m
Maximum repeater diameter	380mm
Steering.....	±12°

MECHANICAL

Construction	Steel Chassis
Wear parts	Replaceable wear resistant steel
Other	Stainless steel fittings and housings

TRENCHING SYSTEM

Configuration	Parallel sided blade with aggressive point, sharp leading edge and side ramp
Cutting disc	Freely rotating cutting disc to define the inclined face of a trapezium of soil lifted to bury the cable

HYDRAULIC SYSTEM

Installed power	Auxiliary HPU
Cylinders.....	Quick release couplings for auxiliary HPU
Valves.....	Dual over-centre valves
Valve packs	Stainless steel, oil-filled & pressure compensated
Manifolds, pipes & fittings	Stainless steel
Hoses	Multi-spiral flexible

SUBSEA ELECTRONICS

Electronics pod	One atmosphere pressure vessel
Depth rating.....	2,000m
Test pressure	1.25 x working pressure
Data transmission	Fibre optic

SUBSEA SURVEILLANCE

Cameras	3 x Near-SIT camera Kongsberg Simrad OE15-100c/OE15-101c
Lamps	5 x 24V Bowtech, LED-3200
Pan and tilt	2 x pan and tilt units (24V)
OA Sonar	Tritech Super SeaKing

SUBSEA INSTRUMENTATION

Heading	CDL Togs-Nav Gyro
Altitude	Echo sounder
Hydrophone	Benthos

OTHER EQUIPMENT

Control System	SMD DVECS™ located in either ISO container or control room
Power system	Container or control room
Umbilical system	5,300m buoyant umbilical on a 3te SWL winch
Winch HPU	Deck mounted
Spares package	Optional packages available

OPTIONS

A-Frame handling system	SMD 2 cylinder wide-angled 35te SWL, sea state 5 Upgrade to deck HPU
Tow winch.....	Various options available
Plough beach ops kit	Radio Telemetry Stunt control box Aft beach pull skid (Beach power required)