



HEAVY DUTY PLOUGH HD3-200/300



ENGINEERING
EXCELLENCE
UNDERWATER

HEAVY DUTY PLOUGH HD3-200/300

The leading plough in the power market with unparalleled track record. Steeped in expertise, the HD range benefits from both operational and manufacturing lessons learned by the MD plough range, which is responsible for protection of 90% of the world's subsea telecoms cables.

The result is an HD range which provides a reliable, high performance trenching solution for larger diameter cables and flexible umbilicals.

The range is designed to minimise pull force requirements and provide effective trenching capability up to 3.3m depth, although other depth options are available on request.

Coupled with a tow winch, umbilical and LARS system, SMD are able to supply a turnkey flexible burial solution.

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

- Capable of simultaneous and post lay burial to reduce operational time
- Ultimate safety for personnel and product afforded by diverless subsea product loading & unloading with emergency product unload
- 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 and jetting

CONTACT US

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HEAVY DUTY PLOUGH HD3-200/300

SYSTEM SPECIFICATIONS

GENERAL	200	300
Depth rating	0-500msw	0-500msw
Dimensions*		
Length	13.5m	15.0m
Width	6.3m	6.5m
Height	6.6m	6.6m
Weight in air	35Te	45Te
Submerged Weight	30Te	39Te
Max tow load	150Te	150Te

PERFORMANCE

Trench depth	0-3.3m	0-3.3m
Maximum** cable diameter **	30-200mm	30-300mm
Minimum cable bend radius	4.0m	5.0m

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
Jetting	up to 265kW

HYDRAULIC SYSTEM

Installed power	15kW HPU
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SUBSEA ELECTRONICS

Electronics pod	One atmosphere pressure vessel
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SUBSEA SURVEILLANCE

Comprehensive instrumentation and surveillance suite, typically comprising:

- Cameras
- Lamps
- Pan & tilt
- Sonar

DIVERLESS SUBSEA UNLOADING

Cable unloading	Remote subsea manipulator (aft mounted) up to 5Te
	2 x cylinder actuated bellmouth tines
	Tipping trough
	High lift slewing depressor
	Cylinder actuated cable feelers

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, 50Te SWL. Allows handling and towing of plough on a single wire
Tow winch HPU	150Te render, 50Te lift Deck mounted

TYPICAL OPTIONS

Aggressive share tip	For operations in harder ground
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

*All dimensions are approximate and subject to final design.

** Other options are available on request.

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