



NEW HD3 PLOUGH WITH TOP LOADING



ENGINEERING
EXCELLENCE
UNDERWATER

NEW HD3 PLOUGH

The New HD3 Plough brings a host of added benefits to our proven HD3 design, without sacrificing existing capabilities.

The new simple design provides our high performance trenching solution for larger, heavier, lead lined cables, flexible umbilicals and cable bundles.

The updated design equips the plough with top loading capability for safer cable handling, alongside bottom loading for post lay burial.

Our proven plough design minimises pull force requirements and provides effective trenching capability. The subsea loading system allows post lay burial, while new drawbar design enables simultaneous burial with no cablehandling.

FEATURES

- Top loading for ultimate cable integrity in simultaneous lay and burial operations
- Bottom loading capability for post lay burial capability
- Our safest handling solution for cable bundles
- Option to add additional jetting for improved progress rates in sands
- Simple, proven design
- Configurable to suit operational requirements

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.

CONTACT US

SMD

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NEW HD3 PLOUGH

SYSTEM SPECIFICATIONS

GENERAL

| | |
|-----------------------|-----------|
| Depth rating | 1500msw |
| Dimensions | |
| Length | 14.5m |
| Width | 6.5m |
| Height | 5.0m |
| Weight in air (skids) | 43Te/45Te |
| Submerged Weight | 38Te/41Te |
| Max tow load | 150Te |

PERFORMANCE

| | |
|------------------------|--|
| Trench depth | 0-3.3m with 4.0m MBR 0-3m with 5.0m MBR |
| Maximum cable diameter | 30mm – 300mm |
| Steering | ±12 degrees |
| Installed power | 15-50kW HPU |

MECHANICAL

| | |
|--------------|---------------------------------------|
| Construction | Steel chassis |
| Wear parts | Replaceable wear resistant steel |
| Other | Stainless steel fittings and housings |

TRENCHING SYSTEM

| | |
|-----------------------|--|
| Configuration | Parallel sided blade with 20 degree rake |
| Jetting | Up to 2 x 265-530kW |
| Water supply (approx) | 800m ³ /1600m ³ @ 6bar |

SUBSEA ELECTRONICS

| | |
|-----------------|--------------------------------|
| Electronics pod | One atmosphere pressure vessel |
|-----------------|--------------------------------|

SUBSEA SURVEILLANCE

Comprehensive instrumentation and surveillance suite, typically comprising:

- Cameras
- Lamps
- Pan and tilt
- Sonar

DIVERLESS SUBSEA CABLE LOADING

| | |
|---|---|
| Top loading for simultaneous lay and burial | Patent pending 3 position draw bar system Lowering into open share and bellmouth from above Unloading with lift out of open bellmouth and share |
| Bottom loading for post-lay burial | Bellmouth tines and stepping stabiliser and cable crane lift assist Unload with opening bellmouth and tipping trough |

POWER & CONTROL

| | |
|------------------------|---|
| Power & control system | Vessel integrated or ISO A60 containers |
|------------------------|---|

LARS

| | |
|------------------|---------------------------------------|
| A-Frame | |
| Handling system | 50-60te SWL wide angle |
| Umbilical system | Armoured umbilical on a 5te SWL winch |
| HPU | Deck mounted |

OPTIONS

| | |
|----------------------|---|
| Tow winch | Various options available |
| Plough beach ops kit | Radio Telemetry Stunt control box Aft beach pull skid (Beach power required) |

AFTER SALES SERVICE

Operational personnel
Technical support
Service agreements
Spares packages

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