

EQUIPMENT SHEET

HD3 PLOUGH

A HIGH PERFORMANCE TRENCHING SOLUTION FOR LARGE DIAMETER SUBSEA CABLES



FEATURES

The Heavy Duty HD3 flexibles plough provides a high performance trenching solution for subsea power cables and flexible umbilicals. The plough is designed to minimise pull force requirements and to provide an effective trenching capability up to 2.75 m trench depth.

MAIN DATA

Depth rating	500 m
Length	16.0 m
Width	6.5 m
Height	7.0 m
Weight in air	54 t
Submerged weight	46.5 t
Max. tow load	120 t nominal, 150 t peak load

PERFORMANCE

Trench depth	Variable up to 2.75 m
Cable diameter	30 to 300 mm
Min. cable bend radius	3.6 m (bellmouth)
Steering	+/- 12 degrees

MECHANICAL

Construction	High-strength steel chassis
Wear parts	Replaceable wear-resistant steel

JETTING SYSTEM (OPTIONAL)

Configuration	Plough share and knife top jetting
Power	1 x 265 kW Frequency driven
Water supply	1 x 800 m ³ /hr at 6 bar

DIVERLESS SUBSEA UNLOADING

ROV intervention panel	Emergency unload
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HYDRAULIC SYSTEM

Installed power	15 kW HPU for auxiliaries
Cylinders	Smart heavy duty marine type

SUBSEA ELECTRONICS

Electronic pod	1 atmosphere pressure vessel
Depth rating	500 m
Test pressure	1.25 x working pressure
Data transmission	Fibre optic multiplexer

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SUBSEA SURVEILLANCE

Cameras	3 x (HDTV optional)
Lamps	Up to 6 x 250V dimmable LED subsea lamps
Pan and tilt	3 x P&T units
OA sonar	Kongsberg/Tritech

SUBSEA INSTRUMENTATION

Positioning, heading, roll & pitch	iXblue Rovins
Altitude	2 x Tritech Altimeter
Trench & product sensing	Profiling sonars Cable feeler in bellmouth Cable detection sensor in depressor MBES (optional)
Load	Shear pin loaded cell
Plough geometry	In-cylinder transducer
Trench depth	3 Options for burial depth calculation

OTHER EQUIPMENT CONTAINER SPREAD

Control power system	1 x 20 ft Control container + power distribution 1 x 20 ft Workshop 1 x 20 ft Half height open top Stores container 1 x 10 ft Stores container 1 x 10 ft Frequency drive unit
Umbilical system	1,000 m umbilical & 5 t rendering winch
Deck HPU	For maintenance purposes
Plough beach kit	Aft pull beach skid