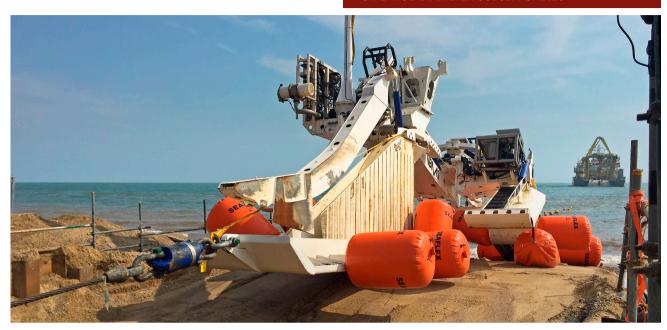


EQUIPMENT SHEET

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 m³/hr at 6 bar

Water supply 1 x 800 m³/hr at 6 bar DIVERLESS SUBSEA UNLOADING

ROV intervention panel Emergency unload

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 Deck HPU	1,000 m umbilical & 5 t rendering winch For maintenance purposes	
Plough beach kit	Aft pull beach skid	

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