

INTER-ARRAY CABLE PLOUGH WITH DIVERLESS SUBSEA LOAD & UNLOAD

Based on the proven SMD plough technology, the HD200 Inter Array plough provides a high performance trenching solution for large diameter power cables up to 200mm. Using patented technology, the plough is designed to minimise pull force requirements and provide effective trenching capability up to 2.4m depth. The diverless loading and unloading system allows post lay burial in deepwater. Coupled with a tow winch, umbilical and LARS system, SMD are able to supply a turnkey flexibles burial solution.

FEATURES

- 150Te bollard pull (30-38Te plough)
- True 0 to 2.4m max trench depth capability with 3.0m MBR cable
- Cable and flexible joint burial up to 200mm diameter
- Diverless subsea loading & unloading
- Jetting system for enhanced burial in sands up to 530kW



SMD CUSTOMISATION SERVICE

SMD understand that each customer is different and therefore that customers have different needs from their systems. In order to meet customer specific requirements SMD can customise vehicles using a range of standard components to suit preference and performance requirements.

HD/200

GENERAL	
Depth rating	500msw
Dimensions	
Length	13.3m
Width	6.0m
Height	6.0m
Weight in air (STD)	36Te
Submerged weight	30Te
Max tow load	150Te
PERFORMANCE	
Trench depth	Variable 0 to 2.4m
Max cable diameter	30 to 200mm
Min cable bend radius	3m
Steering	+/- 12 degrees
MECHANICAL	
Construction	High strength steel chassis
Wear parts	Replaceable wear-resistant steel
Other	Stainless steel fittings & housings
TRENCHING SYSTEM	
Configuration	Passive narrow parallel sided share with repeater burial flaps to temporarily widen trench
JETTING SYSTEM (OPTIONAL)	
Configuration	Plough share and knife tip jetting
Power	2 x 265kW
Water supply	2 x 800m ³ /hr
DIVERLESS SUBSEA LOADING/UNLOADING	
Crane	12tm knuckle boom
Slewing depressor	To assist cable into share
Front bellmouth tines	Load cable into front bellmouth
Jetting thruster	To assist landing over cable
Tipping trough	To assist with unloading
ROV intervention panel	Emergency unload
HYDRAULIC SYSTEM	
Installed power	15kW
Cylinders	Smart heavy duty marine
Valves	Directional & counterbalance
Valve packs	Stainless steel, oil compensated
Manifolds, pipes & fittings	Stainless steel
Hoses	Multi-spiral flexible hoses

SUBSEA ELECTRONICS	
Electronics pod	1 atmosphere pressure vessel
Depth rating	500m
Test pressure	1.25 x working pressure
Data transmission	Fibre optic multi-plexer
SUBSEA SURVEILLANCE	
Cameras	x 3 (HDTV optional)
Lamps	Up to 6 x 250V Dimmable LED subsea lamps
Pan and tilt	3 x 24V P&T units
OA Sonar	Kongsberg/Tritech
SUBSEA INSTRUMENTATION	
Heading	Gyro
Altitude	Echosounder
Trench & product sensing	Profiling sonars
Pitch and roll	Inclinometer
Load	Shear pin loaded cell
Displacement	In-cylinder transducer
Distance	Rotary encoder
Pressure transducers	Hydraulic system pressure Water jet pressure
Hydrophone	Benthos
Wear indicator	Share point
OTHER EQUIPMENT	
Control & power system	20ft ISO container SMD DVECS II or DVECS S system
Umbilical system	2000m umbilical & 5Te rendering winch
Winch HPU	37kW deck mounted
OPTIONS	
A-frame	45Te SWL sea state 5 wide angle
Deck HPU	Upgrade available
Tow winch	Options available
Plough beach ops kit	Radio telemetry Stunt control box Aft pull beach skid (beach power required)