

## LOW RISK POWER CABLE INSTALLATION AND TRENCHING

### 150 TONNE MULTI-FUNCTION PRE-LAY PLOUGH

SMD's newest innovation is the Multi-Function Pre-Lay plough which can be supplied in many configurations for boulder clearing, trenching and/or backfill. Just one plough can be set up to carry out any combination of these processes which makes it economical in both cost and time. With its maximum bollard pull of 150 tonnes combined with the optional jetting capability the lay process time can be further decreased.

### FEATURES

- 150 tonne continuous tow load
- 200 tonne peak tow load
- 1.7m multi-depth trench capability
- Boulder clearing mouldboards
- Ability to clear 1200mm boulders
- 300m maximum water depth as standard
- Optional backfill and ripper capability
- Optional jetting
- Highly manoeuvrable steering angle
- Detachable lift point
- DVECS™ control platform
- Comprehensive instrumentation and surveillance



### 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.

## SYSTEM SPECIFICATIONS

### GENERAL

Depth rating.....	300m
Dimensions	
Length .....	15.4m
Width .....	9.6m
Height .....	7.0m
Weight in air .....	50te
Maximum tow load .....	150te

### TRENCHING

Share .....	'V-shaped' upper share .....Vertical lower section creating a 'Y-shaped' trench
Fronts skids.....	Depth control
Trench floor width.....	500mm

### BOULDER CLEARING / GRAPNEL RUN (OPTIONAL)

Boulder clearing blades .....	Retractable extensions ..... angled blades
Fronts skids.....	Digging dozer face
Deployed share.....	Side load stability and grapnel function

### BACKFILL SYSTEM (OPTIONAL)

Backfill blades .....	Symmetrical angled blades
Fronts skids.....	Follow trench
Rear skids.....	Provide support and lateral and ..... roll stability

### PERFORMANCE

Maximum trench depth .....	1700mm
Ground capability .....	600kPa
Steering .....	±15 degrees

### MECHANICAL

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

### HYDRAULIC SYSTEM

Installed power .....	75 to 150kW
Cylinders.....	Smart heavy duty marine type
Valves .....	Directional and counterbalance
Valve packs .....	Oil filled, pressure compensated
Manifolds, pipes and fittings.....	Stainless steel
Hoses.....	Multi-spiral flexible hoses
ROV intervention .....	Hot stab capability

### SUBSEA ELECTRONICS

Electronics pod .....	One atmosphere pressure vessel
Depth rating .....	300m
Test pressure.....	1.25 x working pressure

### SUBSEA SURVEILLANCE

Cameras .....	3x cameras
Pan and tilt .....	1 x P&T units
OA sonar .....	Tritech / Kongsberg
Profiling sonar .....	Tritech/Kongsberg/Multibeam

### OTHER EQUIPMENT

Scissor Frame .....	50te SWL sea state 5
Control system .....	in 20ft ISO A60 container
Power system .....	Housed within 10ft ISO A60 container
Umbilical system .....	typically 1200m buoyant umbilical ..... and 3te SWL winch
Winch HPU .....	typically 22kW deck mounted