

LATEST IN MULTI-PASS TECHNOLOGY PIPELINE BACKFILL PLOUGH

The backfill plough (BP) is designed for compatibility with the VMP trenching plough to cover rigid pipes or flexible umbilicals in the oil and gas industry. SMD has supplied pipeline ploughs for over 35 years to various customers and projects. The BP incorporates design features to allow it to operate on very soft soils without significant sinkage including large support skids and minimum weight.

FEATURES

- 150 tonne maximum tow load
- 2.0m maximum trench depth capability
- Hydraulic power steering
- 1000m maximum water depth
- Rear driven compacting roller
- Remotely driven mouldboard depth control
- Optional front end loading
- Detachable lift point
- DVECS™ control platform
- Hydraulic powered steering
- 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..... 1000msw
 Dimensions:
 Length 24m
 Width 24m
 Height 8m
 Weight in air (skids) 110 / 150te
 Submerged weight 100 / 140te
 Maximum tow load..... 150 / 200te

PERFORMANCE

Soft ground capability..... 5kPa at full trench
 Ground pressure..... 40kPa
 Steering ±7 degrees

MECHANICAL

Construction High strength steel chassis
 Wear parts Replaceable wear resistant steel
 Other Stainless steel fittings and housings

BACKFILL SYSTEM

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

HYDRAULIC SYSTEM

Installed power 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

COMPACTION ROLLER

Trailing roller to compact soil in centre of trench
 To improve backfill quality and
 prevent pipe floating
 Roller dimensions 1.75m diameter x 3m width

SUBSEA ELECTRONICS

Electronics pod One atmosphere pressure vessel
 Depth rating..... 1000m
 Test pressure 1.25 x working pressure

SUBSEA SURVEILLANCE

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

OTHER EQUIPMENT

Scissor Frame 200te SWL sea state 5
 Control system..... in 20ft ISO A60 container
 Power systemHoused within 10ft ISO A60 container
 Umbilical system..... typically 4000m buoyant umbilical
 and 3te SWL winch
 Winch HPU..... typically 22kW deck mounted