LATEST IN MULTI-PASS TECHNOLOGY

VARIABLE MULTI-PASS PLOUGH

Building on SMD's reputation for the continuous development of their products, the VMP introduces further advances on the next generation AMP pipe plough by offering remotely variable multi-pass capability. This allows the operator to remotely adjust the depth during trenching. This, along with the advances introduced earlier on the AMP, Hi-Tow points and the active share track make the VMP the most advanced pipe trenching technology in the world. As per the AMP, 500te trenching capability is available from only 350te vessel pull.

FEATURES

- **350 tonne maximum bollard pull capability**
- **2.5m maximum trench depth capability with multi-pass**
- **Hydraulic power steering**
- **1000m maximum water depth**
- **Share jetting system to reduce tow force requirements**
- **1460mm maximum product diameter**
- **2 x 75te pipe handling capacity**
- **Large pitch capability**
- **Hi-Tow points reduce tow force requirements**
- **Active share track reduces tow force requirements**
- **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 21.4m
- Width 11.75m
- Height 9.65m

Weight in air (skids) 180te
Submerged weight 155te
Max tow load 350te

PERFORMANCE

Trench depth ..... First pass – 2.0m
..... Second pass – 2.5m
Maximum product diameter 1460mm
Soft ground capability ..... 5kPa at full trench
Steering ..... ±8 degrees

MECHANICAL

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

TRENCHING SYSTEM

Main share ..... Passive blades
Fixed mouldboards ..... 25 degree slope spoil heaps
..... either side of the trench
Share track ..... Reduces tow forces
..... up to 80te down force
..... up to 1400m/hr track speed
Optional jetting 150kW
..... Plough share jetting
..... Upgrade to umbilical and winch
..... Upgrade to power and control system

MULTI-PASS SYSTEM

Configuration ..... Hydraulically actuated
..... Variable height/angle mouldboards
..... Clear spoil for skid path on first pass
..... allowing second pass capability
Multi-pass range ..... 1.35 to 2.5m

BUOYANCY SYSTEM

Configuration ..... 2 off steel, open bottomed,
..... removable tanks, air fed from surface
Net buoyancy ..... 50te each (100te combined)
Tank air weight ..... 6te each
Valves ..... Hydraulically actuated vent valves
..... Vacuum breaker valve

PIPE HANDLING

Configuration ..... Front and rear roller cradles with
..... pipe lifters for diverless post lay
..... loading and unloading
Pipe outside diameter (per cradle)
- Light duty ..... 75 – 600 mm single roller
- Heavy duty ..... 600-1420 mm V-roller

Pipe roller load (per cradle)
- Light duty 30te
- Heavy duty 75te

Pipe lifters (each) 75te
..... Maximum 1.7m down reach into trench

HYDRAULIC SYSTEM

Installed power 150kW
Cylinders ..... Smart heavy duty marine type
Valves ..... Directional and counterbalance
Valve packs ..... Stainless steel, oil 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 1000m
Test pressure ..... 1.25 x working pressure

SUBSEA SURVEILLANCE

Cameras ..... Up to eight cameras (HDTV optional)
Lamps ..... up to 12 x 250W
..... dimmable LED subsea lamps
Pan and tilt ..... Up to six 24V P&T units
OA sonar ..... Tritech / Kongsberg
Profiling sonar ..... Tritech/Kongsberg/Multibeam
Acoustic positioning ..... to suit vessel
Gyro (optional) ..... Fibre optic

OTHER EQUIPMENT

Docking system ..... 200te SWL sea state 5
..... Docking frame and bullet
Control system ..... in 20ft ISO A60 container
Power system ..... Housed within control system
Umbilical system ..... typically 4000 buoyant umbilical
..... and 3te SWL winch
Winch HPU ..... typically 22kW deck mounted

UK
T +44 191 234 2222
E INFO@SMD.CO.UK
WWW.SMD.CO.UK

SINGAPORE
T +65 6829 2164
E INFO@SMD.SG
WWW.SMD.SG

HOUSTON
T +1 713 338 3700
E INFO@SMD-US.COM
WWW.SMD-US.COM

BRAZIL
E BRAZIL@SMD-US.COM