

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.

FEATURES

- 250 tonne maximum bollard pull capability
- 2m 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	18.5m
Width	9.8m
Height	8.5m
Weight in air (skids)	120te
Submerged weight	100te
Max tow load.....	250te

PERFORMANCE

Trench depth	First pass – 1.5m
.....	Second pass – 2.0m
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

BUOYANCY SYSTEM (OPTIONAL)

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
.....	dimnable 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