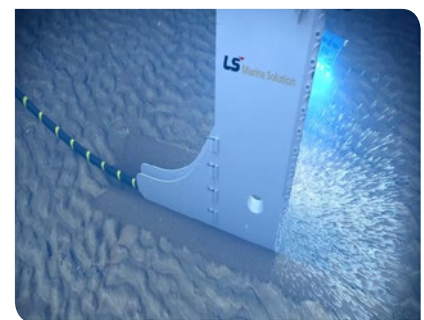
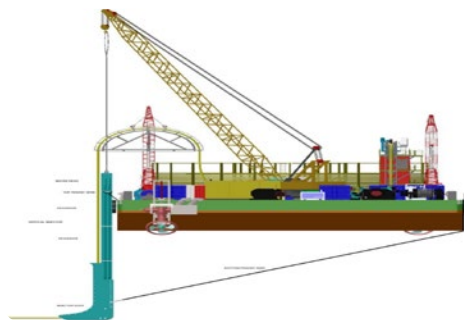
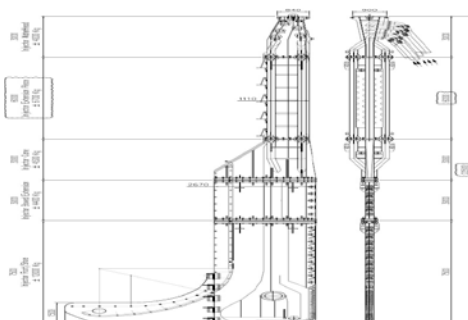


Simultaneously Lay & Bury submarine cable up to 10m

Vertical Injector



The Vertical Injector is a highly modular and adjustable vessel or barge mounted sub-sea burial tool, capable of burial depths up to 10 meters under the seabed.

It can operate in water depths up to 40 meters using high pressurized seawater to trench through overburden, sand & soft to medium clay while simultaneously laying the fibre optic cable, power cable or flexible pipelines. The proposed MBR is well in excess of the required 2.5M MBR of the cable to provide a safe operation and future proofs the system for large projects in the future.

Simultaneously Lay & Bury submarine cable up to 10m

Vertical Injector

General Characteristics

Max Water Depth	40m
Internal Clear Width (Cable Corridor)	230mm
Trench Depth	Up to 10m below seabed
Soil condition	Sand, Soft to Medium Clay, Overburden
Extension Lengths	6m or 3m / unit
Depressor MBR	4m
Product OD	10~220mm
Working pressure	12bar
Max Pressure	18bar
Max Flowrate	3000m ³ /hr
Principle	High Pressure Water Jetting
Anticipated Water Depth	20m / 35m
Anticipated Overall Length	43.5 / 53.5m
Preliminary Weight (Max)	53.0MT / 61.0MT
Pressure Testing Certificate	16Bar / 30mins
Tow Force	20MT

Control System

Header section	4.0MT / 3m
Extension Piece	6.7MT / 6m
Adapter Section	4.5MT / 3m
Shoe Extension Section	4.4MT / 3m
Additional Shoe Extension Section	4.4MT / 3m
Injector Shoe Section	12.5MT / 7.5m

Jetting Pump Specifications

Capacity	650-800m ³ /hr
Speed	1600~1900rpm
Power Absorbed	320~420kw (430~560BHP)
Working Pressure/ Max Pressure	12bar /18bar
Engine Power	400~600HP at 1500~1900rpm
Shaft	Stainless Steel
Type	Horizontal Split Casing
Impeller	Marine Al-Bronze
Water Discharge	8" Flanged Joints
Coupling	Flexible
Seawater Manifold	4 x 8" Inlets ; 4 x 10" Outlets

Pump Performance Curves

