

HYDROFLOW

BURIAL TOOL



DESCRIPTION

The Hydroflow is a machine designed to lay and bury cables in a simultaneous mode. The progress forward is achieved by a combination of pulling forces by the cable laying vessel (by means of a wire attached to the machine) and fluidization of the seabed materials for the passage of the “stinger”, utilizing surface supplied high pressure water, distributed through a series of nozzles located on the stinger face. In this way the movement of the Hydroflow is allowed with relative low and controlled towing forces.

The cables are regularly fed from the laying vessel to the funnel located on the upper side of the stinger. The cable loading is realized by means of a hydraulic diverless operated opening system of the top side of the stinger, allowing the cable to be laid into the stinger from the support vessel. A safety locking system will prevent accidental opening of the top side of the stinger and guarantee stiffness of the structure during launch and recovery.

TECHNICAL SPECIFICATIONS

KEY FEATURES

- 3M cable MBR
- 2 m to 6 m cable burial depth capability (configurable)
- 30 tons bollard pull
- Diverless subsea cable loading and unloading
- Operating depth up to 50m with standard features
- Emergency cable unloading system, ROV and surface operated
- Comprehensive instrumentation and surveillance system, including emergency backup system
- Launch and Recovery System
- Modular frame for road transportation using regular trucks

All performance figures quoted are nominal, actual performance is dependent on environmental conditions prevailing at the time of operations.

GENERAL

Depth Rating	50m
Dimensions (LxWxH)	12.2 m x 6 m x 4.3 m
Weight in air	32 tons
Submerged weight	30 tons

HYDRAULIC SYSTEMS CONFIGURATION

Surface supplied hydraulic power fed by marine grade synthetic reinforced hoses

Marine grade hydraulic cylinders with stainless steel rod and dedicated lock valve to prevent accidental opening

Subsea hydraulic pod with subsea hydraulic pod

ROV intervention panel – emergency unloading

SUBSEA JETTING SYSTEM

Jetting Power Surface water supply 800m³/h with pressure of 12 bar at stinger

Surface Power Surface jetting system power up to 950 kW

SUBSEA ELECTRONICS

Cameras	Multiple subsea b/w low light cameras
Lamps	Multiple and dimmable led
Sensors	Jet pressure, water depth and hydraulic system pressure, attitude sensors (pitch, roll and heading), multiple stinger angle, proximity sensors for stinger opening and closing crosscheck.
Sonar	Collision avoidance sonar, altimeter and scanning profiler