

ASSOJET IV

The AssoJet IV trenching system is the latest addition to Assodivers Soft Soil Trencher Fleet. Utilizing its high output power of 900kW, the AssoTrencher IV is able to perform trenching operations on a variety of products including power cables, umbilicals and pipelines in varying soil conditions.

The control on flow and pressure to the forward, undercut and backflush jets allows adjustable jetting performance of the tool according to various seabed conditions, without having to recover the vehicle as soil conditions change.

The AssoJet IV system consists of the trenching ROV, a self-contained control cabin, transformer cabin, umbilical winch, and a dedicated Launch and Recovery System (LARS). The LARS is designed to operate safely in weather conditions of up to Sea State 6.

AssoJet IV, as the entire "Assotrencher" family, utilizes high end technology to provide advanced telemetry and control over vehicle's operation. Moreover, integrated video and data logging systems allow real time evaluation as well as post processing capabilities.



MODULAR WORK CLASS ROV/ JETTING VEHICLE

AssoJet IV holds a successful record of post-lay trenching of export and infield Wind Farm power cables as well as trenching operations on 12" and 14" pipelines with 2" piggyback lines attached.



Performance Specifications

Length:	5.0 m
Breadth:	4.20 m
Height:	3.0 m
Weight:	13,000 Te in Air
Depth rating:	1000m
Trenching Depth:	500mm-2000mm
Water Pump Performance:	6 - 13 bar
Thrust Fw / Vert:	1500Kg

Structure & Buoyancy

The versatile design allows the complete AssoJet IV spread to be road transportable and easily mobilised/demobilised between Assodivers' vessels or suitable vessels of opportunity. Its aluminium frame combined to the stainless steel lifting structure consist a lightweight yet durable framework, upon which vehicle's components are integrated. With a total net buoyancy of 5908 kg, the AssoJet IV is neutral floating in seawater.

Control Cabin

Similarly to other vehicles from the Assodivers Trenchers fleet, the control cabin is accommodated into a certified offshore 20ft container. The generic Control Cabin incorporates all necessary controls, monitors (video and VGA), recording devices and HV/LV arrangements are installed in an ergonomically structured manner, while uplink outputs are available for the connection to remote viewing stations (i.e. Vessel's bridge, Client Room etc). Network and communication uplinks are also arranged to collect, display and record data from supporting systems onboard the vessel.

Back-up systems are also installed for handling emergency situations.

The AssoJet IV vehicle consists of the following main systems:

- Frame and Lifting Structure
- Buoyancy Blocks
- Thrusters
- HPU & Hydraulic Distribution System
- Hydraulic Reservoir & Valve Packs
- Water Pumps & Distribution System
- Adjustable Swords
- Electrical Power-distribution
- Cameras, Lights & Telemetry Sensors
- Control System
- Variable sword length
- 45° Degree of Sword Lifting
- 650 mm vertical sword lift
- Variable trench width (100mm–750mm)



The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement. Specifications are subject to change without any prior notification.

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Restrictions: When sword length is more than 3300 mm vertical lift max. 350 mm.

