

AssoTrencher IV Mk9

Mechanical Trencher

'AssoTrencher IV' sits at the top of trenchers range and is currently undergoing its ninth upgrade. Its long track record has proven its worth as durable, efficient and long lasting hard soil and rock trenching machine.

The AssoTrencher IV 9th upgrade is designed to cover the need for Post Lay Burial of flexible products in non-jettable seabed with increased production rates and assurance on the burial depth of the cable with the use of a powerful eductor suction system, or optionally a depressor system.

The design of the vehicle has incorporated all the advantages found in the previous arrangements of the Assotrencher IV and in practice combines the ability to load heavy products (incl. bundled) with small to no slack in bottom-loading configuration, ensures trench cleaning with the use of its eductor suction system keeping this way the effectiveness of achieving the burial depth in hard/mixed soil conditions.

In addition and with the use of the depressor option, the vehicle ensures the trench geometry by using similar characteristics to the design of a plough, ensuring the burial depth in mixed soil conditions by using both trenching and jetting technologies.



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Specifications

Length	10m
Breadth	5.2m
Height	3.2m
Weight	40Te
Depth rating	500 m
Max. Soil Shear Strength	3MPa
Max. Seafloor Gradient	±15 deg (pitch & roll)
Max. Product Diameter	300mm
Max. Trenching Depth	2.3m
Total Power	1,300 kW
Max Sea State	Hs 3.0m

Key Features

- 1.3 MW of installed power
- 2.3m trench depth capability
- Wide variety of accessories
- In-house design
- Fast trenching rates
- Dead-sub automatic release of product
- Power Management System for optimal performance
- Intelligent VFD controls through in house PDU
- Post Lay Burial with minimal slack requirement of laid product
- AHC launching capability
- Assured cable depth in various soil conditions with the use of eductor or depressor system
- Combination of jetting/trenching/ploughing techniques
- Wide soil range capability

Performance

- 2x260kW/3.3kV electric motors driving the trenching chain tool
- 2x260kW/3.3kV electric motors to drive the two HP water pumps
- 1x260kW/3.3kV motor to drive the hydraulic pumps for the thrusters, the vehicle tracks and the auxiliary hydraulic circuits;



Trenching System

- 600mm-wide cutting chain fitted in the front of the vehicle
- Bottom loading system with monitoring to allow for safe handling of product
- Eductor suction system fitted on the back of the vehicle to remove backfill material
- (Option) Depressor system fitted with autonomous movement synched by trenching tool and fitted with jetting nozzles to remove backfill material
- (Option) Cutting Wheel for up to 1.5m trench depth

Sensor Equipment

Up to 8x low light cameras

Up to 12x LED high intensity fully dimmable lights

Up to 4x electric pan/tilt units

Up to 4x imaging or profiling sonar

1x Blueview 2D Multi-beam sonar

1x Digiquartz depth sensor

1x CSL TOGS/NAV FOG or Octans

Cable Tracker TSS 350/440 available

HCV 100 cable cutter available

Vehicle Features

In house design trenching tool for max efficiency

In house design hydraulic system

In house design of water pumps & distribution system

In house design of electrical power-distribution

In house design of cameras, lights & telemetry architecture

In house design of control system

Deep burial at hard/mixed soil conditions

Low compression on seabed surface

Supported by the new ASSO design PDUs to allow frequency control on all subsea motors and power management.

Dead-sub auto release system



Contact Information

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Membership - Accreditations



Disclaimer

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.