

SUBTRENCH TWO

CABLE, UMBILICAL & FLEXIBLE TRENCHING MACHINE



With 3.3m Chain Cutter/ Depressor.

Principal Data

- Capability : Cables, Umbilicals, Flexibles to 250 - 300mm OD & 3.3m bend radius.
- Soils : Silts/ sands through clays to soft to hard rock.
- Trench Depths : To 3.3m plus.
- Dimensions : Carriage: 6.5m (L) x 5.5m (W) x 3.3m (H).
- Weights : 27 to 42 T (Air); 22 to 37 T (Submerged).
- Tractive Effort : Up to 8 tonnes depending upon seabed conditions.
- Ground Pressure : Between 13 to 20 kPa depending upon tool used.
- Total Power : 1360 kW, 3300V.
- Speed range : Travelling: generally between 0 to 3 km/hr
: Trenching: generally between 1 to 20 m/min (60 to 1,200 m/hr)
and depending upon the soils, trench depth and tool used.

Subtrench Group

Pipelines, Cables, Umbilicals & Flexibles:

**Delivering Ground Breaking Underwater Trenching
Technology & Services Worldwide**

- Any Soil
- Any Depth
- Any Where



Subtrench Group

Maximising Reliability - Minimising Risk Safety Underpins Everything We Do



With 1.3m Jet Sword



With 3.3m Jet Sword



Control Cabin

Specification subject to change without notice

Main Features

- Capable of progressively trenching up to 3.3 m trench depths, depending on the tool used.
- Suitable for soils ranging from silts/sands through clays to soft to hard rock with interchangeable jet sword, chain cutter and wheel cutter tools.
- Single electric supply/ fibre optic control umbilical allows operations up to 500 plus meters away.
- Operational from the beach above the water line to 120 meter water depths.
- Simultaneous lay and trench and/or post lay capability and remedial trenching.
- Remote cable, umbilical & flexible pick up.
- Hydraulically track driven to provide a greater operating range whilst being able to maintain a consistent trenching speed appropriate for the particular soil(s) being trenched. Accurate steering and alignment during operations. An optional onboard crane arm and docking station can be used to make the machine diverless.
- Very low ground bearing pressures ranging from 13 to 20 kPa depending upon which tool is used.
- Very extensive monitoring, survey and control system. The burial depth is continually monitored and controlled in real time during the trenching operation to ensure burial is achieved in a single pass.
- Suitable for use in harsh and/or sensitive marine and inland water environments.
- A comprehensive set of spares are carried in the dedicated workshop container.

Interchangeable Trenching Tools

- 3.3m and 1.3m deep chain cutter/ depressor booms with water jets which can trench progressively to the required trench depth.

- 3.3m and 1.3m deep, jet sword/ depressors which can trench progressively to the required trench depth.
- Wheel cutter for harder rock which can trench progressively to the required trench depth.

Hydraulic Power Pack (HPP)

- 2 off, 180 kW each, 3300V, electric driven submersible hydraulic power packs mounted on the machine. Total HPP power is 360 kW.

Water Pumps

- The option exists to either mount 2 off or 4 off, 250 kW each, 3300V, electric driven submersible water pumps on the machine. Each pump produces 537 cum/ hr at 11 Bar. Pumps can be mounted in series to produce 22 bar.

Cutter/ Wheel Motors

- 2 off, 100 kW each, hydraulic driven motors.

Supply Umbilical

- Single umbilical with combined power and fibre optics mounted on hydraulically driven reel of 2,000 meter capacity.

Monitoring & Controls

- Extensive control system with CITECT SCADA system with operations from a central control room
- 3 off Pan & Tilt Cameras with lights and Sonars
- 2 Fixed Cameras with lights
- Octans
- USBL
- Others: Cutter, Depressor, Tracks, HPP, Water Pumps, Cable Guide Entry, Solenoid Pod

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