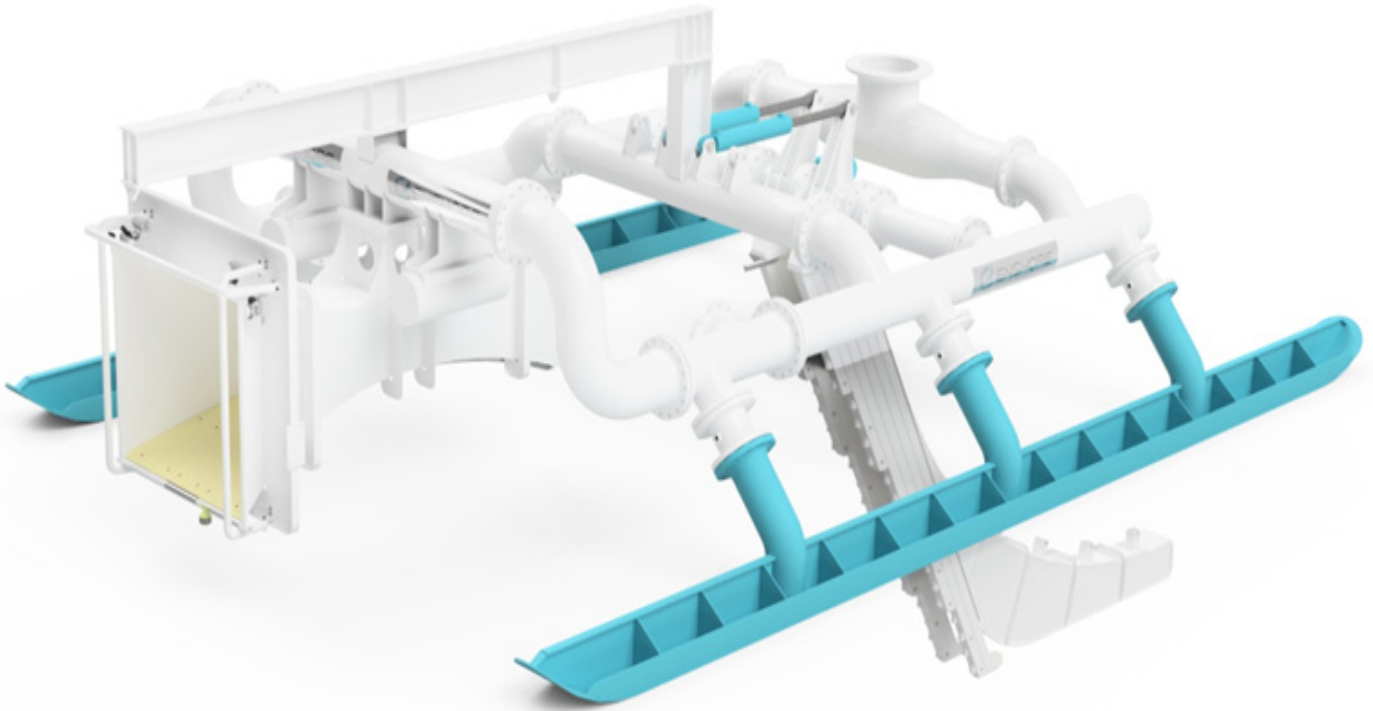




DATA SHEET

Doc Ref: ENS-MAR-DAS-013_RevC

KEY FEATURES

- Up to 100m water depth
- Up to 3m burial depth
- 2000m³/hr flow rate

ENS1400

JET SLED

ENS1400 is a towed Jet Sled system, optimised for beach landing, shore approach and shallow water cable burial. The Jet Sled is capable of trenching products to a depth of 3m in soft cohesive and sandy soils.

ENS1400 water jetting supply is surface supplied, meaning that the water flow and pressure can be optimised to suit the soil conditions and burial depths with ease. The system has an umbilical to provide power and control to the vehicle and provide feedback from the survey sensors onboard.

ENS1400

VEHICLE

Configuration	Tower Jetting Sled
Water Depth Range	0 to 100m

PARTICULARS

Length OA	12m
Width OA	6.2m
Height	2.7m
Weight in Air	15 Te

BURIAL TOOL

Depth Control	0 to 3.0m - with positive cable depressor
Cable Path	300 to 1100mm width
Nozzle Configuration	38 x 20mm dia. forward/downward facing nozzles 2 x 40mm dia. backwash nozzles 18 x 12mm dia. inward facing nozzles
Typical Operating Parameters	10 bar/2000m ³ /hr*
Anticipated Typical Tow Force	2 - 5Te**

* - Jetting pressure and flow rate provided are a guideline. These may be modified throughout trenching as may be necessary

** - Tow force should be controlled to ensure forward movement of the sled as the jets fluidise the sea bed. Excessive tow force will result in poor trenching performance and potential damage to ENS1400.

PRINCIPAL COMPONENTS

ENS1400
Control van
Water lift & main jetting pumps
Water hose & reel
Umbilical winch including HPU
Buoyant umbilical

SENSORS & SURVEILLANCE

Upper, port and starboard bellmouth sensors
3 off depressor cable detectors
Inclinometer for sword depth measurement
Tow force
Octans Gyro
Jet pressure sensor
Water depth pressure sensor
Hydraulic pressure sensor
Tritech Gemini 3D sonar (for cable visualisation)
GPS
2 x responder/transponders
2 x Tritech profilers
Tritech Super SeaKing Sonar
Tritech Bathy/Altimeter
2 subsea cameras
2 subsea lights

CONTROL SYSTEM & POWER DISTRIBUTION

2 x embedded PCs with Metrik Systems Control System
4 x video displays
FO Multiplexor POD
Incoming power supply 230V AC (Domestics Control Cabin), 440V AC 3Ph 60Hz (Pod Transformer)
Vehicle instrument transformer
Control container transformer
Ground fault detection system

