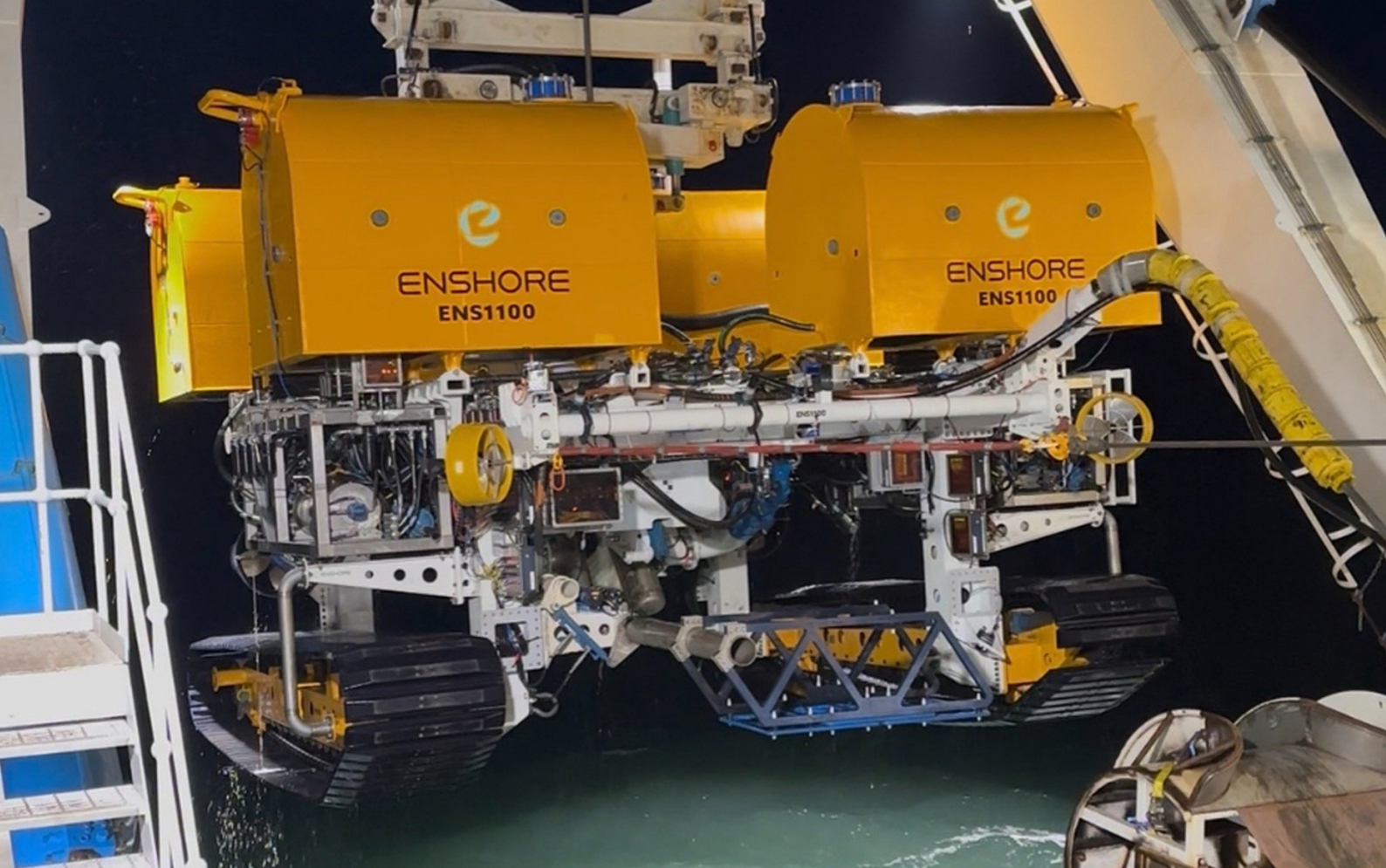




DATA SHEET

Doc Ref: ENS-MAR-DAS-009_RevH

KEY FEATURES

- Simultaneous operations
- Easily and quickly adaptable for a varied range of modes including cutting and jetting
- Trench depths up to 2.5m simultaneous cutting and jetting or up to 3.5m jetting

ENS1100

CUTTING AND/OR JETTING SOLUTION

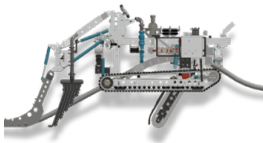
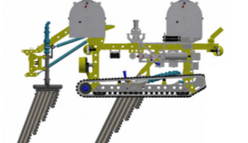
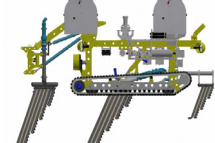
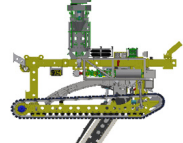
The ENS1100 trencher is the latest addition to the Enshore Subsea fleet. Together with the CMOS Installer, Enshore's dedicated cable-laying vessel, it creates a fully integrated lay and burial solution. Combining proven trenching technology with direct vessel deployment, the ENS1100 can operate in shallow water depths without the need for a third-party trenching support vessel (TSV), reducing interfaces and improving project efficiency.

Designed as a hybrid trenching vehicle capable of burying large diameter submarine cables and flexibles, the vehicle can be configured in multiple operating modes, including hybrid (simultaneous jetting and cutting), jetting, high power jetting and pre-cutting. The system is capable of transitioning subsea between jetting and cutting modes without interrupting trenching operations, maximising efficiency and maintaining continuous progress through varying soil conditions.

This versatility enables trenching power distribution to be optimised for project specific soil conditions and burial requirements.

ENS1100

CONFIGURATIONS - Suitable for a range of soil types, including sands and very soft to hard clays.

	HYBRID	JETTING	HIGH POWER JETTING	PRE CUTTING
				
Operating Depth	1500m	1500m	1500m	1500m
Vehicle Power	1100hp	1100hp	1800hp	1100hp
Power Configuration	2 x 400kW HPU	2 x 400kW HPU	2 x 400kW HPU 2 x 350kW Electric Drive	2 x 400kW HPU
Cutter Power	400kW	N/A	N/A	700kW
Cutter Drives	1	0	0	2
Jetting Power	300kW	700kW	1400kW	N/A
Ancillary Power	100kW	100kW	100kW	100kW
Jet Swords	Aft	Central & Aft	Fwd Central & Aft	N/A
Buoyancy	N/A	Optional	Optional	Optional
Trench Depth	0 - 2.5m	0 - 3.0m	0 - 3.5m	0 - 3.0m
Speed Range (soil dependent)	Up to 300m/hr	Up to 400m/hr	Up to 400m/hr	Up to 300m/hr
Dimensions (L x W x H)	12m x 7.5m x 5.5m	12m x 7.5m x 5.5m	12m x 7.5m x 5.5m	8m x 7.5m x 5.5m
Weight (In water)	~42Te	~39Te	~43Te	~37Te
Weight (In water) with buoyancy	N/A	~5Te	~5Te	N/A
Weight (In air)	~54Te	~51.5Te	~56Te	~48Te
Chain Speed	0-3m/sec	N/A	N/A	0-3m/sec
Max. Product Diameter	300mm	500mm	500mm	N/A

ENS1100

JETTING SWORD POSITIONS

Central Water Jetting (typical) with configurable nozzles	2m swords
Rear Water Jetting (typical) with configurable nozzles	3.5m swords (High Power Jetting) 3.0m swords (Jetting)

SURVEILLANCE EQUIPMENT

4 x Bowtech Compact SD Colour Cameras
4 x Bowtech Compact SD Monochrome Cameras
4 x SubAtlantic 24V Pan & Tils Units
8 x 24V Dimmable LED Floodlights
2 x Multibeam OA Sonar (Fwd and aft facing)
2 x Multibeam profilers (fwd and aft)
Octans Gyro
Depth Sensor
Altimeter
TSS350/440
Responder/Transponders

LAUNCH & RECOVERY SYSTEM (LARS)

Type	A-Frame
SWL	60te
Sea state	Designed for sea state 5
Wind Period	8s wave period
Wind Speed	20m/s
Option to use crane launch system	

PRODUCT HANDLING

Hybrid Mode	Product passes through the trencher over the cutting chain via a pipe roller cradle or cable trough, exiting the rear through jetting swords. The chain swings laterally to clear the product during loading and unloading.
Jetting Modes	Product passes underneath trencher between tracks before passing through jet legs into fluidised trench

