



## SPECIFICATION SHEET

### KEY FEATURES

- Simultaneous cutting and jetting operations.
- Easily and quickly adaptable for a varied range of modes including cutting and jetting.
- Backfill attachment.
- Trench depths up to 3.2m cutting and 5.0m jetting.
- Crane or A-Frame Launch.

# ENS1600 TRENCHER

ENS1600 trencher is a dual mode tracked vehicle with a proven track record for the burial of pipelines, flowlines, umbilicals and submarine cables. ENS1600 can be configured either in simultaneous cutting and jetting or jetting only mode.

ENS1600 can operate in 3.2m chain cutting mode and upto 5m jetting mode with backwash capability. This offers numerous solutions for product burial to meet specific client requirements.

Whilst typically fitted with a subsea power kit, ENS1600 can be configured to shallow water mode where the vehicle is surface fed from a support vessel.

ENS1600 can work in a number of markets including, but not limited to, Oil and Gas, Power Transmission and Offshore Renewables and power cables on the beach, in the surf and offshore.

# ENS1600 TRENCHER

## PARTICULARS

Operating Depth	1500m
Max. Product Diameter	300mm (Cutting), 500m (Jetting)
Max. Trench Depth	3.2m (Cutting), 5.0m (Jetting)
Dimensions with cutter and rear jetting (L x W x H)	16m x 7.5m x 4.7m
Dimensions with Backfill Tool (L x W x H)	12m x 7.5m x 4.7m
Weight (In Water)	38te / 20te (with buoyancy)
Weight (In Air)	50te (with jetter, cutter and trough fitted)
Product Loading / Unloading	Diverless Loading/Unloading

## SPEED RANGE

No Burial	upto 1500m/hr
Trenching (Cutting Mode)	upto 300 m/hr (Soil Dependent)
Trenching (Jetting Mode)	upto 400m/hr (Soil Dependent)

## VEHICLE POWER

Total Power	2 x 600kW HPU's (Subsea power config.)
	1200kW (Surface supplied config.)

## SOIL TYPE

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

## CUTTING MODE

Product Handling	Product passes through trencher over the chain in a protected product highway before rear jet swords simultaneously jet and lower the cable using integrated depressor
Depth Control	0 - 3.2m max. through a combination of differing boom lengths and pup pieces.
Chain Speed	2-4m/sec
Chain Cutter Weight	12.0te

## JETTING MODE

Product Handling	Product passes underneath trencher between tracks before passing through jet legs into fluidised trench.
Water Injection	2500m³/hour at 10bar
Trench Depth Control	5.0m max
Jetting Pack Weight	5.0te

## TYPICAL SURVEILLANCE EQUIPMENT

2 x SIT Cameras
2 x Mono CCD Cameras
1 x Colour CCD Camera
4 x Pan & Tilt Units (24v SubAtlantic)
2 x Rotator Units
8 x Subsea Lights
Obstacle Avoidance Sonar (Gemini)
Response/Transponder, TSS350 or 440 can be fitted
Mini F.O.G Gyro
Echosounder/Altimeter + Bathymetric
Hydrophone

