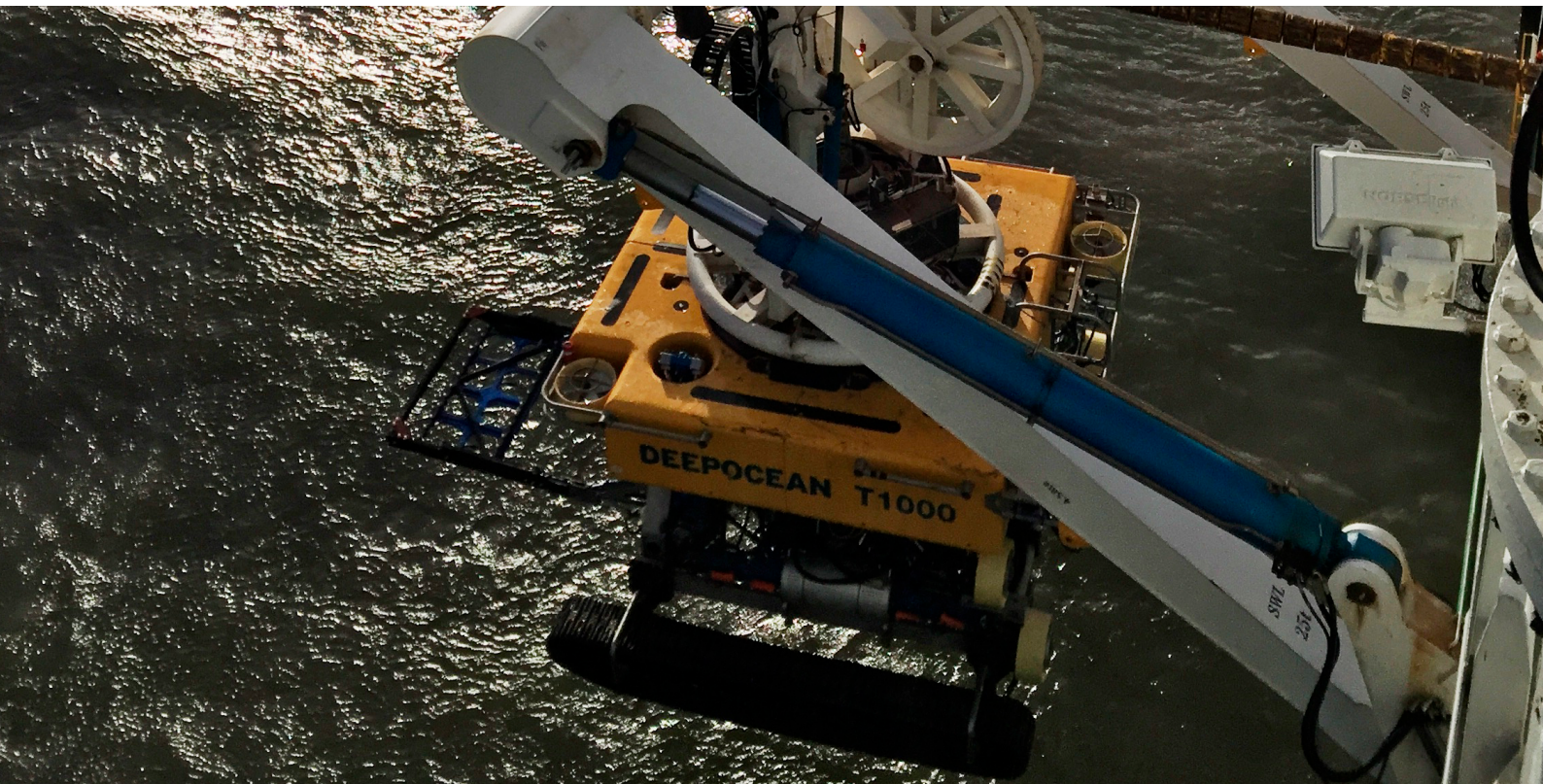


T1000

SPECIFICATION SHEET



T1000 JET TRENCHING ROV

KEY FEATURES

The T1000 is an advanced Jet Trenching ROV suitable for deployment in water depths to 2000m. The 1000 Horse Power (750kW) subsea power system is capable of 3.5 knots manoeuvring performance and 3m maximum burial capability, providing a leading solution for burial of cables, umbilicals and flexible pipes.

The adjustable 3m jet tool allows for varying diameter products and splice burial whilst downward facing nozzles provides capability for burial in all cohesive soils (up to 80kPa) and all sand grades. The burial arm is fitted with sensors for accurate and controlled cable burial. This high specification ensures that the T1000 is one of the most versatile and reliable Jet Trenching ROVs available. Equipped with a High Sea State LARS Launch and Recovery system, the T1000 can be deployed in harsh weather conditions with up to 4.57m significant wave height.

The T1000 is permanently mobilised onboard the Havila Phoenix trenching support vessel. The combination of the T1000 Jet Trenching ROV, T3200 Mechanical/Jet Trencher and the Havila Phoenix vessel specification provides a step change in trenching capability within the subsea intervention market.

- OPERATING DEPTH - UP TO 2000M
- CONFIGURABLE FOR A WIDE RANGE OF APPLICATIONS
- HIGH SEA STATE DEPLOYMENT
- 3M MAXIMUM BURIAL CAPABILITY
- SOPHISTICATED SENSORS FOR ACCURATE AND CONTROLLED CABLE BURIAL INDICATION AND RECORDING

SPECIFICATION SHEET

PARTICULARS	
MAX. OPERATING DEPTH	2000m
MAX. PRODUCT DIAMETER	500mm
MAX. BURIAL DEPTH	3.0m
LENGTH	5.5m
WIDTH	5.45m
HEIGHT	3.25m
WEIGHT IN AIR	24Te
MODES	Operates in free flying or tracked mode
SUBMERGED WEIGHT	Neutrally bouyant in free swimming mode 1500kg in tracked mode
TOTAL POWER	1000HP (750kW)

SOIL TYPE	
Suitable for a range of soil types, including sands to firm clays (up to 80kPa) resistance starting in water depths as little as 0.5m	

THRUSTERS	
SUBSEA POWER	2 x 500hp (375kW), 4 pole, 60Hz motors
HORIZONTAL	6 x Curvetech HTE500
VERTICAL	4 x Curvetech HTE500

JETTING SYSTEM	
CONFIGURATION	Twin legged jet tool that straddles the cable / pipe
TRENCH DEPTH	Variable from 0 - 3m
WIDTH CONTROLL	100mm to 1050mm remotely adjustable independently controlled
WATER PUMPS	Two vertically mounted, hydraulically driven water pumps. Variable speed control from surface 0-300kW per pump (0-350kW in tracked mode). 1000m3/hr flow @ 8bar per jet leg
NOZZLE CONFIGURATION	Each leg with an array of downward and forward directed jets, plus a backwash jet. Varying diameters to suit range of soil & operating conditions
MULTI-PASS	Single or multi-pass operations

The T1000 is not limited to these parameters and can be modified by DeepOcean to complete worksopes in excess of its current configuration.

SPECIALIST TOOLING	
PIPELINE TRENCHING TOOL	Up to 2m trench depth. Up to 20" OD Pipe Leg width 100 to 550mm (4" to 21") remotely adjustable, continuously variable
BACKFILL CONFIGURATION	Twin leg device that sits in the trench with two above seabed jets designed to wash the seabed either side of the trench and collapse the soil onto the product
BACKFILL SOIL CONDITIONS	Suitable for all sand, silt and mud grades and cohesive soils up to 75kPa
BACKWASH SYSTEM	Third set of pipes with rear facing nozzles

SURVEILLANCE EQUIPMENT	
PIPE FOLLOWING	TSS Dual Track
CAMERAS	Up to 8 Cameras. 4 x Colour zoom
LAMPS	12 x Bowtech Aquavision LED Lights
PAN AND TILT	6 x electric 24V P&T or Rotator units
GYRO	CDL TOGS Unit
DEPTH SENSOR	Integral to TOGS Unit
ECHOSOUNDER	Tritech Altimeter PA500
ACOUSTIC POSITIONING	2 x AAE Midi Beacon Model 949
STROBOSCOPE	Xenon Strobe Bowtech ST3K
RADIO BEACON	Novatec RF700-1
MULTI-BEAM SONAR	Tritech Gemini

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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.

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