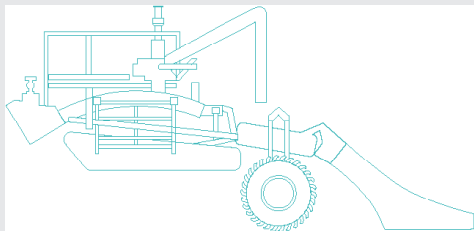




## SPECIFICATION SHEET



### KEY FEATURES

- Unique capability for offshore and onshore burial
- Variable modes for enhanced burial
- Simultaneous lay and burial
- Trench depths to 1.3m wheel cutter mode
- Trench depths to 2.0m jetting mode

# T1 TRENCHER

## HARD GROUND TRENCHING FROM BEACH TO SUBSEA

T1 is a recently upgraded mechanical trenching system with the unique ability to deliver trenching capability both subsea and onshore.

The trencher has 520kW of total power and can be adapted to operate in cutting and jetting mode for multiple soil and environmental conditions.

Enhanced burial depths to 1.3m in cutting mode and 2.0m in jetting mode can be achieved.

T1 is a solution for the burial of pipelines, flow lines, umbilicals and power cables on the beach, in the surf and offshore.

# T1 TRENCHER

## GENERAL

	WHEEL CUTTER	JETTER
Operating Depth	1000m	1000m
Max. Product Diameter	250mm	500mm
Max. Trench Depth	1.3m	2.0m
Length	13m	11.5m
Width	5.5m	5.5m
Height	6.5m	6.5m
Weight in Air	25te	19.5te
Weight in Water	16te	12te

## SPEED RANGE

	WHEEL CUTTER	JETTER
No Burial	0 -1500m/hr	
Trenching	50 - 250m/hr	50 - 500m/hr

## VEHICLE POWER

520W (2 x 260kW) electric motor supply main vehicle hydraulics and 2 fixed / variable speed drives and water supply

## SOIL TYPE

WHEEL CUTTER	JETTER
Suitable for all sands, soft to hard clays and weak rock	Suitable for all uncemented sands, and soft to firm clays

## PRODUCT HANDLING

WHEEL CUTTER	JETTER
Product is carried from the front mounted bellmouth over the top of the vehicle, through trough assembly, to wheel cutter. Bellmouth fitted with feeler assembly to assist in monitoring cable catenary during simultaneous lay-trench operations.	Product passes underneath Trencher between tracks before passing through jet legs into fluidised trench. Bellmouth fitted with feeler assembly to assist in monitoring cable catenary during simultaneous lay/trench operations. Depressor can be fitted between jet legs to ensure positive depth location when trenching flexible products.

## CRANE MANIPULATOR

Maximum Load	2000kg
Maximum Reach	7m
8 functions total + boom mounted camera for peripheral vision	

## WHEEL CUTTER

Cutter	Wheel type mechanical cutter with depressor assembly and enclosed cable handling system mounted on rear instrumented tool linkage
Flow Rate	437m³/hr @ 4.6 bar
Trench Width	Up to 390mm
Wheel Type	External spur gear transmission
Cutting Picks	37.5mm diameter Tungsten Carbide point attack cutting picks
Wheel Speed	Up to 50RPM

## JET TOOL

Gap Between Legs	200-500mm maximum
Flow Rate	1748m³/hour at 4.6 bar
Forward Jet Tool	Not product engaging, suitable for tight turns, loops, close proximity etc.
Cutting Picks	5mm diameter Tungsten Carbide point attack cutting picks

## SURVEILLANCE EQUIPMENT

Obstacle Avoidance Sonar
6 x Subsea Cameras
2 x Pan & Tilt Units
1 x Rotator Unit
8 x Subsea Lights
Responder / Transponder
Mini F.O.G Gyro
2 x 720i Gemini Sonar

