

# T1 TRENCHER

## SPECIFICATION SHEET



### 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, flowlines, umbilicals and power cables on the beach, in the surf and offshore.

### 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

## SPECIFICATION SHEET

GENERAL		
	WHEEL CUTTER	JETTER
<b>OPERATING DEPTH</b>	1000m	1000m
<b>MAX. PRODUCT DIA</b>	250mm	500mm
<b>MAX. TRENCH DEPTH</b>	1.3m	2.0m
<b>LENGTH</b>	13m	11.5m bar
<b>WIDTH</b>	5.5m	
<b>HEIGHT</b>	6.5m	
<b>WEIGHT IN AIR</b>	25te	19.5te

SPEED RANGE		
	WHEEL CUTTER	JETTER
<b>NO BURIAL</b>	0 -1500m/hr	
<b>TRENCHING</b>	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 carries 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 cateneryduring 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 catenery during simultaneous lay/trench operations. Depressor can be fitted between jet legs to ensure positive depth locationwhen trenching flexible products

CRANE MANIPULATOR	
<b>MAXIMUM LOAD</b>	2000kg
<b>MAXIMUM REACH</b>	7m through 340°
8 functions total + boom mounted camera for peripheral vision	

WHEEL CUTTER	
<b>CUTTTER</b>	Wheel type mechanical cutter with depressor assembly and enclosed cable handling system mounted on rear instrumented tool linkage
<b>TRENCH WIDTH</b>	300mm
<b>WHEEL TYPE</b>	External spur gear transmission
<b>CUTTING PICKS</b>	37.5mm diameter Tungsten Carbide point attack cutting picks

JET TOOL	
<b>GAP BETWEEN LEGS</b>	50 - 580mm maximum
<b>TRENCH WIDTH</b>	1750m <sup>3</sup> /hour at 4.5bar
<b>FORWARD JET TOOL</b>	Not product engaging, suitable for tight turns, loops, close proximity etc.
<b>CUTTING PICKS</b>	25mm diameter Tungsten Carbide point attack cutting picks

SURVEILLANCE EQUIPMENT	
Obstacle Avoidance Sonar	
2 x Monochrome CCD Cameras	
A x Monochrome SIT Cameras	
2 x Pan & Tilt Units	
1 x Rotator Unit	
8 x Subsea Lights	
Responder / Transponder	
Mini F.O.G Gyro	

Revision Date 29/05/2017

DeepOcean accepts no responsibility for and disclaims all liability for any errors and/or omissions in this production.

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.