

# CT-1

## Technical Specification

C-Trencher 1 is an SMD built, free-swimming and/or track based 460kW/620HP jet trenching system. The system is fully operational in water depths down to 2500m and capable of trenching to soil depths of 3m.

### VEHICLE

Configuration	Free Swimming Vehicle Fitted with skids or track base
Total Power	460kW/620HP
Operating Depth	2500m

### BURIAL TOOL

Configuration	Twin jet legs with multiple water jets and positive cable depressor. Two tool sets, one for 2m and the other for 3m burial.
Maximum Jet Pressure	5 Bar
Depth Control	0 - 3000mm 0 - 2000mm (short swords for harder ground)
Width Control	100 - 700mm (between jet legs)
Water Delivery	2 x variable speed hydraulically driven water pump

### PARTICULARS

HPU	1 x 280kW 4 Pole 3.3kV electro-hydraulic unit 1 x 180 kW direct drive water pump
Horizontal Thrusters	4 x 420mm dia. in 45° Vector 2 x 500mm SubAtlantic thrusters (can be vectored)
Vertical Thrusters	4 x 380mm dia.

### PARTICULARS CONT.

Maximum Forward Thrust	1400kg
Maximum Vertical Thrust	800kg
Length	6100mm (tool and tracker raised)
Width	3840mm (with tracks) 3700mm (with skids)
Height	3500mm
Weight in Air	18,000kg (with tracks) 15,000kg (with skids)
Weight in Water	Nominal buoyancy (no tracks) 600 - 1000kg heavy with tracks

### CABLE TOOL PACKAGE

Manipulators	2 x 7 Function Schilling (optional)
Cable Cutter	Webtool HCV 100 0 - 100mm (optional)
Cable Clamp	Slingsby TA 17 (optional)

### SURVEILLANCE EQUIPMENT

Cameras	1 x Colour CCD 1 x SIT Monochrome 2 x CCD Monochrome
Echosounder	Mesotech 807
OA Sonar	Mesotech 971
Pan and Tilts	2 x Sub Atlantic
Lamps	8 x 150w individually switched lamps
Heading Sonar	Watson Gyro Pitch/Roll/Heading
Acoustic Position	Facility for 2 x responders
Cable Tracker	TSS Dualtrack (TSS440/TSS350 capability)
Multiplexer integration ready	1 x 10/100 Ethernet port for surveillance integration

### PRINCIPAL COMPONENTS

Umbilical Winch
ROV
Overboarding Sheave
Control Van
Electrical Workshop
Mechanical Workshop
Half Height spares container



SMART  
SUBSEA  
SERVICES



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