



# COMPACT HARD GROUND CABLE TRENCHER BT1200



ENGINEERING  
EXCELLENCE  
UNDERWATER

# COMPACT HARD GROUND CABLE TRENCHER BT1200

The BT 1200 draws on SMD's experience of track driven vehicles, trenching and cable handling subsea to provide a soft to hard ground burial solution in one neat package. BT1200 is a fully amphibious 900kW vehicle and comes equipped with a well proved hard ground cutting system comprising chain cutter, dredge pump and jet legs, with the option of a powerful wheel cutter. The cutter deployment system allows post lay burial of cable up to 300mm and 3.0m MBR. The vehicle is supplied with a range of optional features including an intervention manipulator with jetting, two grab functions, semi automatic or work class ROV emergency cable eject systems, spoil backfill system and rapid recovery, shallow water umbilical guided lift bullet system.

## FEATURES

- Simultaneous chain cutting and jetting functions reduce downtime
- Optional wheel cutter for very hard ground can be easily integrated
- Full power sharing between tools to suit ground conditions
- Simultaneous & post lay burial with cable handling & surveillance enabling time, cost and safety benefits
- Versatile compact solution minimises deck space requirements

## SMD CUSTOMISATION SERVICE

SMD understand that each customer is different and therefore that customers have different needs from their systems. In order to meet customer specific requirements SMD can customise vehicles using a range of standard components to suit preference and performance requirements.

## CONTACT US

### SMD

info@smd.co.uk

+44 (0) 191 234 2222

SMD.CO.UK

# COMPACT HARD GROUND CABLE TRENCHER BT1200

## SYSTEM SPECIFICATIONS

### GENERAL

Depth rating	1000msw
Approximate dimensions*	
Length	14.5m
Width	7.5m
Height	5.5m
Weight in air	50-60Te

### PERFORMANCE

Trench Depth	3.0m max (jetting)
Max Cable Diameter	up to 400mm
Speed	0-250m/hr
Soil Types	All sands Clays from 10-4000KPa Rock up to 50MPa
Installed power	900kW (total)

### MECHANICAL

Construction	High strength steel chassis
Wear parts	Replaceable wear-resistant steel tracks
Other	Stainless steel fittings and housings

### CHAIN CUTTER SYSTEM

Configuration	Single vertical hyd. drive chain cutter with separate rear jet tool
Chain type	Available with a variety of picks
Installed power	500kW
Chain width	500mm
Chain depth (trench)	2.3m
Forward dredge pump	75kW
Dredge spoil backfill	spoil fed to cover cable

### JETTING SYSTEM

Configuration	Independent twin-legged device either side of cable/product
Jetting	Water pumps with hydraulically variable supply
Pressure	10-15bar
Sword isolation	Upper 1.0m for hard ground
Installed Power	700kW
Jet leg (trench depth)	3.0m
Depressor	3.0m

### SUBSEA ELECTRONICS

Electronics	One atmosphere pressure vessel
-------------	--------------------------------

### SUBSEA SURVEILLANCE

Comprehensive instrumentation and surveillance suite, typically comprising:

- Cameras
- Lamps
- Pan & tilt
- Sonar

### POWER & CONTROL

Power & control	Vessel integrated or housed system in A60 containers
Umbilical system	Umbilical cable on a rendering winch

### LARS

A-FRAME	80Te SWL sea state 5 with docking frame
Lift winch	Lift wire with bullet
HPU	Deck mounted

### TYPICAL OPTIONS

<b>WHEEL CUTTER</b>	
Configuration	Centrally mounted wheel cutter
Wheel type	Suitable for cutting heavy duty rock
Trench depth	1.5m
Trench width	300mm
Installed power	500kW
MBR	3.0m

Soft ground capability (with buoyancy)	12-20kPa
--	----------

Crane manipulator

### ARTEMIS™ CABLE TRACKING

Exclusively available to purchase with SMD trenching systems

Detection Range (Passive)	up to 10m
(Active)	up to 5m
Vertical measurement accuracy	+/-5% plus 5cm
Depth rating	2000m
Refer to Artemis technical data for more information	

### AFTER SALES SERVICE

Operational personnel  
Technical support  
Service agreements  
Spares packages

\*All dimensions are approximate and subject to final design

CONTACT US

SMD

info@smd.co.uk

+44 (0) 191 234 2222

SMD.CO.UK