



COMPACT 2.0M HARD GROUND TRENCHER BT800



ENGINEERING
EXCELLENCE
UNDERWATER

COMPACT 2.0M HARD GROUND TRENCHER BT800

The BT800 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. BT800 is a fully amphibious vehicle and comes equipped with a powerful chain cutter, dredge pump and jet legs. A well proven chain cutter deployment system allows post lay burial of cable up to 300mm and 3.0m MBR.

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.

FEATURES

- 300mm cable burial tractor weighing 30-35 Te
- 2.0m rock chain cutter to 20MPa or 40MPa
- Full power sharing between tools to suit ground conditions
- Simultaneous & post lay burial with cable handling & surveillance
- Fore dredge pump transporting
- 600m³/hr solids for trench clearing & backfill

CONTACT US

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SYSTEM SPECIFICATIONS

GENERAL

Depth rating	1000msw
Dimensions	
Length	12.5m
Width	6.5m
Height	5.5m
Weight in air	30-35Te

PERFORMANCE

Trench Depth	2.0m max
Max Cable Diameter	300mm
Speed	0-250m/hr
Soil Types	All sands Clays from 10-400kPa Rock from 10-400kPa
Soft ground capability (w/buoyancy)	12-20kPa
Installed power	600kW (total)

MECHANICAL

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

TRENCHING SYSTEM

Configuration	Single vertical hyd. drive chain cutter with separate rear jet tool
Trench profile	2.0m vertical
Chain power	300kW
Chain width	600mm
Chain depth	2.0m
Chain speed	0 to 4.0m/s
Chain type	Heavy duty chain with point attack picks
Forward dredge pump	75kW/hr 600m ³ solids
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 1	0-15bar
Flow	Up to 600m ³ /hr per sword @10bar
Sword isolation	Upper 1.0m for hard ground
Power	2x200kW direct drive
Jet leg	depth 2.5m
Depressor	2.5m

CRANE MANIPULATOR & TOOLS

Configuration	Four function crane fitted with three function grab, single water jet and dredge system
Crane lift capacity	3Te/m
Grab max lift capacity	4.0Te
Crane max reach	7.0m
Crane jet power	1500lpm @ 4 bar

HYDRAULIC SYSTEM

Cylinders	Smart heavy duty marine
Valves	Directional & counterbalance
Valve packs	Stainless steel, oil compensated
Manifolds, pipes & fittings	Stainless steel
Hoses	Mutli-spiral flexible hoses

SUBSEA SURVEILLANCE

Cameras	Up to 8 (HDTV optional)
Lamps	Up to 12 x 250V Dimmable LED subsea lamps (Dimmed in groups)
Pan and tilt	Up to 6 24V P&T units
Sonar	Kongsberg/Tritech
Gyro	Fibre optic
Acoustic Positioning	To suit vessel
HID lamps (optional)	Up to 2 x 400W
Profilers (optional)	Kongsberg/Tritech/Multibeam
Echosounder (optional)	Kongsberg
High definition multibeam sonar	Blueview

OTHER EQUIPMENT

Control & power system	2 x 20ft ISO container SMD DVECS II or DVECS S system
LARS	45Te SWL sea state 5 A frame with shallow water rapid recovery option
Umbilical system	1500m & 3.0Te winch
Winch HPU	22kW or 330kW deck mounted
A-frame 45Te	SS5 with rotator docking frame
Lift winch	1000m lift wire with bullet

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