

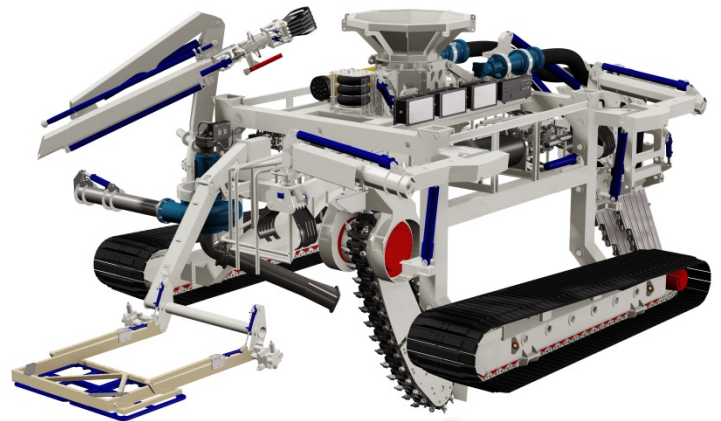
INNOVATIVE CABLE TRENCHING SOLUTION

CABLE BURIAL TRACTOR 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 3.0 MBR.

FEATURES

- 35Te tractor
- 600kW of installed power
- Simultaneous and post lay cable burial
- 2.0m Variable jetting capability with depressor
- 2.0m chain cutter for hard ground up to 20MPa
- Fore Dredge Pump transporting 600m³/hr solids
- 300mm max. cable diameter
- 3.0m min. bend radius
- 3te/m crane manipulator with jet/dredge tools
- 1000m max. water depth
- Comprehensive instrumentation and surveillance
- SMD DVECSTM Control system



SMD CUSTOMISATION SERVICE

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

SYSTEM SPECIFICATIONS

GENERAL

Depth rating.....	up to 1000m
Dimensions	
Length (excluding tools)	4.8m
Length (including tools)	13.8m
Width	6.5m
Height	4.0m
Weight in air	35te
Submerged weight	30te

PERFORMANCE

Speed range (no burial)	0-1500m/hr
Speed range (trenching)	50-750m/hr
Ground pressure.....	25kPa
Installed power	600kW total:
.....	2 x 300kW, 4-pole HPU

MECHANICAL

Construction	High strength steel chassis
Tracks	1000mm plastic tracks on steel chain

JETTING SYSTEM

Main jet tool configuration	Twin leg jet tool with
.....	fwd/downward facing jets
.....	and cable depressor
Trench depth	0.3 to 2.0m standard
Width control.....	150mm to 300mm– remotely variable
Water supply	Maximum 600m ³ /hr at 9bar
Operating pressure	7-15bar

CHAIN CUTTER SYSTEM

Configuration.....	Swing frame for deployment and cable
.....	loading via hydraulic cylinders
Chain width.....	600mm
Power.....	300kW
Chain speed	0 – 3m/s
Trench depth	2.0m
Cable path.....	250mm
Soil Strength	Up to 20MPa compressive

DREDGE SYSTEM

Configuration.....	Front mounted with backwash function
Power.....	up to 50kW
Water flow.....	1600m ³ /hr

CRANE MANIPULATOR

Configuration	Cylinder actuated slew mechanism
.....	boom, two-stage jib and grab
Maximum load.....	2000kg
Maximum reach.....	7.0m

CABLE TRACKING PACKAGE

Cable detection and survey	
Tone detection	TSS350
Pulse Induction	TSS440
Other	O/A Sonar and cameras
TSS440 Deployment	hyd. actuated frame

SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel
Depth Rating	1000m
Communication	Fibre Optic MUX

SUBSEA SURVEILLANCE

Cameras	up to 8 cameras
.....	(HDTV optional)
Lamps	up to 12 x 250W, (2 x 400W HMI optional)
Pan and Tilt	up to 6 x robust 24V P&T units
Sonar	Tritech/ Kongsberg
Gyro	Fibre Optic
Profilers (Optional)	Tritech/ Kongsberg/ Multibeam
Acoustic Positioning (Optional)	to suit vessel

OTHER EQUIPMENT

Control System	20ft ISO container or vessel control room
.....	Active chair or console layouts
.....	SMD DVECS system
Power System	housed in 10ft ISO container
LARS	Sea State 5 or 6 A-frame with umbilical lift
Umbilical Winch.....	Sea state 5 or 6 umbilical lift
Deck HPU	220kW