

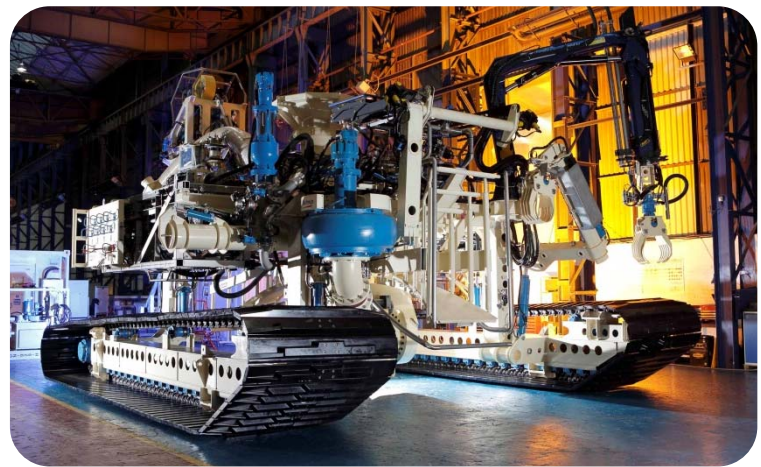
INNOVATIVE CABLE TRENCHING SOLUTION

CABLE BURIAL TRACTOR BT1100

The BT1100 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. BT1100 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 5.0 MBR.

FEATURES

- 50Te tractor
- 800kW of installed power
- Simultaneous and post lay cable burial
- 3.0m variable jetting capability with depressor
- 2.3m chain cutter for hard ground up to 40MPa
- Fore dredge pump transporting 800m³/hr solids
- 300mm maximum cable / umbilical diameter with rear swords
- 3.0m-5.0m minimum bend radius dependent on burial depth
- 3te/m crane manipulator with jet/dredge tools
- 1000m maximum water depth
- Comprehensive instrumentation and surveillance
- SMD DVECS™ 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 (including tools) 14.5m
 Width 7.5m
 Height 5.5m
 Weight in air 50.0te
 Submerged weight 38.0te

PERFORMANCE

Speed range (no burial) 0-2000m/hr
 Speed range (trenching) 50-1000m/hr
 Ground pressure.....10-12kPa
 Installed power 800kW total:
 2 x 400kW, 4-pole HPU's

MECHANICAL

Construction High strength steel chassis
 Tracks 1750mm plastic tracks on steel chain

JETTING SYSTEM

Main jet tool configurationTwin leg jet tool with
 fwd/downward facing jets
 and cable depressor
 Trench depth0.3 to 3.0m standard
 Width control.....Maximum 350mm– remotely variable
 Water supply Maximum 1200m³/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..... 400kW
 Chain speed 0 – 3m/s
 Trench depth 2.3m
 Cable path..... 350mm
 Soil Strength Up to 40MPa compressive

DREDGE SYSTEM

Configuration..... Front mounted with backwash function
 Power..... up to 75kW
 Water flow..... 2200m³/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 PodOne atmosphere pressure vessel
 Depth Rating 1000m
 Communication Fibre Optic MUX

SUBSEA SURVEILLANCE

Camerasup to 8 cameras
(HDTV optional)
 Lampsup to 12 x 250W, (2 x 400W HMI optional)
 Pan and Tilt up to 6 x robust 24V P&T units
 Sonar Trittech/ Kongsberg
 Gyro Fibre Optic
 Profilers (Optional) Trittech/ 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 Systemhoused in 20ft 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