

COMPACT CABLE TRENCHING TRACTOR CABLE BURIAL TRACTOR BT500

The BT500 is SMD's newest addition to its cable trenching vehicle line. A compact design based on SMD's wealth of experience in track driven vehicles, the BT500 is capable of trenching and cable handling in hard ground from very stiff clay to rock in shallow water up to 1000m water depth. The BT500 can be supplied with a chain cutter, 1.25m wheel cutter or optional jetting system enabling it to be configured to many job requirements.

FEATURES

- 25te tractor weight
- 400kW of installed power
- Simultaneous & post lay cable burial
- 2m chain cutter with 600kPa option
- 1.25m wheel cutter trench system for ground strength up to 35MPa
- 2m variable jetting capability option
- Crane manipulator – 2te SWL
- Diverless cable loading and unloading
- DVECS robust distributed control platform provides reliable, ergonomic operations and good diagnostics
- Proven Curvetech™ components throughout
- Range of SMD designed A-frame based LARS for standard and high sea states



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.....	1000msw
Length (excluding tools)	9.5m
Width	6.3m
Height	5.8m
Weight in air (excluding crane)	23te
Submerged weight	20te

PERFORMANCE

Speed range (no burial)	0-1000m/hr
Speed range (trenching)	10-500m/hr
Ground Pressure.....	18kPa
Installed Power	400kW total:
.....	1 x 400kW, 4-pole HPU

MECHANICAL

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

WHEEL CUTTER TRENCH SYSTEM

Configuration	Wheel cutter mounted
.....	under centre of vehicle
Wheel type	suitable for cutting heavy duty rock
Power.....	up to 300kW
Trench depth	1.25m
Trench width.....	300mm
Minimum bend radius	3m
Turning circle	25m

DREDGE SYSTEM

Configuration	Centrifugal dredge pump
Power.....	40kW
Water flow.....	1250m ³ /hr

CHAIN CUTTER TRENCH SYSTEM

Configuration.....	twin strand cutting chain with clay picks
Chain width.....	400mm
Power.....	up to 300kW
Chain speed	1.0 – 2.5 m/s
Trench depth	2m
Cable path.....	250mm x 250mm
Trenching speed	50 – 700m/hr
.....	Dependent on soil conditions

CRANE MANIPULATOR

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

JETTING TOOL (OPTIONAL)

Configuration	Twin leg device that straddles product
.....	Single or multi-pass operation
Trench depth	up to 2m
Product size	up to 500mm diameter

HYDRAULIC SYSTEM

Cylinders	Smart heavy duty marine type
Valves.....	Directional and Counterbalance
Valve packs	Stainless Steel, Oil Compensated
Manifolds, pipes and fittings	Stainless Steel
Hoses	Multi-spiral flexible hoses

SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel
Depth	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	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	2 x 150kW