



CABLE BURIAL TRACTOR BT500



ENGINEERING
EXCELLENCE
UNDERWATER

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.

CONTACT US

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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	125m
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	10 – 25 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	70m

JETTING TOOL (OPTIONAL)

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

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 housed in 10ft ISO container
Power System LARS	Sea State 5 or 6 A-frame with umbilical lift
Umbilical Winch Deck HPU	Sea state 5 or 6 umbilical lift 2 x 150kW

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