COMPACT 2.3/3.0M HARD GROUND CABLE TRENCHER

The CBT 1100 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. CBT1100 is a fully amphibious 800kW 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 4.0m MBR. The Tractor is supplied with a range of optional features including an intervention manipulator with jetting, two grab functions, semi automatic or work class ROV emergency cable cable eject systems, spoil backfill system and rapid recovery, shallow water umbilical guided lift bullet system.

FEATURES

- 300mm cable burial tractor weighing 45-55Te
- 2.3m 40MPa rock chain cutter
- 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

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 preferene and performance requirements.

FOR MORE INFORMATION CONTACT US - TRENCHING@SMD.CO.UK

CBT 1100

GENERAL	
Depth rating	1000msw
Dimensions Length Width Height	 14.5m 7.5m 5.5m
Weight in air	45-55Te
PERFORMANCE	
Trench Depth (jetting)	3.0m max
Max Cable Diameter	300mm
Speed	0-250m/hr
Soil Types	All sands Clays from 10-4000KPa Rock from1-40MPa
Soft ground capability (with buoyancy)	12-20kPa
Installed power	800kW (total)
MECHANICAL	
Construction	High strength steel chassis
Wear parts	replaceable wear-resistant steel
Other	Stainless steel fittind and housings
TRENCHING SYSTEM	
Cofiguration	Single vertical hyd. drive chain cutter with separate rear jet tool
Trench profile	2.3 & 3.0m vertical
Chain power	400kW
Chain width	600mm
Chain depth	2.3m
Chain speed	0 to 4.0m/s
Chain type	heavy duty chain with point attack picks
Forward dredge pump	75kW/hr 600m3 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	10-15bar
Flow	Up to 800m3/hr per sword @10bar
Sword isolation	Upper 1.0m for hard ground
Power	2x300kW direct drive
Jet leg depth	3.0m
Depressor	3.0m

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 & fittins	stainless steel
Hoses	Mutli-spiral flexible hoses
SUBSEA SURVEILANCE	
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	Kongsbery/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	65Te 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 65Te	SS5 with rotator docking frame
Lift winch	1000m lift wire with bullet

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