

COMPACT INSTALLATION AND MAINTENANCE ROV Q-TRENCHER 500

The Q-Trencher 500 ROV provides high power trenching capability for the burial of cables up to 3m deep. The ROV uses variable high flow or high pressure jetting to optimise the trenching to suit the conditions. It can also deploy a rear eductor to enhance burial of large diameter product. Using a forward jet tool it can manoeuvre to bury tight loops. Its high thrust enables rapid post lay survey. It can also be fitted with a suite of tools for maintenance operations. SMD offer a turnkey, integrated solution including SMD designed high sea state LARS and umbilical system.

FEATURES

- 500hp of installed power
- 3m maximum trench depth capability
- Up to 3 knots swimming for survey
- 2500m maximum water depth
- Track modules for harder ground trenching
- Optional skids for soft ground trenching and survey
- Variable high flow or pressure jetting for optimized trenching
- Optional rear eductor for large product burial
- Cable maintenance tools package including manipulators, cable cutter and clamp
- DVECS™ robust distributed control platform provides reliable, ergonomic operations and 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.....	2500m
Dimensions (tracked mode)	
Length	4.3m (tracker arm stowed)
Width	3.7m
Height	3.0m
Weight in air (tracks)	12.0te
Submerged Weight	1000kg
Max Bollard Pull.....	2000kg

PERFORMANCE

Vertical	2.3 knots
Fore / Aft	4.0 knots
Lateral	2.3 knots
ROV Power	500hp (375kW) total

THRUSTERS

Horizontal	4 x Curvetech HTE500
Vertical	4 x Curvetech HTE500

MECHANICAL

Chassis	High strength aluminium alloy
Buoyancy	Syntactic foam with macro-spheres

JETTING SYSTEM

Main Jet Tool Configuration	Twin leg jet tool
Trench Depth	0 to 3.0m
Width Control	100mm to 400mm
.....	remotely adjustable
Water Supply	twin hydraulically driven water pumps
.....	0-165kW per pump
Forward jet tool	Mounted at front of vehicle

TRACK MODULES

Construction	Bolt on modules
.....	Hydraulically driven
.....	Plastic track plates
Speed	0 to 1km/hr

CABLE TOOLS PACKAGE

Manipulators	2 x 7 function
Cable Cutter	up to 100mm
Cable Clamp	up to 100mm
Grapnel tool.....	1.5m depth cable recovery

DREDGE SYSTEM

Configuration	Twin leg aft mounted eductor
.....	Hydraulic dredge pump
Dredge Depth	0 to 2.0m

SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel
Depth Rating	2500m

SUBSEA SURVEILLANCE

Cameras	up to 8 cameras
Lamps	up to 10 LED lamps
Pan and Tilt	up to 6 P&T
Sonar	Obstacle avoidance
Gyro	Fibre Optic
Profilers (Optional)	Multi-beam
Acoustic Positioning (Optional)	to suit vessel

CABLE TRACKING PACKAGE

Cable detection and survey	
Tone detection	TSS350
Pulse Induction	TSS440
Other	O/A Sonar and cameras

POWER AND CONTROL

Control Cabin	housed in 20ft ISO container
Control System	DVECS II™
Power Cabin.....	housed in 1 x 12ft ISO container

LARS

A-Frame	12.5te SWL; sea state 5
Docking Frame	12te SWL; sea state 5
Umbilical Winch.....	12.5te SWL; sea state 5
Deck HPU	2 x 110kW