

COMPACT INSTALLATION AND MAINTENANCE ROV Q-TRENCHER 600

The Q-Trencher 600 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

- 600hp of installed power
- 3m maximum trench depth capability
- Up to 3 knots swimming for survey
- 3000m maximum water depth
- Optional rear eductor for large product burial
- Optional track modules for hard ground trenching
- Variable high flow or pressure jetting for optimized trenching
- 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.....	3000msw
Dimensions	
Length	3.8m
Width	4.6m
Height	2.6m
Weight in air (skids)	11te
Submerged Weight	buoyant
Max Bollard Pull.....	1500kg

PERFORMANCE

Vertical	1.5 knots
Fore / Aft	3.5 knots
Lateral	3.0 knots
ROV Power	600hp (450kW) total:
.....	1 x 600hp (450kW) 4-pole Curvetech™ HPUs

THRUSTERS

Vectored / Forward	4 x Curvetech™ HTE500
Vertical	4 x Curvetech™ HTE380

MECHANICAL

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

JETTING SYSTEM

Main Jet Tool Configuration	Twin leg jet tool with
.....	fwd/downward facing jets (sub seabed)
Trench Depth	0 to 3.0m standard
Width Control	100mm to 400mm
.....	remotely adjustable
Water Supply	twin hydraulically driven water pumps
.....	0-200kW per pump

Forward jet tool configuration	Jet tool held in manipulator
Water Supply	Fed from main jet tool

OPTIONAL TRACK MODULES

Construction	Bolt on modules with hydraulically driven
.....	plastic track plates on standard running gear
Speed	0 to 2km/hr

CABLE TOOLS PACKAGE

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

OPTIONAL DREDGE SYSTEM

Configuration	Twin leg aft mounted eductor
.....	with hydraulically driven dredge pump
Dredge Depth	0 to 2.0m standard

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 Pod	One atmosphere pressure vessel
Depth Rating	3000m
Communication	Fibre Optic MUX
Vacuum Port	Connection point for vacuum
.....	checking of seals in faceplate
Spare channels	built in spare RS232,
.....	RS485, Ethernet 110V, 24V

SUBSEA SURVEILLANCE

Cameras	up to 8 cameras
.....	(HDTV optional)
Lamps	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 (Optional)	Tritech/ Kongsberg/ Multi-beam
Acoustic Positioning (Optional)	to suit vessel

OTHER EQUIPMENT

Control System	20ft ISO container
.....	Active chair or console layouts
.....	SMD DVECS system
Power System	housed in 10ft ISO container
A-Frame	15te SWL; Sea State 6
Docking Frame	15te SWL; Sea State 6
Umbilical Winch.....	typically 3500m of umbilical on a
.....	15te SWL winch; suitable for Sea State 6
Deck HPU	2 x 110kW