



# Q-TRENCHER 800



ENGINEERING  
EXCELLENCE  
UNDERWATER

# Q-TRENCHER 800

The Q-Trencher 800 ROV provides high power trenching capability for the burial of cables, umbilical and small diameter pipes up to 3m deep. The ROV uses variable high flow jetting to optimise the trenching to suit the conditions. It can also deploy a rear eductor to enhance burial of large diameter product. With its high thrust, the ROV can perform 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.

## 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.

## FEATURES

- 800hp of installed power
- up to 3m max trench depth capability
- Variable high flow jetting for optimized trenching
- Up to 4 knot swimming for survey
- 2500m maximum water depth
- Optional rear eductor for large product burial
- Optional track modules for hard ground trenching
- Cable maintenance tools package incl. manipulators, cable cutter and clamp
- DVECS robust distributed control platform provides reliable, ergonomic operations and good diagnostics ergonomic operations and diagnostics
- Proven Curvetech™ components throughout
- Range of SMD designed A-frame based LARS for standard and high sea states

## CONTACT US

### SMD

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# Q-TRENCHER 800

## SYSTEM SPECIFICATIONS

### GENERAL

Depth rating	2500msw
Dimensions	
Length	5.0m
Width	4.2m
Height	3.3m
Weight in air (skids)	17te
Submerged Weight	buoyant
Max Bollard Pull	2100kg

### PERFORMANCE

Vertical	15 knots
Fore / Aft	40 knots
Lateral	20 knots
ROV Power	800hp (600kW) total: 2 x 400hp (300kW) 4-pole Curvetech™ HPUs

### THRUSTERS

Vectored / Forward	4 x Curvetech™ HTE500
Side	2 x Curvetech™ HTE500
Vertical	4 x Curvetech™ HTE500

### 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) and cable depressor with extended swords
Trench Depth	0 to 2.0m standard 0 to 3.0m with extended swords
Width Control	50mm to 400mm remotely adjustable 250 to 600m min pipe trenching mode
Water Supply	twin hydraulically driven water pumps Variable from 0 to 1600m <sup>3</sup> /hr and 4 to 6bar
Forward jet tool configuration	Twin jet device Above seabed, jets down either side of product
Water Supply Deployment	500m <sup>3</sup> /hr Hydraulically actuated

### OPTIONAL TRACK MODULES

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

### 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

### CABLE TOOLS PACKAGE

Manipulators	2 x 7 function
Cable Cutter	up to 100mm
Cable Clamp	up to 100mm

### SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel 2500m
Depth Rating	2500m
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	25te SWL; Sea State 5 / 6
Docking Frame	25te SWL; Sea State 5 / 6
Umbilical Winch	suitable for Sea State 5 / 6
Deck HPU	2 x 150kW

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