

## THE WORLDS MOST RELIABLE CABLE MAINTENANCE ROV

The SMD 400hp trenching ROV set the new benchmark when it was first introduced in the late 90s. Using high power to provide effective cable maintenance and other specialised tasks, it is purpose designed to provide maximum jetting and thrust performance. With further development and refinement the ROV continues to boast a reputation for reliability and ease of maintenance. It has become an essential part of any suite of cable installation vehicles. SMD offer a turnkey cable maintenance solution including LARS and umbilical system.

### FEATURES

- Variable 350hp high pressure or high flow jetting swords for optimised trenching
- Optional eductor for large product burial or de-burial
- Cable depressor for effective burial
- Cable tools package incl. manip, cable cutter & clamp
- Comprehensive instrumentation and surveillance



### 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 preference and performance requirements.

# QTRENCHER / 400

GENERAL	
Depth rating	3000msw
Dimensions	
Length	4.1m
Width	3.2m
Height	2.8m
Weight in air (skids)	9.5Te
Submerged weight	Buoyant (with skids)
Max bollard pull	1500kg
PERFORMANCE	
Vertical	1.5 knots
Fore/aft	3.5 knots
Lateral	3.0 knots
ROV power	400hp (300kW)
THRUSTERS	
Vectored/forward	4 x Curveteck <sup>®</sup> HTE500
Vertical	4 x Curveteck <sup>®</sup> HTE430
MECHANICAL	
Construction	High strength aluminium space frame
Buoyancy	Syntactic foam with macrospheres
JETTING SYSTEM	
<b>Main jet tool</b>	
Configuration	Twin leg jet tool with fwd/downward facing jets (sub seabed) and cable depressor
Operating Pressure	5 or 15 bar
Trench depth	0 to 1.5m standard
Width control	100mm to 400mm remotely variable
Water supply	Twin hydraulically driven water pumps absorbing up to 300hp free fly & 350hp tracked mode
<b>Forward jet tool</b>	
Configuration	Twin jet device (above seabed) which jets down either side of product
Trench Depth	Up to 2.0m (soil dependent)
Water Supply	Up to 500m <sup>3</sup> /hr
Deployment	Hydraulically actuated

OPTIONAL DREDGE SYSTEM	
Configuration	Single leg eductor system with integral agitation jets mounted in place of jet tool
Dredge depth	Up to 1.5m
Max. particle size	50mm dia.
Backwash system	Valve fitted to each outlet
Water Supply	Up to 350hp (with tracks) Water supply can be continuously varied
CABLE TRACKING PACKAGE	
Cable detection and survey	
Tone detection	TSS350
Pulse detection	TSS440
Other	O/A sonar & cameras
TSS440 deployment	Actuated frame Deck adjustable height
Multi-pass	Second or multiple passes can be made along the cable as necessary
CABLE TOOLS PACKAGE	
Manipulators	2x7ftn
Cable cutter	Up to 100mm
Cable clamp	Up to 100mm
SUBSEA ELECTRONICS	
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	Kongsberg/Tritech
Gyro	Fibre optic
HID lamps (optional)	Up to 2 x 400W
Profilers (optional)	Kongsberg/Tritech/Multibeam
OTHER EQUIPMENT	
Control & power system	20ft ISO container SMD DVECS II or DVECS S system
LARS	12Te SWL sea state 6 A frame
Umbilical system	12Te Umb Winch & Snatch limiter
Deck HPU	2 x 110kW
Optional lightweight tracks	Bolt on steel chassis tracks