

HIGH POWERED INSTALLATION AND MAINTENANCE ROV

The QTrencher (QT) 1000 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 or high pressure jetting to optimise the trenching to suit the conditions. It can also deploy a rear eductor or backwash sword 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.

FEATURES

- Variable 930hp high flow or pressure jetting for optimised trenching
- Optional rear eductor for large product burial & track modules for hard ground trenching
- Cable maintenance tools package including manipulators, cable cutter and clamp



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 / 1000

GENERAL	
Depth rating	2000msw
Dimensions	
Length	5.5m
Width	5.4m
Height	3.3m
Weight in air (skids)	22Te
Submerged weight	Buoyant (with skids)
Max bollard pull	2100kg
PERFORMANCE	
Vertical	1.5 knots
Fore/aft	3.5 knots
Lateral	2.0 knots
ROV power	1000hp (750kW)
THRUSTERS	
Forward	4 x Curvete [®] HTE500
Side	2 x Curvete [®] HTE500
Vertical	4 x Curvete [®] HTE500
MECHANICAL	
Construction	High strength aluminium space frame
Buoyancy	Syntactic foam with macrospheres
JETTING SYSTEM	
Main jet tool	
Configuration	Main twin legged jet tool with forward/downward facing jets (sub seabed) and cable depressor
Operating pressure	5 or 15bar
Trench depth	0 to 2.0m standard 0 to 3.0m with extended swords
Width control	50mm to 400mm remotely variable
Water supply	Twin hydraulically driven water pumps absorbing up to 800hp free fly & 930hp tracked mode
Forward jet tool	
Configuration	Twin jet device which sits above the seabed and jets down either side of product
Trench Depth	Up to 1.0m (soil dependent)
Water Supply	Up to 1000m ³ /hr
Deployment	Hydraulically actuated
OPTIONAL TRACK MODULES	
Construction	Bolt on modules with hydraulically driven plastic track plates and standard running gear
Speed	0 to 2.0km/hr

OPTIONAL DREDGE SYSTEM	
Configuration	Twin legged aft mounted educator with hydraulically driven dredge pump
Dredge depth	0 to 2.0m standard
CABLE TRACKING PACKAGE	
Cable detection and survey	
Tone detection	TSS350
Pulse detection	TSS440
Other	O/A sonar & cameras
TSS440 deployment	Hyd. actuated frame
CABLE TOOLS PACKAGE	
Manipulators	2 x 7 ftm
Cable cutter	Up to 100mm
Cable clamp	Up to 100mm
SUBSEA ELECTRONICS	
Electronics pod	1 atmosphere pressure vessel
Depth rating	2000m
Communication	Fibre optic MUX
Vacuum port	Connection for checking seals
Spare channels	RS232, RS485, Ethernet
SUBSEA SURVEILLANCE	
Cameras	Up to 8 (HDTV optional)
Lamps	up to 12 x 250V (2 x 400W HMI optional)
Pan and tilt	Up to 6 24V P&T units
Sonar	Kongsberg/Tritech
Gyro	Solid state/fibre optic
Doppler velocity log (optional)	Workhorse navigator
Profilers (optional)	Kongsberg/Tritech/Multibeam
Acoustic Positioning (optional)	To suit vessel
OTHER EQUIPMENT	
Control & power system	20ft ISO container Active chair or console layouts SMD DVECS II or S system
Power System	Housed in 10ft ISO container
LARS	Sea state 5 A frame with umbilical lift Option for sea state 7 with cursor deployment
Umbilical winch	Sea state 5 umbilical lift Option for Sea state 6 or 7 with slack accumulator
Deck HPU	2 x 150kW

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