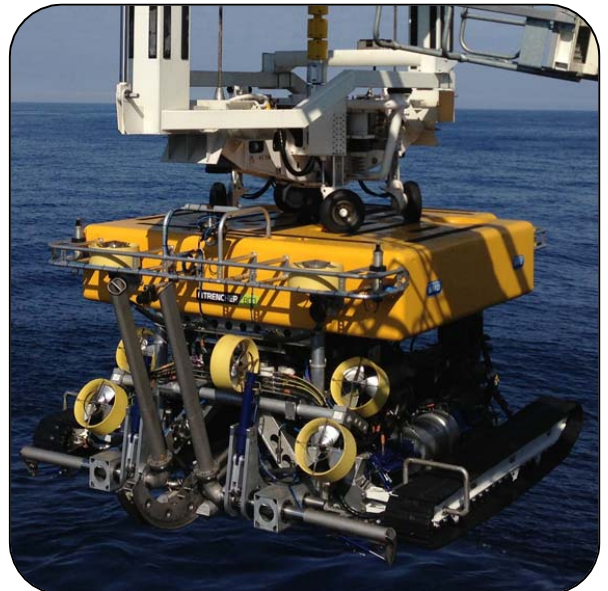


HIGH POWERED INSTALLATION AND MAINTENANCE ROV Q-TRENCHER 800

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.

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
- 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..... 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 1.5 knots
 Fore / Aft 4.0 knots
 Lateral 2.0 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
 Trench Depth 0 to 2.0m standard
 0 to 3.0m with extended swords
 Width Control 50mm to 400mm remotely adjustable
 250 to 600mm in pipe trenching mode
 Water Supply twin hydraulically driven water pumps
 Variable from 0 to 1600m³/hr and 4 to 6bar

Forward jet tool configuration Twin jet device
 Above seabed, jets down either side of product
 Water Supply 500m³/hr
 Deployment 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
 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