

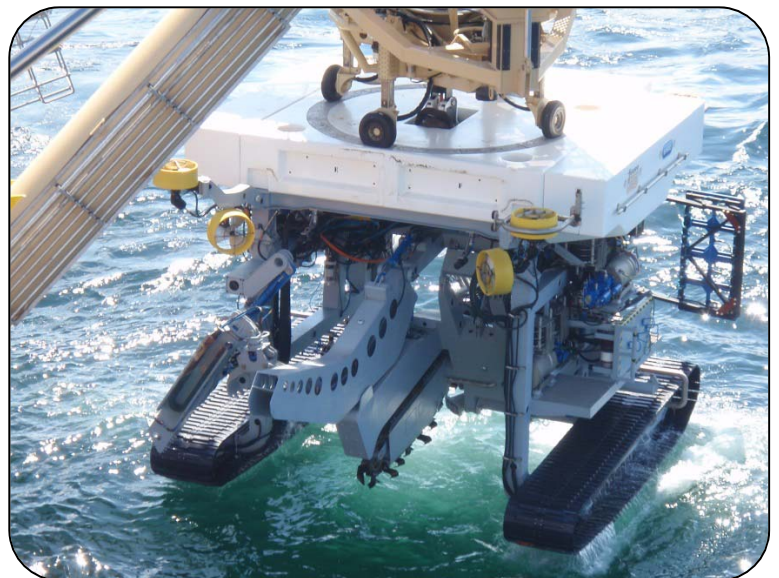
THE WORLD'S LARGEST FREE-SWIMMING TRENCHER RANGE

Q-TRENCHER 1400

The Q-Trencher 1400 is a high powered free-swimming jet trencher, with optional track drive for enhanced burial capability and optional tracked skids for bespoke tool deployment. With more than 1.0 megawatt of total power, the trencher delivers 0.75 megawatts of variable high pressure jetting power for trenching and up to 200kw of LP water jetting for trench backwash, eduction or trench collapse. The complete system spread sets a new standard in severe weather deployment operation, with sea state 6 as standard and able to deploy the ROV in buoyant or heavy mode up to 18Te, allowing deployment of chain cutters and drill

FEATURES

- 1400hp (1050kW) of installed variable power
- 3.0m max jet trenching depth capability to 100KPa
- Optional 2.0m max chain trenching depth capability to 400KPa
- Optional 1.0m max chain trenching depth capability to 10MPa
- 200kW rear eductor/backwash/backfill system
- 3000m maximum water depth
- True sea state 6 launch operation
- Sensitive free-swimming control for survey
- DVECS II™ control 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.

SYSTEM SPECIFICATIONS

GENERAL

Depth rating.....	3000msw
Dimensions	
Length	7.8m
Width	5.0m
Height	6.0m
Weight in air (skids)	40te
Submerged Weight	Neutral
Max Bollard Pull.....	1000kg

PERFORMANCE

Vertical	2.0 knots
Fore / Aft	3.0 knots
Lateral	2.0 knots
ROV Power	1050kW total

THRUSTERS

Vectored / Forward	4 x Curvetech HTE500
Vertical	4 x Curvetech HTE500
Pitch and roll capability	10-15°

MECHANICAL

Construction	High strength aluminium space frame
Buoyancy	Syntactic foam with macrospheres

JETTING SYSTEM

Configuration.....	Twin leg jet tool with constant angle
Swords	2.0 & 3.0m with switchable sections
Trench Depth	3.0m
Jetting pressure	Variable 7-15bar
Water pumps.....	2 x 375kW
Water Supply	1200 – 2400m ³ /hr

HYDRAULIC SYSTEM

Installed power	2 x 150kW
Cylinders	Smart heavy duty marine type
Valves.....	Directional and counterbalance
Valve packs	Stainless steel, oil compensated
Manifolds, pipes and fittings	Stainless steel
Hoses	Multi-spiral flexible hoses

SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel
Depth Rating	3000m
Test pressure	1.25x working pressure
Data transmission	Fibre optic multi-plexer

SUBSEA SURVEILLANCE

Cameras	2x colour zoom
.....	4x enhanced low light CCD
.....	2x mini observation
Lamps	12x dimmable LED subsea lamps
Pan and Tilt	5x robust 24V P&T units
Sonar	Tritech/ Kongsberg
Gyro	Fibre Optic
Doppler Velocity Log (Optional)	Workhorse Navigator
Profilers (Optional)	Tritech/ Kongsberg/ Multibeam

SUBSEA INSTRUMENTATION

Heading	FO Gyro
Altitude	Profiling sonars
Pitch and roll.....	Inclinometer
Load	Shear pin load cell
Displacement	In-cylinder transducer
Distance	Rotary encoder
Pressure	Absolute and differential
Position	Proximity sensor
Hydrophone.....	Benthos

OTHER EQUIPMENT

Control System	20ft ISO container
Power System	2x 20ft ISO containers
A-frame handling system.....	2-cylinder, narrow angle
.....	40-45te SWL, sea state 6
Umbilical system.....	3200m umbilical
.....	25te SWL winch, sea state 6
Deck HPU	460kW
Spares package	Optional packages available