



Q-TRENCHER 1400/1600



ENGINEERING
EXCELLENCE
UNDERWATER

Q-TRENCHER 1400/1600

The Q-Trencher 1400/1600 is a compact, versatile, high powered multi-skid tooling, tracked trencher. With 1.2 megawatts of total power the trencher can provide rapid progress jetting in sands and/or come equipped with a chain cutter to work in harder ground conditions.

This highly capable trencher is the smallest vehicle in our range capable of chain cutting mode, further extending the ground conditions the trencher can tackle.

The complete system spread sets a new standard in severe weather deployment, for operations up to sea state 6.

FEATURES

- Modular cassette system enables jetting and chain cutting capability without the need to return to shore
- Jetting configuration enables superior performance in sands and clays for reduced operational time
- Low submerged weight enables excellent manoeuvrability for accurate subsea positioning, without sacrificing tooling power and capability
- Enables trenching right up to turbine foundation, reducing requirement for methods such as rock dumping and mattresses
- Purpose built LARS allows safe operations into 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.

CONTACT US

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Q-TRENCHER 1400/1600

SYSTEM SPECIFICATIONS

GENERAL	1400	1600
Depth rating		
Chain cutter	500msw	500msw
Jetter	2000msw	2000msw

Dimensions*

Jetter		
Length	7.8m	10.4m
Width	6.3m	6.7m
Height	5.0m	5.2m
Weight in air	38Te	45Te
Submerged weight	<1.5Te	<1.5Te

Chain cutter		
Length	8.0m	9.6m
Width	6.3m	6.7m
Height	5.0m	5.2m
Weight in air (up to)	30Te	45Te
Submerged weight	15Te	18Te

Max. bollard pull	3.0Te	
Horizontal	-	1.5Te
Vertical	-	3.0Te

PERFORMANCE

Vertical	2.0 knots	2.0 knots
Fore / Aft	3.0 knots	3.0 knots
Lateral	2.0 knots	2.0 knots
Total power	1050kW	1200kW

MECHANICAL

Construction	High strength steel chassis	
Buoyancy	Syntactic foam with macrospheres	

JETTING SYSTEM

Configuration	Twin leg jet tool with constant angle	
Swords	2.0 & 3.0m with switchable sections	
Width control	100mm to 400mm remotely variable	
Jetting pressure	Variable 7-15bar	
VSD water pumps	2 x 375kW	2x400kW

CHAIN CUTTING SYSTEM

Configuration	450mm twin strand cutting chain, clay picks and depressor	
Max trench depth	2.0m	2.3m
Installed power	300kw	400kW
Dredge pump	75kW	75kW
Cable handling	Cable arms and bellmouth	

HYDRAULIC SYSTEM

Installed power	2 x 150kW	2x200kW
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SUBSEA ELECTRONICS

Electronics Pod	One atmosphere pressure vessel
Depth Rating	2000m

SUBSEA SURVEILLANCE

Comprehensive instrumentation and surveillance suite, typically comprising:

Cameras
Lamps
Pan & tilt
Fibre Optic

THRUSTERS

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

POWER AND CONTROL

Control System	20ft container
Power System	1x20ft 1x12ft container
Umbilical system	Up to 2300m umbilical 25te SWL winch, sea state 6

LARS

A-frame handling system	2-cylinder, narrow angle 43-48Te SWL, sea state 6
Deck HPU	460kW

ARTEMIS™ CABLE TRACKING

Exclusively available to purchase with SMD trenching systems

Detection Range	
Passive	up to 10.0m
Active	up to 5.0m
Vertical measurement accuracy	+/-5% plus 5cm
Depth rating	2000m
Refer to Artemis technical data for more information	

OPTIONS

Backfill / backwash / eductor system for jetting skid
Forward jetting swords for jetting skid
Drill skid
Cutting dredge skid
Core drilling skid

AFTER SALES SERVICE

Operational personnel
Technical support
Service agreements
Spares packages

*All dimensions are approximate and subject to final design and configuration

** All possible configurations of this product do not exceed this weight

***Available to hire via SMD - please enquire via services@smd.co.uk

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