

THE WORLD'S LARGEST FREE-SWIMMING TRENCHER RANGE

Q-TRENCHER 1600

The Q-Trencher 1600 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 1.2MW of total power, the trencher delivers 800kW of variable high pressure jetting power for trenching and up to 300kW of LP water jetting for trench backwash, education or trench collapse. The complete system spread sets a new standard in severe weather deployment operation, up to 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 systems.

FEATURES

- 1600hp (1200kW) of installed variable power
- 3.0m max jet trenching depth capability to 100KPa
- 300kW rear eductor/backwash/backfill system
- Optional 350kW, 2.0m chain trenching depth capability
- Optional 350kW, 1.2m wheel cutter trenching depth capability
- 3000m maximum water depth
- Up to sea state 5/6
- Sensitive free-swimming control with skids for soft ground trenching and survey
- DVECS II™ control system
- 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.....	2000m
Length (jetting mode)	7.8m
Width	6.3m
Height	5.0m
Weight in air (jetting mode)	42te
Submerged weight	4000kg
Max bollard pull.....	1000kg

PERFORMANCE

Vertical	2.0 knots
Fore / aft	3.0 knots
Lateral	2.0 knots
ROV power	1600hp (1200kW) total

THRUSTERS

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

MECHANICAL

Chassis	High strength steel chassis
Buoyancy	Syntactic foam with macro-spheres

JETTING SKID

Configuration	Twin leg jet tool with constant angle
Swords	2.0 & 3.0m
Trench depth	up to 3.0m
Jetting pressure	Variable 10-15bar
Water pumps	2 x 400kW
Water supply	2400m ³ /hr

BACKFILL / BACKWASH / EDUCTOR SYSTEM

Configuration	Rear mounted with parallel function
Trench depth	from 0-3.0m

CHAIN CUTTER SKID

Configuration	450mm twin strand cutting chain
.....	Clay picks and depressor
Trench depth	2.0m
Skid power	400kW
Dredge pump	75kW
Cable handling	Cable arms and bellmouth

WHEEL CUTTER CASSETTE

Configuration	Wheel type cutter
.....	with point attack picks
.....	Depressor
Trench depth	400 – 1200 mm
Wheel drive.....	400kW
Cable handling	Cable arms and bellmouth

SUBSEA ELECTRONICS

Electronics pod	One atmosphere pressure vessel
Depth Rating	3000m

TYPICAL SUBSEA SURVEILLANCE

Cameras	Capacity for up to 8 cameras
Lamps	12x LED subsea lamps
Pan and tilt	5x 24V P&T units
Sonar	Obstacle avoidance
Gyro	Fibre optic
Profilers (optional)	Multi-beam

CABLE TRACKING PACKAGE

Cable and detection survey	
Tone detection	TSS350
Pulse induction.....	TSS440
Other	O/A sonar and cameras

POWER AND CONTROL

Control cabin	Housed in 20ft ISO container
Control system.....	DVECS II™
Power system	Housed in 1x 20ft & 1 x 12ft ISO container

LARS

A-frame handling system.....	45te SWL, sea state 5/6
Umbilical system.....	25te SWL winch, sea state 5/6
Deck HPU	2 x 230kW