



PHAROS

OFFSHORE GROUP

SPECIFICATION SHEET FOR
Q1000 JET TRENCHER

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Q1000 Specification Sheet

GENERAL	
Operating Depth	10 - 1,000m
Dimensions (L*W*H)	Skid mode: 5.4m * 5.5m * 3.3m
	Track mode with backfill tooling or eductor: 6.5m * 5.5m * 3.3m
	Product tracker (eg. TSS440) add 2.5m to length
Width	5.0m
Height	3.1m
Total Mass	In Air - 24t Tracks/ 22t Skids In Water - 1.5t Tracks/ Neutrally buoyant on Skids
Ground bearing capacity (min.)	5kPa (track mode) 1kPa (skid mode)
Total Power	1000hp (750kW) provided by two 4-pole electric motors (HPU)
Thrusters	10 x Curveteck HTE500 Vertical: Up to 2.0 knots Fore/aft: Up to 3.0 knots Lateral: Up to 2.0 knots Max. bollard pull: 2800kg in free swimming mode
Tracks	Tractive area: 4m ² Speed: 50-2000m/h Max. bollard pull: 600kg
Pitch / Roll (max.)	Pitch: 15° Roll: 10° Combined: 15°

NAVIGATION SUITE	
Cameras	4x Colour Camera 1x Black and White Camera 1x Inspection Colour Camera
Altimeter	Tritech PA500 - or similar
Depth Sensor	Digiquartz - or similar
Sonar	Tritech Super Seaking OA Sonar - or similar
Profiler	Dual Tritech Super Seaking DFP - or similar
Gyro	CDL TOGS Fiber Optic Gyro
Lamps	8 x Lamps (dimmbable)

UMBILICAL WINCH	
SWL	25Te (up to sea state 6)
HPUs	2x 150kW variable displacement
Operating Speed	40m/min (max)
Umbilical	1,600m fitted, 2,200m (max)
Umbilical Management	Snatch limiter

A-FRAME	
SWL	32t (up to sea state 6)
Type	Twin leg, Twin cylinder, Twin line
Arc	30° inboard to 50° outboard
Certification	Lloyds Register of Shipping code for Lifting Appliances in a Marine Environment Chapter 3

JETTING SYSTEM	
Water Pumps	2 x 350 kW hydraulically driven
Max Water Flow	1250 m ³ /h
Pressure	0-15 bar
Twin Jetting Swords	2.0m / 3.0m options
Trench depth	0-2m (2m swords) 1.5-3m (3m swords)
Product Diameter	0.75m (max)
Swords Separation	Variable: 0.10m - 0.55m Optional: 0.59m – 0.93m 0.35m travel
Ground Clearance	Configurable 0.60m - 1.04m
Cable Depressor	3m MBR c/w cable detect sensors Applied cable tension: 0-800kg
Eductors (optional)	Each pump 370 cu.m/hr capable of removing 110 cu.m/hr of spoil at an assumed concentration of 30%
	Adjustable from 0-2m Blockage sensors Backlash function
	Leg separation: Variable: 0.25m - 0.60m
Backfill tooling (optional)	

SOIL TYPE	
Sand	Fine to Coarse, loose to very dense
Clay	1-100 kPa
Subject to further assessment.	

OPTIONAL SURVEY EQUIPMENT	
TSS440 or TSS350	
Multi Beam Echo Sonar (MBES)	
Narrow Beam Imaging Profiler (NBI)	
Survey Gyro	
Bathymetry System	
Multiplexer	

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