FET | Perry

Perry® XT1500
Trencher

Perry® XT1500 Trencher – Cable Burial ROV

Depth Rating	1000 MSW
Power	1500 HP
Control System	ICE Real Time Control System with GB Telemetry & Graphical Diagnostics
HP & LP Pressure & Flow Jetting System	Variable
Burial Capacity	Up to 3.0 m Burial
Maximum Opening Between Tool Swords	1220 mm
Length (excluding tools)	9010 mm
Width (including tracks)	6100 mm
Height (tracks down)	3910 mm
Vehicle Air Weight	32000 kg
Vehicle Water Weight	300 kg - 3000 kg (Skid / Track Mode)

Specifications

Basics

Length:	9010 mm
Width over buoyancy:	6010 mm
Width over tracks:	5600 mm
Height:	3900 mm
Depth Rating:	1000 m
Weight in Air (Tracks):	32000 kg
Weight in Air (Skids):	29000 kg
Weight in Water (Tracks):	3000 kg Max
Weight in Water (Skids):	300 kg Nominal
Thrusters Horizontal:	4 x 500 mm Ø
Thrusters Vertical:	4 x 500 mm Ø

Maximum Speed (Free Flying)

Forward:	2.5 Knots
Lateral:	2.0 Knots

Maximum Speed (Tracked)

Forward:	2500 m/hr

Track System

Underwater Tracks:	Hydraulic Driven (2)
Minimum Soil Strength:	>3.5 kPa Shear

Auto Functions

Auto Heading Control:	Automatic to ± 2.0°
Auto Tracking Control:	Automatics to ± 2.0°
Depth Control:	Automatic to ±150 mm
Altitude Control:	Automatic to ±150 mm

Trenching

Product Size:	150 – 915 mm Ø
Sword Separation:	410 – 1220 mm Ø

Jetting Tools

Cable Burial Tool:	1 m, 2 m & 3 m
Depressor:	1 m, 2 m & 3 m

Water System

LP (x2) or HP (x2) water pumps driven by variable hydraulic motors

Total HP Output:	10,000 Lpm @ 20 bar max pressure
	24,000 Lpm @ 6 bar
Total LP Output:	17,000 Lpm @ 6 bar max pressure
	70,000 Lpm @ 1 bar max flow

Hydraulic System

Thruster Manifold	2 x 12 Station Prop NG3
General Function Manifolds	4 x 12 Station Prop NG3

Camera & Lighting System

Low Light Camera (x1)
Colour Cameras with Focus and Zoom (x3)
Monochrome Inspection Cameras (x3)
LED Lights, 2 per dimming circuit standard (x16)
4 off Hydraulic Pan & Tilt Units

Equipment Fit

- Gyro / Fluxgate Compass
- Pitch / Roll Sensor
- Digiquartz Depth Sensor
- Sonar (Dual Frequency)
- Altitude Sensor
- Product Location / Tracking System (TSS 440/350)
- Responders (Provision for 2 off)
- Manipulators (2 off TA40 Rate)
- Optional Emergency RDF Beacon
- Optional Emergency Strobe Flasher
- Optional Profiler Dual Frequency
- Optional DVL (Auto Positioning)

Sensors

- Hydraulic Pressures and Temperatures
- LP & HP Water Pressure
- Water Detection and Insulation Monitoring
- Compensation Levels
- Track Speed and Pressure
- Burial Tool Angles, Width and Forward Loads
- (Optional) Depressor Angles, Load and Cable Present

Electrical Power System

- Variable Speed Drive (VSD) capable of driving two 281kW / 375 HP Motors, Used to drive the HP water pumps. Power system capable of driving one 281kW / 375 HP Motor and two 150kW / 200 HP Motors used for the LP water pumps and hydraulic system.

Control Systems

- Utilizes the evolutionary ICE Integrated Control Engine
- Fully redundant Windows based HMI Computers
- Dedicated real-time controllers
- Intuitive Graphic User Interface (GUI)
- Advanced graphical interactive diagnostics
- User compatible GUI
- Ergonomic pilot / co-pilot control consoles & touch screen control interfaces
- 4 x 40" HD Plasma video wall

Data Transmission

- Single mode fibre optic video and data multiplexer
- Real-time video channels available (8)
- Full Duplex RS232 @ 115 kbps data channels (4)
- Full / half Duplex R485 / 422 / 232 channels (4)

Additional Tool Equipment

- Cable Cutter
- Cable Gripper
- Dredge Pump

Launch & Recovery System

Capability	Sea State 6
Capacity	3300 m
Outreach	3.8 m
Lifting Speed	30 m / min on bottom layer