XLX^{EVO} II

Heavy-Duty Work-Class ROV

The Perry® XLX EVO II is a compact, heavy-duty work-class hydraulic ROV, complementing the Perry XLX-C series of compact heavy-duty work-class ROVs.

The Perry XLX EVO II ROV system represents the latest evolution in the highly successful Perry XL series. The XLX EVO II features significantly enhanced performance across the full range of demanding intervention and survey tasks without compromise to the outstanding reliability for which the XL series of vehicles is renowned throughout the world.

Depth Rating	3000 msw (option 4000 msw)
Power	200 hp (150 kw)
Through Frame Lift	3000 kg
Control System	ICE® Unity Real Time Control System with GHz Optical Link, Ethernet Telemetry and Graphical Diagnostics
Control Modes	Heading, Heading Survey, Depth, Altitude, Park, Dynamic Positioning with mid-water Station Keeping, Waypoint Follow, Pitch, Roll, Cruise and Dynamic Braking
Payload Capacity	400 kg minimum

Video, Serial, Power & Fibre Optic Channels

- Standard Definition Real-time Composite Video Channels (8)
- Individually dimmable light channels (6 typ)
- Dedicated serial and power channels for HPU, Valve Packs, Gyro, Depth, Altimeter/DVL, OA Sonar, Manipulator, Responder trigger
- Spare RS232/RS485 Serial Channels (7 typ)
- Single-mode Fibres: to Vehicle (2), to TMS (1)
- Spare CWDM Channels (4+8)
- Current Monitoring & Protection on each Power Channel
- 120 Vac 20 A dedicated tool supply

Control System

- Utilizes the revolutionary ICE® Unity Integrated Control Engine
- Intuitive Graphic User Interface (GUI)
- Advanced interactive graphical diagnostics
- User configurable GUI
- Ergonomic pilot/co-pilot control chairs combining touch screen and physical switch control interfaces
- Video Wall (As specified by client)

Typical Surface Power Distribution

- 240 kVA Transformer for Vehicle Hydraulics
- 8.5 kVA Transformer for Vehicle Electronics (7.4 kVA at ROV)
- 15 kVA Transformer for TMS HPU
- 1.5 kVA Transformer for TMS Electronics (0.9 kVA at TMS)
- Ground fault detection circuits
- Deck cable interface
- CB, O/L and current/voltage sensors/meters

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Dimensions & Performance

Length:	3605 mm
Width:	1905 mm
Height:	2105 mm
Depth Rating:	3000 m (4000 m option)
Weight in Air:	5300 kg
Payload Capacity:	400 kg minimum
Through Frame Lift:	3000 kg
Fwd Lower Load Capacity:	250 kg at 250 mm
Fwd Upper Load Capacity:	250 kg at 500 mm
Aft Load Capacity:	300 kg at 500 mm
Sides Load Capacity:	150 kg at 250 mm

Power Pack:	200 hp (150 kw)
Main Hydraulic System:	320 l/min @ 240 bar (60 Hz)
Thrusters Horizontal:	4 x 380 mm
Thrusters Vertical:	4 x 300 mm
Bollard Pull-Nominal (with 60 Hz supply)	
Forward:	1050 kgf
Lateral:	1050 kgf
Vertical (up/down):	940 kgf

Auto Functions (Heading, Depth, Altitude, Park, Dynamic Position)

Heading Control:	± 0.5°
Pitch & Roll Control:	± 2.0°
Depth Control:	±100 mm
Altitude Control:	±100 mm
Auto Position	±100 mm

(Achievable with suitable sensor e.g. SPRINT-Nav 300)

Standard Equipment

- Cameras — Up to 8 Cameras (EMCCD/SIT equiv./near SIT low light B/W, colour, zoom/fixed, manipulator, light ring, HD (3 max), etc.)
- Lights — Up to 6 individual dimmable lights.
- Pan & Tilts — Hydraulic SA-A-5735-MAS (2 fwd.)
- Obstacle Avoidance Sonar or Multibeam Acoustic Camera
- Heading, Pitch & Roll Sensor
- Depth Sensor Digiquartz (±0.01%)
- Doppler Velocity Log
- Main Valve Pack — Bidirectional 10-Station (12 l/min, each proportional flow, remote pressure selection 2 banks of 5 stations)
- 7 Function Manipulator (master slave control)
- 5 Function Grabber
- RF Beacon, Emergency Xenon Flasher

System Options

- Auxiliary Hydraulic System — 238 L/min @ 240 bar, 60 Hz Option 200 L/min @ 260 bar, 60 Hz
- Aux. Valve Pack — Bidirectional 10-Station (12 L/min, each proportional flow. Remote pressure selection - 2 banks of 5 stations)
- High Flow VP — Bidirectional 2 or 4-Station (25, 75, 140 or 150 L/min, each proportional pressure & flow, integrated torque tool control)
- Water Filter — Cardev (Main and Auxiliary)
- Survey JB — RS232/RS485 & power channels, camera channels, light channels, space for high bandwidth interfaces
- High speed data — Gigabit Ethernet/PECL Interfaces for IP cameras, Multibeam sonars, Profilers, etc.
- DVL
- INS (Sonardyne SPRINT-Nav standard option or consult FET for other units)
- Transponders / responders
- Workskids (not supplied)
  - Survey & Bathymetric suites
  - Suction Pile System
  - Jetting Module
  - Variable Ballast Module
  - Tool Interface Module
- Control
  - Integrated Control Chairs
  - Sonar Computer, Keyboard & Topside Processor Unit
  - 4 channel DVR unit (SD, HD or both)
  - Wired / wireless Deck Communications
  - 3D Training Simulator with General & User Specific Scenarios
- Tether Management System
  - Top hat or Garage
  - Type 4 up to 440m of Ø35mm / 750m of Ø27mm Tether
  - Type 5 up to 750m of Ø35mm / 1150m of Ø27mm Tether
  - Type 6 up to 1000m of Ø35mm / 1500m of Ø27mm Tether
- Main Umbilical
  - Armoured or soft
- Surface Handling
  - A-Frame / Cursor / Crane Jib-head Pulley
  - Winch

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