OWA TRITON XLS

Heavy Duty Work Class ROV

The Triton XLS is the ultimate in hydraulic heavy-duty work class remotely operated vehicles (ROV's). Designed and built to perform the most exacting operations in the harshest of environments for long periods, the XLS provides the necessary attributes to get the job done.

With an impressive 1,100kgf thrust performance, the XLS is in a class of its own. The XLS is particularly suited for heavy-duty construction support, where remote intervention tasks are required such as positioning of subsea structures, pipeline/umbilical connection, subsea construction, component change-out, valve operation, fluid injection, debris removal, plus many more down to 3000m depth rating. To enhance the capability of the XLS, it may be fitted with purpose built tooling skids. The vehicle may be fitted with a range of acoustic sensors to perform precision surveys and conduct salvage operations.

Deep-water operations are aided by the use of a complimentary top hat tether management system (TMS), designed to maximise the performance of the vehicle by eliminating the effects of umbilical drag and vessel motion.

The ROV and TMS are deployed and recovered using a Lawsons Engineering Ltd. Launch and Recovery System (LARS).
The reliability of Lawsons LARS are well established and since 1978 they have delivered over 120 Work Class ROV LARS systems worldwide.

Vehicle Specifications

Year Built	2007
Depth rating (msw)	3000m
Payload	250kg

Vehicle Power / Performance

Power	150HP (112kW)
Forward Thrust	1,100kgf
Lateral Thrust	1,100kgf
Vertical Thrust	1,130kgf
Forward Speed	3+ knots
Lateral Speed	2+ knots

Launch and Recovery System (LARS)

Type	A-Frame
Manufacturer	Lawsons Engineering
Classification Society	Lloyds
SWL	10,725kg

TMS and Tether

TMS	Perry
Tether Manufacturer	Nexans
Outer Diameter	35mm
Length (max.)	380m

Armored Umbilical

Manufacturer	NSW
Outer Diameter	40.5mm
Length (max.)	3000m
Decklead Length	10m

Survey Interface

Up to 32 channel survey junction box

Reson Seabat 8125 interface

Multi-beam Sonar interface

Fiber Optic Gyro (FOG) interface

Vehicle Configuration

Thruster Horizontal	4 x 380mm (Sub-Atlantic)
Thruster Vertical	4 x 300mm (Sub-Atlantic)
Control System	Perry Slingsby Systems Inc. Graphical User Interface (GUI)
Auto Functions	Heading, Depth, Altitude, Position
Telemetry / Video	Auto Fiber Switch to Spare Fiber 1 x Survey Fiber 8 x SD Video Channels
Cameras	1 x Color zoom camera 1 x SIT or low-light-level camera 2 x Black & white cameras
Pan / Tilt	2 x Tritech
Lights (max.)	12 x 250w dimmable lamps
Sonar	Tritech Super SeaKing
Depth	Digiquartz +/- 0.01%
Heading	Gyro/fluxgate (Watsons)
Altitude	RDI 600 DVL
Main Hydraulics	240bar @ 245lpm
IHPU Hydraulics	220bar @ 70lpm
IHPU Manifold	9 Station: 2 x remote flow/pressure
Port Manipulator	5 Function PSSI T60
Stb Manipulator	7 Function Schilling T4

Emergency Xenon Flasher and RF Locating Beacon

Control Container

Safe Area 20ft Control Cabin with a Pilot Control section and reporting desk. Fitted with electric power distribution panels, lighting, air conditioning, 19 inch racks & monitors.

Video Recorder (Main)	HDD / DVD Recorder
Video Recorder (Backup)	HDD/DVD Recorder

XLS 40 ROV System Dimensions (L x W x H x Wt.)

ROV	3.05m x 1.78m x 1.93m x 4,400kg
TMS	1.90m (dia.) x 2.18m x 3,000kg
LARS	8.00m x 2.90m x 9.22m x 17,000kg
Winch	3.00m x 2.92m x 3.74m x 33,000kg
Winch HPU	2.50m x 1.80m x 1.80m x 5,000kg
Control Container	6.06m x 2.44m x 2.75m x 12,000kg
Workshop Container	6.06m x 2.44m x 2.75m x 12,000kg
Spares Container	2.99m x 2.44m x 2.75m x 5,000kg
ROV Deck HPU	1.44m x 1.00m x 1.15m x 2,000kg

Power Requirements

440 VAC 3-Phase @ 60 Hz

Generator	600 kVA

Optional Equiment

75mm Cutter	38mm Cutter
Subsea Gyro (Survey Spec.)	
Pipe / Cable Tracker System	
Marine Growth Removal Equipment	
CP and UT Survey System	
Dual Head Profilers, Bathymetric Sensors	
Survey Skid, Boom Arms	
Dredge Pump, Water Jetting Tool	
Fluid Injection Skid, Hotstabs	
Class 1-4 Torque Tool	