

■ Triton XLS-29 & 30 Work-Class ROVs

Veolia Environmental Services Marine Services (VES) was the first to purchase two 4,000 meter (13,120 feet) Triton ROVs manufactured by Perry Slingsby.

The new 150HP Tritons include the proven technologies incorporated into the latest XLS series ROVs.

This is exciting news for VES, and it is equally exciting news for the entire marine services industry. These new series Tritons are part of our rapidly growing line of ROVs and offshore vessel inventory configured to meet the deepest underwater project challenges of our global customers.

XLS-29 & XLS-30 feature a heavy-lift, 1,200-meter TMS and are fitted with a Schilling seven-function T4 and a five-function Rig Master. The XLS-29 & XLS-30 are supported by a state-of-the-art Launch & Recovery System (LARS).

AT A GLANCE...

■ ■	DEPTH:	13,120 FT (4,000 M)
■ ■	PAYLOAD:	250 KG (RESERVE)
■ ■	POWER:	150HP
■ ■	WEIGHT:	9,800 LBS (4,445 KG)
■ ■	LENGTH:	120 IN (3,050 MM)
■ ■	WIDTH:	73 IN (1,850 MM)
■ ■	HEIGHT:	75 IN (1,890 MM)

Triton XLS-29 & XLS-30

DIMENSIONS

Length:	3,050 mm
Width:	1,850 mm
Height:	1,890 mm
Depth rating:	4,000 m
Weight in air:	4,445 kg
Payload capacity:	250 kg (Reserve)
Power pack:	150HP
Thrusters horizontal:	4 x 380 mm
Thrusters vertical:	4 x 305 mm
Bollard pull:	Nominal
Forward:	1,100 kgf
Lateral:	1,100 kgf
Vertical (Up):	1,050 kgf
Lift capacity:	3,000 kgf

- Standard Fit
 - Gyro/Fluxgate Compass
 - Pitch/Roll Sensor
 - Digiquartz Depth Gauge
 - Auto Functions (Heading/Depth/Altitude)
 - General Function Valve Pack – 10 Function
 - Lighting System (3,000 watts total)
- Interfaces For:
 - Manipulator (Left/Right)
 - Sonar
 - Hydraulic Tool Interfaces
- Telemetry
 - Realtime Video Channels (8)
 - Spare Fibre Optic Interface Card Slot
 - Customer Solenoid Valve Drivers (Pre-wired) (9)
 - Customer Digital Out (8)
 - Customer Digital In (8)
 - Customer Analog Out (8)
 - Customer Analog In (8)
 - Full Duplex RS232 at 115pbs Data Channels (4)
 - Full/Half Duplex RS485/422/232 at 115pbc
- Channels (4)
 - Voltage meters for input power and all switching
- Controls
 - Auto Fibre Switch To Spare Fibre
 - Power Distribution
 - 215 KVA Transformer for Vehicle Hydraulics (1)
 - 6.5 KVA Transformer for Vehicle Electronics (1)
 - 7.5 KVA Transformer for TMS-HPU (1)
 - Ground Fault Detection Circuits
 - Deck Cable Interface

AVAILABLE EQUIPMENT

- Four-Function Thruster Manifold (proportional valves) (2)
- Ten-Function Auxiliary Valve Manifolds
- High Flow Proportional Hydraulic Manifold
- Lighting System with five dimable circuits of 2 x 250W lights, plus one pair of 50W HID Lights
- Pan and Tilt – Standard (1), plus optional
- Tilt – Optional (1)
- High Accuracy Sensor, 0.1% over full scale for depth control (auto depth) and depth determination
- Pressure/Flow Control Manifold

SYSTEM OPTIONS

- Main Umbilical
 - Armored/Soft
- Surface Handling
 - 'A' Frame/Crane System
 - Winch to Customer Specification
- Control Cabin
 - Certified/Zone Rated
- Control Console
 - 2 to 5 Bay Ergonomically Designed
 - Graphics/Vision/Sonar Monitors
 - Video Overlay/Switching/Recording
 - Surface Communications
 - Manipulator Control
- Tether Management System
 - Tophat or Garage
 - 637 Meter Tether (Tophat)
 - 750 Meter Tether (Garage)
 - 4,000 Meter Depth Rating
- Workskids
 - Survey & Bathymetric Suites
 - Suction Pile
 - Variable Ballast
 - Jetting Module
 - Tool Interface Module

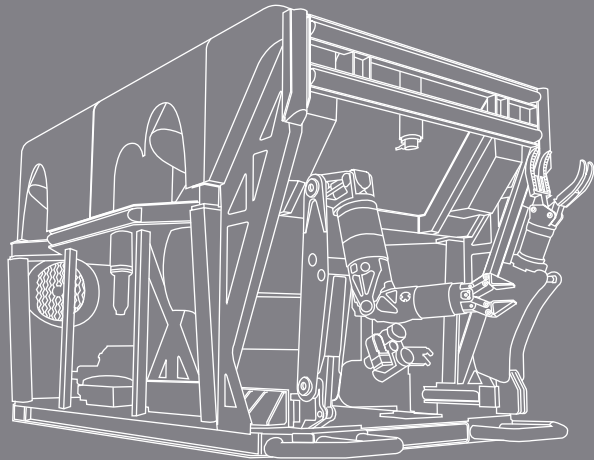
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■ Triton XLS-17 & 26 Work-Class ROVs

Veolia Environmental Services Marine Services (VES), an international marine contractor specializing in ROV and diving services, provides the Triton XLS-17 & XLS-26 in support of multiple oil and gas customers in the Gulf of Mexico. Both XLS-17 & XLS-26 are work-class, 150HP ROV systems purchased from Perry Slingsby. They feature a heavy-lift TMS and are rated to 3,000 meters (9,800 feet). Both are fitted with a Schilling seven-function T4 and a five-function Rig Master.

XLS-17 & XLS-26 are supported by a Dynacon 6022 Launch and Recovery System (LARS).

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■ ■	PAYLOAD:	250 KG (RESERVE)
■ ■	POWER:	150HP
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Triton XLS-17 & XLS-26

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 - Tool Interface Module

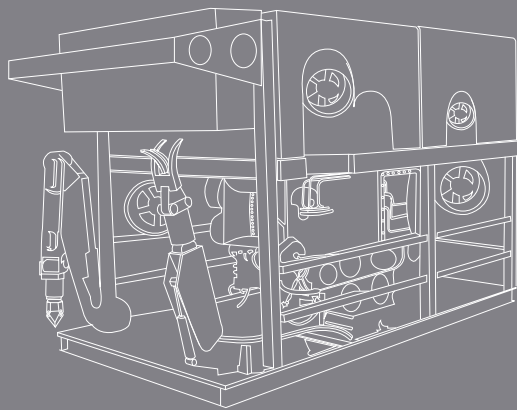
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■ Triton XL-05 & 25 Work-Class ROVs

Veolia Environmental Services Marine Services (VES) provides the Triton XL-05 & XL-25 work-class ROVs to multiple offshore oil and gas industry customers. XL-05 & XL-25, with their 100HP engines and multiple thrusters, are rated to a depth of 2,500 meters (8,200 feet) and are designed to meet the most challenging heavy work encountered in the offshore marine environment. They feature field-proven technology while achieving quantum improvements in performance. Both systems are equipped with high-resolution cameras for still images and video. XL-05 & XL-25 meet DNV design requirements for sea state 6 and the AODC electrical code.

Both the XL-05 & XL-25 offer one of the most comprehensive combinations of thrust, payload, through-frame lift and sensor interface capacity available in the industry. They will support virtually any offshore heavy work requirement, including drill support, construction support, platform cleaning and inspection, subsea cable burial/maintenance, deepwater salvage, remote tool deployment and subsea pipeline completion.

AT A GLANCE...

■ ■	DEPTH:	8,200 FT (2,500 M)
■ ■	PAYLOAD:	661 LBS (300 KG)
■ ■	POWER:	100HP
■ ■	WEIGHT:	6,933 LBS (3,145 KG)
■ ■	LENGTH:	125 IN (3,175 MM)
■ ■	WIDTH:	62 IN (1,575 MM)
■ ■	HEIGHT:	78 IN (1,980 MM)



Triton XL-05 & XL-25

DIMENSIONS

Length: 3,175 mm
Width: 1,575 mm
Height: 1,980 mm
Depth rating: 2,500 m
Weight in air: 3,145 kg
Payload capacity: 300 kg
Power: 100HP
7 x Thrusters in quad format
Altimeter
8 x Lights
1 x SIT camera
1 x Color zoom camera
1 x CCD B/W camera
1 x B/W camera
Schilling T3 S/C manipulator
Slingsby TA16 5-function manipulator
Simrad 900D digital sonar system
Strobe and locating beacon
Fiber optic multiplexing

TETHER MANAGEMENT SYSTEM

183 m (600 ft.) tether
1 x B/W camera
TMS dimensions:
Diameter: 1.9 m (6 ft. 4 in.)
Height: 2.1 m (6 ft. 11 in.)
Weight: 3,039 kg (6,700 lbs)

UMBILICAL WINCH/LAUNCH AND RECOVERY SYSTEM (LARS)

Winch: Dynacon Model 521
LARS: Dynacon 6021 A-Frame
100HP winch
Drum capacity: 2,702 m (8,861 feet)
Umbilical length: 2,301 m (7,548 feet)
12 tonnes safe working load
15 tonnes capacity fully deployed
LARS dimensions:
Reach: 3.15 m (10 feet)
Length: 12.8 m (42 feet)
Width: 3.2 m (10 feet)
Height extended: 8.84 m (29 feet)
Height collapsed: 3.29 m (10 feet)
Weight (total): 41 tonnes (45 ton)
Positive latch and rotation
Self-erecting A-frame

CONTROL CABIN AND CONSOLES

Dimensions:
Length: 6.1 m (20 feet)
Width: 2.4 m (8 feet)
Height: 2.6 m (8 feet)
Weight: 10,900 kg

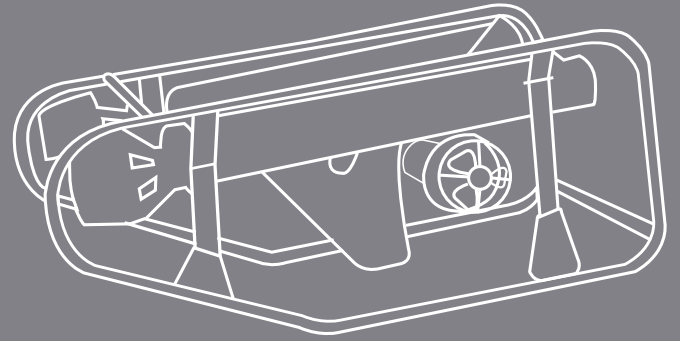
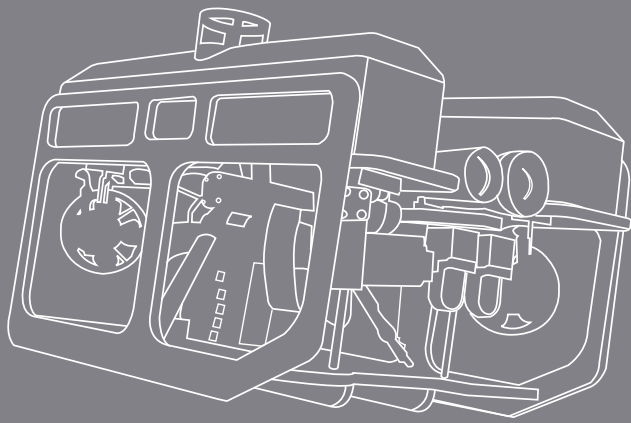
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■ Inspection-Class ROVs

The **Seaeye Tiger** is regarded as the standard observation and inspection ROV for operations to depths of 1,000 meters. The Tiger is unsurpassed in terms of its performance in strong currents, excellent handling and three-dimensional maneuverability.

The complete Tiger system includes a TMS with a tether length of 170 m and its own gravity-based launch and recovery system (LARS). The Tiger is easily deployable from support vessels or platforms and can be used in a free-swimming mode.

The **Phantom HD2** is a dependable ROV for inspection and light work tasks. This free-flying system is a highly mobile and reliable machine for use in moderate currents to depths of 1,000 feet (300 meters).

The Phantom accommodates cameras, sonar, tracking, manipulators and custom tooling. This ROV features superb video quality, 90° camera and light tilt, and a hardwired Phantom control system (easy to troubleshoot and add accessories). The Phantom's rugged, shock-mounted, full-perimeter stainless steel crash frame protects it from damage and makes it highly durable.

With its enhanced vehicle stability, low center of gravity and torque-balanced horizontal thrusters, the HD2's components are interchangeable with DOE Phantom Spectrum vehicles.

AT A GLANCE...

■ ■	SEAEYE TIGER	
	LENGTH:	1,030 MM
	WIDTH:	700 MM
	HEIGHT:	590 MM
	DEPTH RATING:	3,280 FT (1,000 M)
■ ■	PHANTOM HD2	
	LENGTH:	1,400 MM
	WIDTH:	686 MM
	HEIGHT:	673 MM
	DEPTH RATING:	1,000 FT (300 M)

