



TRITON XL

Heavy Duty Work Class ROV



OVERVIEW

The Triton XL is a 125HP Work class ROV with a proven 1000msw depth rating. The Triton can be installed in a ROV hanger, or supplied with a Control and Workshop container for installation on deck. TMT have extensively upgraded the Triton XLs since delivery, to ensure it continues to meet client requirements. Delivered with a 300m tether plus 1000m of lift umbilical on a 2500m capacity winch, all of the systems are capable of operating in a water depth exceeding 1000m in their standard configuration. Provisions are in place to easily upgrade to the full 2500m quoted system rating.

FEATURES

Manipulators

Manipulator options include:

- Schilling T2, 7-function, Master / Slave
- Schilling RigMaster, 5-function, rate

Tooling Interface

125HP electro-hydraulic motor generating ample hydraulic power / flow rate for tooling packages via 2 solenoid manifolds, each with ten (10) 4-way valves, operating @ 3300psi, 20L/min.

Tether Management System

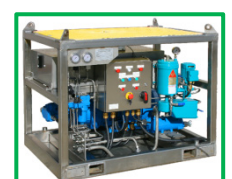
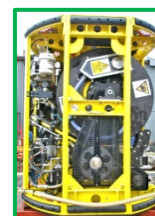
The Triton ROV is designed to suit Perry Type 5A TMS. Other TMS models are available as an option.

ROV Control

The ROV control system based on a 486 PC based surface and subsea processor architecture and operating real time database driven software.

ROV Instrumentation

- Nexus 10 comprising of eight (8) fibre optic video cameras
- 16x RS 232 data channels HD band
- Two (2) RS485 data channels
- Two (2) ArcNet channel
- Two (2) multibeam channels set for Reson 8125 heads





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ROV

Depth Rating	1000msw
Length	2.43m
Width	1.52m
Height	1.68m
Weight	3150kgs
Payload	300kgs
Through Frame Lift	3000kgs

ROV THRUST

Three Vertical and Four Horizontal Thrusters	
Thruster Horizontal	4x sub-Atlantic SA-300
Thruster Vertical	3x sub-Atlantic SA-300
HPU Power	125hp

ROV CONTROL

Heading	Flux gate compass
Depth	Pressure Transducer
Altitude*	± 0.1m Mesotech 807 Altimeter
*Accuracy dependent depth	

SYSTEM POWER REQUIREMENTS

Main Power	420-480VAC, 3 phase 60Hz 350k VA stable to ± 5% 440VAC ± 5%
Surface Domestic	40Vac 1-phase 32A
Electric Motor	100hp wash-down rated
Electrical Power	440Vac ± 10%, 3ph 60Hz 100A

CONSTRUCTION

Free-flooding, "I"-Beam main frame	
2 x power / Electronics Bottle	
2 x Junction Boxes: Main Tether & Survey + Nexus 10 MUX	
Ethernet Pod (Optional)	
HD Pod (Optional)	

MANIPULATORS

Standard:	
Schilling T2, 7-function – Master / Slave	
Schilling RigMaster, 5- function, rate	
TMT Guidepost Grabber, 2-function, rate	
Optional:	
Schilling Atlas, 7-function, rate	
TMT Guidepost Grabber, 2-function, rate	

EMERGENCY RECOVERY DEVICES

Strobe	
Acoustic Beacon	

CONTROL CONTAINER

Control Container	A60. DNV27-1
Length	6.058m
Width	2.438m
Height	2.743m
Weight	10,000kg
HVAC	17.5kW
Incoming Supplies	1x 440VAC.60Hz 3ph

TETHER MANAGEMENT SYSTEMS

Dimensions	Top hat with winch & level wind
Capacity	500m useable length
Dimensions	0.97m (D) 2.18m (H)
Focal Technology mod 190	
Electrical Optical	
Slip Rings:	3 x quad / 2 coax
3 x fibre optic rotary joints SM	
Motor 5hp, 2400VAC, 3ph, 60Hz	

Electric:

Winch System	Empty Drum ~163kg
Pay-out Rate	3.7 / 30.5m/min
Magnetic Reed Switch Sensor Payout Indication	
Line Pull Full Drum 50kg ~18.3m/min	
Sensors for latched indication provided	
Latching	Mech. over-centre main latches with spring-loaded fail-safe latches.

TETHER

Type	Nexus Bwt 2
Length	300m
Consists of:	RG59 coax x3 Individual quads x3 Power conductors x16 Fibre optic (50/125µm x 8) x1

UMBILICAL

Length	Up to 2000m
Diameter	46mm
Breaking Strength	510kN
Type Steel	Armoured
Conductors	optical fibres x6 RG59 coax x3 RG108 quads x4

AVAILABLE ROV TOOLS

Guide Wire Cutter	Hotstabs
Guide Post Cutter	Water blasters
Mini Dredge	PH Meter
Rig Floor Monitor	Fluid Transfer Skid
Smart Torque Tool	Guidewire Latch
Plate Handling Tool	Systems
Smart Level	Current Meter
CP Probe	Megga Digger
Gasket Ring Tool	Gasket Installer

