

ROV Datasheet:-
Mock ROV

General Information

The Mock, or dummy, ROV is available to simulate ROV operations, check accessibility to ROV interface points, and highlight any potential areas of concern for ROV tasks during dry, land-based trials such as System Integration Tests (SIT's), Extended Factory Acceptance Tests EFAT's etc.

The mock ROV consists of a steel structure, built to replicate the dimensions and shape of the actual ROV's to be used during the offshore phase of a project with the 7-function and 5-function hydraulic manipulators, cameras, lights, pan and tilt unit and project specific tooling. It can replicate the real scenario.

Mock ROV can be configured as needed to the following ROV sizes.
XL, XLS, XLX, UHD, HD.

Triton XLX



Mock Triton XLX



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Mock trials



Above shows trials conducted on client WI PLET project. The project involved the removal and replacement of an existing WI PLET and installation of a flexible jumper. One of the problems that was encountered was the need to remove old rigging left subsea on the PLET for 5 years. A real size mock up of the back end of the PLET was built and the mock ROV was used to prove the methods of split pin removal from the shackles then open the shackles, remove and replace.



Pilot view cutting split pin

Specification

The basic specification of the Triton XLX Mock ROV is as follows:-

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Mock ROV frame c/w certified rigging
Dimensions (l x w x h):- 3226 x 1824 x 1855
Material : Steel & aluminium
Weight approximately 2.3 tonne
Schilling Titan 4, 7-function manipulator and Rigmaster 5-function manipulator

HYDRAULIC SYSTEM

Hydraulic Power pack

Built in 11KW unit.
Maximum working pressure: 210 Bar.
Maximum system flow rate: 23L/Min.
Reservoir capacity: 100L.
Fitted with an air cooled heat exchanger.
Fitted with 4 pressure gauges, allowing system pressure and outlets pressures to be constantly monitored.
10 station valve pack with Solenoid functions.
Temperature and pressure readouts, to monitor system performance and behaviour
Operating temperature range -20° C to + 40°C
Manifold outputs for quick connection of additional tooling.

CONTROL SYSTEMS

Power Distribution

Power requirements
3 Phase 440/480 VAC 32A Power Supply at 50/60Hz
Certified electrical installation
Control of Mock ROV power systems
Emergency stop control

Control Consoles

19" Equipment rack
Pilot's console
Manipulator master controller
Schneider PLC control system
Pan & Tilt control
Valve pack control
Camera and lighting control
1 x 15" CRT monitor
4 x 10" CRT monitors
2 x single channel hard drive video recorders Administration computer
Clearcom intercom system
