# XLS Heavy Duty Work Class ROV System

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REMOTEL	Y OPERATED VEHICLE	ТН	RUSTER CONTROL
Operating Conditions	Up to and including Sea State 6 (3g)	Manifold	16 station control with 2x High Flow for
Depth Rating	3,050m sea water		tooling
Hydraulic Power	112kW 150HP	Manifold #1	9 station bi-directional IHPU activation valve
Length	3,050mm	Marrifald #0	
Width	1,780mm	Manifold #2	options
Height	1,930mm	IHPU Manifold	9 station Manifold 2 valves remotely
In Air Weight	4,400kg		controlled for pressure and flow
Fwd/Aft Bollard Pull	1,100kgf	Auto Functions	Heading, Depth, Altitude, Pitch and Roll
Lateral Bollard Pull	1,100kgf		Auto Positioning (ROV DP) Utilising RDI
Vertical Bollard Pull	1,130kgf		
Fwd/Aft Surface Speed	3+ Knots	Heading Control	Fibre Optic Gyro (FOG)
Lateral Surface Speed	2+ Knots	Depth Control	Bathy Altimeter
Vertical Speed	2+ Knots	Recording Facility	Digital Video Recorder (DVR)



### VEHICLE EQUIPMENT

Manipulator 1	Schilling T4
Manipulator 2	5 function manipulator
Camera Pan and Tilt	2 x Pan and Tilt
Cameras	Optional—up to 5 cameras
Sonar	Obstacle Avoidance Sonar (OAS)
High Resolution Sonar/ MBES	Optional
Emergency Flasher	1x Novatech Strobe

## A FRAME ASSEMBLY

Туре	Hydraulically powered 'A' frame c/w umbilical sheave, damped snubber and rotating frame
Full Overboard SWL	27,500kg
Luffing	1,500kg
Design Factor	3g
Deployed Reach	4,500mm
Dimensions	7,350mm (L) x 3,650mm (W) x 3,650mm (Transport)
Weight	17,000kg nominal

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#### TETHER MANAGEMENT SYSTEM

Operating Conditions	Up to and including Sea State 6 (3g)
Depth Rating	3,000 metres sea water
Tether Capacity	380m of 35mm Tether
Hydraulic Power	7.6kW 10HP
Diameter	1,980mm
Height	2,180mm
In Air Weight	3,000kg
In Seawater Weight	2,163kg
Lighting	2 x Lights
Video	1 x Camera
	UMBILICAL WINCH
Туре	UMBILICAL WINCH Hydraulically powered lift winch complete with electro optic slip ring.
Type Safe Working Load	UMBILICAL WINCH Hydraulically powered lift winch complete with electro optic slip ring. 15,240kg
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Type Safe Working Load Design Factor Umbilical Storage Capacity Dimensions (erected) Weight Control	UMBILICAL WINCH Hydraulically powered lift winch complete with electro optic slip ring. 15,240kg 3g 4,500m of 40.5mm diameter umbilical 4,420mm (L) x 4,165mm (W) x 3,150mm (H) (Transport) 52,000kg Local control station

The LARS system is composed of two skid assemblies; 1) A-frame skid assembly and 2) winch skid assembly. The primary function of the A-frame skid assembly is to facilitate the movement of the TMS to and from the deck to the overboard position as well as manage the ROV control cable at the overboard position. The primary function of the winch skid assembly is the management of the ROV control cable; the winch skid assembly contains the HPU which supplies all electrical and hydraulic power to the system.

The A-frame skid assembly contains all the necessary subsystems to transport the TMS containing the ROV from the deck of the vessel to the over-boarding position and back to the deck and a means for managing the ROV control cable at the boom interface, during deployment and retrieval.

The A-frame skid consists of a mounting base skid, a hydraulically driven boom assembly and a "flagging" docking head containing, a sheave and hydraulically controlled "latch" and "slew" mechanisms. The A-frame assembly is packaged with a standalone A-frame hydraulic control pedestal which is the control interface for all associated skid functions and is positioned in a good 'splash zone' viewing point.

The winch skid contains the HPU, winch mounting base skid, winch drum, winch motor, winch "brake", electro-optic slip ring and optional drum cooling spray down cooling system. The purpose of the skid is to supply both hydraulic and electric power to the entire system and control the pay-out and pay-in of the ROV control cable.

The mounting base skid is affixed to the vessel of the deck using replaceable welded deck clips and is intended to support the winch and HPU.

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