HARKAND
TRITON XLX 3,000M 150 HP 2013
HEAVY DUTY WORK CLASS ROV

The XLX is the ultimate in hydraulic heavy-duty dual construction and survey class remotely operated vehicles (ROVs).

This all-new design, benefits from over thirty years of underwater vehicle build programmes and incorporates a number of enhanced components from the world's most respected underwater vehicle builders.

Designed and built to perform the most exacting operations in the harshest of environments for long periods, the XLX provides the necessary attributes to get the job done.

With an impressive 1,100kgf thrust performance, the XLX is in a class of its own.

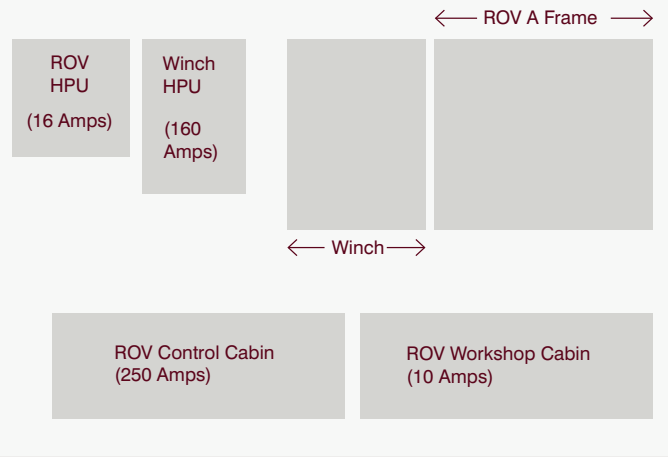
The XLX is particularly suited for heavy-duty construction support, where remote intervention tasks are required such as positioning of subsea structures, pipeline/umbilical connection, pipeline repair, component change-out, valve operation, fluid injection, debris removal, plus many more. To enhance the capability of the XLX, it may be fitted with purpose built tooling skids weighing up to 3000kg (3 Te.) in air. 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 complementary top hat tether management system (TMS), designed to maximise the performance of the vehicle by eliminating the effects of umbilical drag and vessel motion.

Built in diagnostics aids fault finding.

DECK FOOTPRINT

	Dimensions (m)	Weight kg
ROV Control Cabin	6.06 x 2.44 x 2.59	12,000
ROV Workshop Cabin	6.06 x 2.44 x 2.59	12,000
ROV	3.23 x 1.83 x 2.13	4,800
TMS	2.03 (dia) x 2.22	3,400
ROV Deck HPU	1.30 x 1.00 x 1.00	1,000
Winch HPU	2.38 x 1.40 x 1.83	2,995
Winch	3.65 x 3.15 x 4.04	28,296
ROV A Frame	7.41 x 3.64 x 3.06	21,237



TECHNICAL SPECIFICATIONS

REMOTELY OPERATED VEHICLE

Operating Conditions	Up to and including Sea State 6 (3g)
Depth Rating	3050 metres sea water
Hydraulic Power	150 HP
Length	3230mm
Width	1830mm
Height	2130mm
In Air Weight	4800kg
In Seawater	Weight Neutral
Fwd/Aft Bollard Pull	1100kgf
Lateral Bollard Pull	1100kgf
Vertical Bollard Pull	1100kgf
Fwd/Aft Surface Speed	3+ knots
Surface Speed	3+ knots
Vertical Speed	3+ knots
Payload	250kg with all std equip fitted
Through Frame Lift	3000kg @3g at work skid at attachment point
Main Pump	240bar 242 lpm
IHPU Pump	210bar 207 lpm
Propulsion	4 x 380mm horizontal and 4 x 300mm vertical hydraulic thrusters
Thruster Control Manifold	One intelligent, 16 station control with 3 x High Flow for tooling
Main Manifold	One intelligent, 16 station bi-directional proportional control manifold
IHPU Manifold	12 station proportional surface controlled manifold
Auto Functions	Heading, Depth, Altitude, Pitch & Roll Auto Positioning (ROV DP)
Heading Control	Utilising RDI 1200 Doppler log
Depth Control	Tritech ICG & IFG sensors
Altitude Control	Digiquartz Depth sensor
Telemetry	RDI 1200 Doppler log 8 x RS232 data channels + 8 x RS485 8 x video channels 1 x HD Video Channel 4 Channel survey 1GB Ethernet Mux via single mode fibre
Lighting	12 x 250W 6000 lumen LED lamps
Equipment Interface	Survey JB upto 32 channels Sidescan interface FOG interface Reson 8125 Interface

VEHICLE EQUIPMENT FIT AS STANDARD

Manipulator	1 x Schilling T4 with wrist camera
Grabber	1 x Schilling Rigmaster
Camera Pan and Tilt	3 x Sub-Atlantic SA-A-5735-MAS
Colour Cameras	2 x OE14-366 Colour Zoom Cameras 1 x OE14-376 LR Colour Camera 1 x OE14-110 Colour Camera 1 x Schilling T4 wrist camera
Low Light Camera	1 x OE15-100 SIT Equiv Camera
Sonar	1 x Tritech Super Seaking DST
Emergency Flasher	1 x Novatech Strobe
Emergency RF Beacon	1 x Novatech Beacon

TETHER MANAGEMENT SYSTEM

Operating Conditions	Up to and including Sea State 6 (3g)
Depth Rating	3000 metres sea water
Tether Capacity	750m of 35mm Tether
Hydraulic Power	7.6kW 10HP
Diameter	2030mm
Height	2220mm
In Air Weight	3400kg
In Seawater Weight	1840kg
Depth Measurement	1 x Digiquartz Depth sensor
Lighting	2 x 250W LED lamps
Video	1 x OE14-110 Colour Camera

CONTROL CONTAINER & EQUIPMENT

Control Container	A60. DNV 2.7-1
Length	6058mm
Width	2438mm
Height	2590mm
Weight	12,000kg
Air conditioning	1 x 14KW
Incoming Supplies	1 x 440Vac, 60Hz, 3 Phase main supply

'A' FRAME ASSEMBLY

Type	Hydraulically powered Dynacon 9966 'A' frame c/w umbilical sheave, damped snubber and rotating frame
Safe Working Load	22000kg Overboard 13000kg Luffing
Design Factor	3g
Deployed Reach	4360mm
Dimensions	7410mm (L) x 3640 (W) x 9000mm (H - erected)
Weight	21237kg nominal

UMBILICAL WINCH

Type	Hydraulically powered from external power unit
Safe Working Load	15,584kg on bottom layer
Design Factor	3g
Umbilical Storage Capacity	3300m of 41mm diameter umbilical
Line Speed	Variable up to 60 metres per minute
Braking	Independent Emergency braking system
Dimensions	3648mm (L) x 3150 (W) x 4039mm (H)
Weight	28296kg nominal with 3300m of umbilical installed
Control	Local control station

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