



HARKAND



GO ELECTRA **DP2 MULTI-PURPOSE ROV,** **SURVEY AND AIR DIVING VESSEL**

DIMENSIONS
Length 79.7m & Beam 16.4m

MAIN DECK AREA
506m²

MEZZANINE DECK AREA
70m²

MAIN CRANE
25t active heave compensated

ROV
Triton XLX heavy duty work class ROV
Inspection class ROV

OTHER SERVICES
Air diving
Survey
Optional full HD distribution & recording

TECHNICAL SPECIFICATIONS

VESSEL SPECIFICATIONS

Year Built	2012
Classification	1A1 SF LFL* COMF-V(3) E0 DYNPOS-AUTR CLEAN DK(+)
Trading Area	World-Wide
Call Sign	V7ZR6
Flag	Marshall Islands
IMO Number	9545481

MAIN CHARACTERISTICS

Length (LOA)	79.7 m
Length (LBP)	72.00 m
Breadth	16.40 m
Depth Mld	7.45 m
Max Draft Midship	6.22 m
Depth Shelter deck	10.20 m
DWT	3123
GRT	4071
Cargo Deck	506 m ²
Mezzanine Deck	70 m ²

ACCOMMODATION CAPACITY

Certified to Carry 66 Persons
Cabin Configuration: 14 x 1 berths / 26 x 2 berths
Facilities: 1 x Conference Room, 1 x Sky lobby, 3 x ROV / Survey / Project Offices

DECK EQUIPMENT

Main Crane	MacGregor Hydramarine
Active Heave Compensated, electro-hydraulic, knuckle boom crane with the following capacities:	
SWL1 speed 0-20 m/min	25TSWL @ 10 m
SWL2 speed 0-40 m/min	12TSWL @ 20 m
Wire	1000 m
Aux crane, 3 t @ 10 m	On top of hangar, starboard side

DP/THRUSTERST

DP2 and Automation from Kongsberg K-Pos and K-Chief	
2 x Bow thruster/Frequency Control	800 kW each
2 x Azimuth aft/Frequency Control	1500 kW each

ROV HANGAR

An ROV hangar is situated aft of the accommodation area with access doors to launch ROVs from both port and starboard sides of vessel.

The hangar may be closed by means of the watertight doors in order to function as a protected work area for storage, maintenance and handling of the ROV.

- 1 ROV Mechanical Work Shop
- 1 ROV Electrical Work Shop

ROV LAUNCH

Integrated ROV A-Frame Side Launch

ROV SYSTEMS

The vessel is permanently equipped with a state-of-the art 150hp Triton XLX work class ROV system. The topside control station is build in to a dedicated room on board the vessel.

A second work class ROV or Inspection Class ROVs can be added as work scopes dictate.

SURVEY

Survey support services are provided through Harkand Andrews Survey, a leading provider of survey and positioning services to the international offshore industry for over 35 years.

The vessel is permanently mobilised with dual DGPS, dual online navigation, online sensor acquisition and offline processing and reporting packages.

Bespoke survey equipment and software can be installed and calibrated onboard for any job specific work scope.

AIR DIVING

An air diving system can be deployed on the vessel to carry out IMCA compliant air diving work down to 50m. The air diving equipment can be installed rapidly on the vessel. This allows the vessel to carry out safe and operationally efficient IRM or light construction air diving projects fully in compliance with all UK HSE regulations and IMCA guidelines in a cost effective manner.

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All information included in this specification is believed to be correct but is subject to change. No guarantees of accuracy can be given.



ISS-10-AF & ISS-11-AF LAUNCH AND RECOVERY

AIR DIVING A FRAME

Length when closed	4686 mm
Base length	3500 mm
Width	2040 mm
Height	2030 mm
Max height (when opening)	4900 mm
Divers extension	530 mm
Weight tare	1700 kgs
Weight gross	5300 kgs
Winch swl	1445 kgs
Lifting padeyes swl	1445 Kkgs
Width between arms	2267 mm

MAN RIDING BASKET WINCH

Winch	1 OFF INGERSOLL RAND FA2i MR1.6MK I G-E
Man riding rating	1450 kgs
Drum length	406 mm
Drum brake	MANUAL
Disc brake	YES
Control	WINCH MOUNTED LEVER
Rated operating pressure	6.3 BAR
Air consumption rate	10 m3 / min
Full drum line pull	2000 kgs
Mid drum line speed	17 m / min
Max stall pull	4218 kgs
Max free board	26 mm
Net weight	430 kgs
Drum barrell diameter	273 mm
Wire rope diameter	13 mm
Wire rope length	120 m
Max depth	50 m

AFRAME ACCESSORIES

- 5 X Hanging Point
- Top hat and Limit Switch
- 2 x McKissocks Blocks

SECONDARY CLUMP WEIGH WINCH

Winch	1 OFF INGERSOLL RAND FA2.5i MR124MK I C-E
Man riding rating	1450 kgs
Drum length	406 mm
Drum brake	MANUAL
Disc brake	YES
Control	WINCH MOUNTED LEVER
Rated operating pressure	6.3 BAR
Air consumption rate	20 m3 / min
Full drum line pull	2268 kgs
Mid drum line speed	44 m / min
Max stall pull	4218 kgs
Max free board	26 mm
Net weight	430 kgs
Drum barrell diameter	273 mm
Wire rope diameter	13 mm
Wire rope length	120 m
Max depth	50 m

WINCH MANIFOLD

- Air Filter
- Regulator
- Lubricator

BASKET CLUMP WEIGHT

Length	1380 mm
Height	300 mm
Width	220 mm



ISS-04-DC ZONE II RATED DIVE CONTROL

CONTAINER SPECIFICATIONS

Container ID	2545
Length	4880 mm
Length when doors open	6718 mm
Width	2440 mm
Height	3650 mm
Weight (Gross)	7000 kgs
Weight (Tare)	7000 kgs
SWL	0 te

A60 SPECIFICATIONS

A60 Escape Hatch
EEx Hook Up Power Junction Boxes
Pressurisation and Ventilation Fan
B15 Internal Door creates an Air Lock
JCE CPFG 2000 Series Control Panel for Purge System
Gas Sensor
Smoke Sensor
Ex Lighting

SPARES / SUPPLIED

Fathom 3 Diver Communications Unit
19" Monitor
0200 O2 Analyser
0200 Replacement Cells
A3 / A4 Paper
Printer Ink
Keyboard / Mouse
Headset c/w Mic
Headset Extension
Deck Camera
Samsung Black Box
Blank DVD-R
Lamination Pouches (A3 / A4)
3 in 1 Printer / Scanner / Copier
Container O2 Analyser
First Aid Kit
Stationary

ELECTRICAL SPECIFICATIONS

The cabin is wired and designed to operate from 3 phase and earth supply (no neutral)
440v 63 Amp

FEATURES OF DIVE CONTROL

3 Diver Nitrox Air Panel
Heating and Air Conditioning
Marine Grade Electrical System
Fire Extinguisher
Recessed Penetration Plate for Power and Gas Supplies
Hose and Umbilical Cable Tray, incl crash cage
Fathom 3 Diver Communications
Holland Engineering 2 Diver Camera and Light Controller
Rig Alarm Hook Up Junction Box
Clear Comms Deck Communications
Deck CCTV System
Individual Divers 0200 Analyser
5 x 19" Edge 10 Monitors
Wall mounted PC
Hot Water Alarm
DP Alarm
Ellispe UPS
Inspection Suite
Air Intervention Panel
Samsung Black Recorder
AGA Mask c/w Mic
Cable Tray for Umbilical and Hose

POWER CABLE

Cable	BS 6883 Ship Wiring 4 x 10mm
Cable Length	25m
Plug	32a / 6h 380-415 v 3 pin + earth



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ISS-05-DDC TWINLOCK AIR CHAMBER

CONTAINER

Container ID	ISS-01-DDCC
Length	4500 mm
Length with Doors Open	5400 mm
Width	2850 mm
Width with Doors Open	5100 mm
Height	2760 mm
Weight Gross	7700 kgs
Weight Tare	3600 kgs
Weight Payload	4100 kgs

CHAMBER DETAILS

Description	60" Twinlock Chamber
Serial Number	38500
Manufacturer	Hytech
Manufactured	2008
Length	3500 mm
Width	1680 mm
Height	2125 mm
Tare	3459 kg
Internal Design Pressure	5.5 barg

CHAMBER FEATURES

Internal Scrubber
Sound Powered Phone in Entry and Main Lock
1 x Viewports Entry Lock
2 x Viewports Main Lock
Medical Lock
2 x Hyperbaric Fire Extinguishers
6 x BIBS
2 x Bunks c/w Bedding
Entry and Main Lock Lighting
External Heater

CONTROL PANEL

AGA Mask
Con Space Comms Unit
Sound Powered Phone
ATEX Oxygen Analyser

SUPPLIED

Stretcher
DMAC Medical Kit
First Aid Station
Container O200 Analyser
Container Fire Extinguisher
Container Emergency Lighting

ELECTRICAL SPECIFICATIONS

Plug	16A / 4H 100-130V 2 PIN + EARTH IP44
Power	240 V
Cable	25 m



ISS-02-HWC DIVERS HEATING SYSTEM

CONTAINER

Container ID	TS2279
Length	2980 mm
Length with doors open	4200 mm
Width	2440 mm
Height	2650 mm
MASS (tare)	2500
MASS (gross)	9550 kgs
SWL	7050 kgs
Standard	DNV 2.7-1
Manufacturer	TRANSMIT
Date of manufacturer	abr-05

OPERATING SPECIFICATIONS

Input fluid	Water (fresh or sea)
Flow rate	45 l / min
Output pressure	68 BAR
Temp. Control range	43 - 60
Temp. Control	1
Seawater temp in	3
Seawater temp out	60

ELECTRICAL SPECIFICATIONS

Voltage	440 v
Phases	3
Frequency	60 Hz
Power	190 kW
Current	210 - 250 A

SPARES

Service kit for cat pump
Cat pump oil
4 X heating elements
Water intake filters
V -Belts

OTHER

1 X co2 fire extinguisher
Operating manual

MISC

Container contains two hot water machines
1 X primary
1 X backup



GAS VOLUME TANK

GVT FRAME

Length	2230 mm
Width	1010 mm
Height	1160 mm
Mass	1000 kgs
Swl	1000 kgs
Standard	BS 7072
4 X top corner lift points	

GVT SPECIFICATION

Manufacturer	PRESSVESS AIR LTD
length	2000 mm
Diameter	760 mm
Volume	800 L
Design pressure	11 BAR
test pressure	16.5 BAR
max operating temp	100
min operating temp	-10

DOMELoader SPECIFICATION

Body	BRONZE
Valve size	1/4"
Nominal bore	6 mm
Inlet & output ports	12 #jic
Pressure variation %	1,1
Flow factor (cv)	0,7
Outlet pressure set	6 BAR
Weight	5.5 kgs
Dome loader PRV	11 BAR



SAFETY

D - rings welded to frame for correct anchorage of hose whip checks