



OFFSHORE TECHNOLOGY SOLUTIONS LTD.

# OFFSHORE TECHNOLOGY SOLUTIONS LTD. ROV - 1000 SYSTEMS

## OTSL ROVFLEX Division 1000 and 1000XT

OTSL Outland 1000 ROV Systems are highly mobile, rapid response systems, which can be mobilized by traditional means of transport; commercial airline carriers and helicopters to work locations. ROV 1000 is capable of working in depths up to 1000ft. (300msw), deployable by hand or with the use of a LARS to overcome currents and heavy seas.

OTSL Outland 1000 and 1000XT is well equipped to handle many tasks and capable of developing in excess of 87lbs of thrust. For a small unit it has one of the best power to weight ratios in the market place.

OTSL Outland 1000 and the 1000XT ROV systems are capable of being tooled up with CP, UT, Multi Beam 2D and 3D Sonar, Cutter and Grabbers.



## ROV 1000 Controller & Console





# OFFSHORE TECHNOLOGY SOLUTIONS LTD. ROV - 1000 SPECIFICATIONS



## OTSL Outland ROV - 1000

**VEHICLE MODEL - ROV - 1000**

Vehicle rated for operation to 1000 ft. (300m)

### Vehicle Attributes:

- A.** 4 Thrusters (2 Horz., 1 Lateral, 1 Vertical)  
Providing 18lbs of Thrust each - Total Thrust 72lbs.
- B.** UWC-360D (Dual Camera on Tilt Assembly)  
360 degree, Color and Black & White.  
(1 ea. Color 600 line, .001 lux)  
(1 ea. B&W 600 line, .0003 lux)
- C.** Depth Transducer  
(programmable to Fresh & Salt Water).
- D.** Electronic Compass, GYRO.
- E.** 2 ea. UWL-500 LED Lights (1740 Lumens ea.)
- F.** 1 ea. 8 Pin Spare Connectors.  
(prewired for Sonar & Manip.)
- G.** Tritech Scanning Sonar.

### MECHANICAL:

Size..... 26"L x 15"W x 10.5"H  
 Size..... 65cm x 37cm x 26cm  
 Weight..... 39 Lbs. (17.7 Kg.)  
 Thrust (per thruster) ... 0 - 18 Lbs. Variable.  
 Payload ..... 5 Lbs (2.3 Kg.)

### ELECTRICAL:

Motor Voltage ..... 165 VDC input 10 amp.

## CABLE \* C - 3405

### MECHANICAL:

Size.... 0.56" (13.7mm) Dia. x 500 ft. (150 mt.)  
 Breaking Strength ..... 1000 Lbs (450 Kg.)  
 Jacket .... 80 Mills Green Cellular Polyurethane.  
 Weight ..... UT is 49 Lbs. Dry, Natural Wet.

## HAND CONTROLLER (HC-1000)

### MECHANICAL:

Size..... 7.5"L x 4.5"W x 6"H  
 Size..... 19cm x 11cm x 15cm  
 Weight ..... 1.1 Lbs. (0.5 Kg.)

### ELECTRICAL:

Power In ..... 12 VDC from Power Supply.  
 Data Output to Vehicle ..... RS485

## HAND CONTROLLER (HC-1000)

### Joystick Controller Details

- A.** Single Joystick for 3 - axis control.
- B.** 16 Key keypad control for Vertical (up/down)
  - \* Thruster Control            \* Camera tilt Control
  - \* Light Dimmer Control
  - \* Auto Hover ON/OFF       \* Auto Header ON/OFF
  - \* Thruster Power Level
  - \* 2 Manip \* 4 Spare Keys for future application.

## CONTROL SYSTEM

## POWER SUPPLY (PS-1050)

### MECHANICAL:

Size..... 22"L x 13"W x 23"D  
 Size..... 55cm x 33cm x 57cm  
 Weight ..... 54 Lbs. (25 Kg.)

### ELECTRICAL:

Power In ..... 100 - 240 VAC (50/60 Hz.)  
 @ 1800 Watts MAX.

Power Out to ROV ... 165 VDC @ 10 amps.  
 Spare twisted pair.

Video Overlay, Time/Date, Depth, Heading, Text.  
 Includes: 12" 450 nit, LCD Monitor, Keyboard &  
 V 1000 Output. \* GFI, LIM Isolation Protection.

### ELECTRICAL: CAT5E .... 4 TP #24 AWG.

Conductors : 12 ea. #22awg.



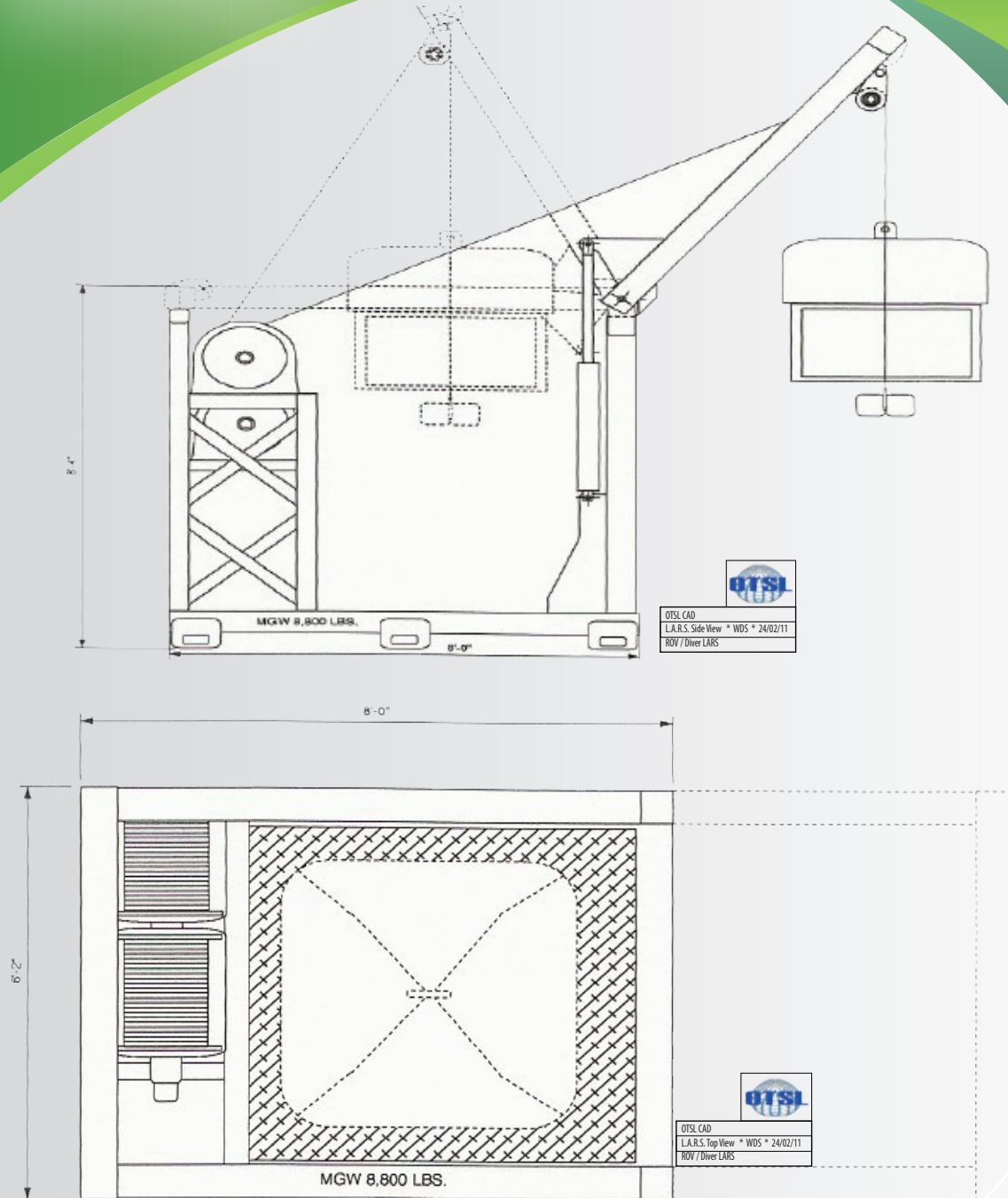


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# ROV - 1000

## SPECIFICATIONS



### ROV - 1000 Options.

1. 1000 ft. C-3410 Cable. (Cable reel with slip rings.)
2. Sonar Unit. Tritech micro Nav Scanning sonar.
3. Grabber (Seabotics).
4. Cable reel w/slip rings.
5. Multibeam Sonar blue view P900.
6. Many other options: i.e.
  - Cygnus UT System
  - Cathodic Potential Probe
  - Rope Cutters.

### LARS (Optional)

This ROV System is more suited and capable to heavy sea states and high currents. Deployable using LARS system setup on DP Vessel, Platforms and anchored structures.

Dimensions - 8' L x 6.2' W x 6.4' H

Winches - (2) Hydraulic powered 600ft. Cable.

Clump Weight - (700, 480, 350) 1,400 Lbs.

LARS Weight - 8,800 Lbs.

SWL - 4,000 Lbs.

LARS Power Requirements - Hydraulic 20GPM @ 2000 PSI.