**AUXROV**

Centurion Subsea Services have built our multipurpose intelligent AUXROV System for delivering power and positioning underslung tools. There are a number of tools that can be used with the system including Rock Grabs, Mass Flow Excavation Tools, Rock Bag Deployment frames and cutting tools. These tools cannot be used with conventional ROVs due to the weights associated with them.

The system can also be interfaced with a number of sensors for survey operations such as cameras, Multi-Beam Sonars and has auto heading and depth feedback as standard.

**AUXROV VEHICLE SPECIFICATION**

**Mechanical Features**
- Docking Bullet
- Corrosion resistant stainless steel frame
- Weight 2.7 te
- Dimensions (L x W x H) 2.15m x 2.15m x 1.7m
- 30 Tonne SWL lift frame complete with hydraulic locking pin for locking underslung equipment with magnetic sensor and software feedback / Interlock to show that the lock is fully engaged.

**Hydraulic Features**
- 4 x 380 Hydraulic Thrusters
- A combined 300HP
- Max Flow 520 L/min
- Fully proportional flow and pressure

**Electronic Features**
- Fibre optic control system
- Auto Heading
- Altimeter
- Depth sensor
- Impact Subsea Compass (upgrade available)
- Depth Rated to 3000 MSW (deeper if required)
- 4 x LED Lights
- Cameras 4 x SD Ports & many more IP ports available
- Thruster Control Unit
- 10 Station Valve Pack
- Power/Control Can
- Main J/B
- MUX System; Latest generation MUX system encompassing all your survey needs
AUXROV APPLICATIONS

The Centurion Subsea Services AUXROV can operate with an extensive variety of tools suitable for a diverse range of industry applications.

By simply installing the universal docking plate to the tools the AUXROV hydraulically locks into each tool and provides locking ram position feedback through the software. This makes it a fast deck changeover to new tools during different phases of the project.

Some of the operational applications are described below;

Survey & Site Clearance

The AUXROV has worked extensively on-site clearance on various wind farm sites.

By using its high specification Multiplexor, the system can also be configured with Multibeam and an array of survey sensors for pre and post site clearance surveys.

The two main applications for site clearance are Boulder / Debris removal & UXO Investigation and clearance. The main tools used here are Hydraulic Grabs and Sensors such as the PanGeo SBI or Teledyne TSS detection systems as shown.

If the site suffers from ultra-shallow water locations or extreme currents, the AUXROV can also be configured to operate on subsea tracks giving it additional capability to operate in these conditions.
Construction

During the construction and lift of field phases, the AUXROV can be equipped with Mattress Deployment and Rock bag installation frames to allow the suitable placement of protection systems for cables and pipes.

Throughout operations it would be fitted with a suite of cameras, lights and sonar giving the end user detailed real time data on how the bags and matts are being laid.

Dredging & Excavation

When drilling or performing work next to a subsea structure often the vessel needs to stand off from that structure whilst the ROV has to perform difficult work next to it.

The AUXROV operates a high-powered hydraulic system that allows it to power tools such as high flow dredge pumps to excavate target areas. By placing the system on tracks it can drive itself close to the base of any structure to remove cuttings, mud or anything that needs to be cleared from the site.
Decommissioning

Acting as a Swiss Army Knife, the AUXROV can be mobilised with a suite of decommissioning tools such as shear cutters, mass flow excavators, clam shell grabs, mattress recover frames and pipe recovery systems allowing typically combined crane and WROV operations to be combined into one with one ROV crew to manage it all.

This allows for multiple phases of the scope to be conducted by one system, with reduced personnel on board and increased vessel efficiency.