



ROV



Remote Systems for Hazardous Environments



About Us

Established more than twenty years ago, Non Entry Systems Ltd (NESL) is a leading global manufacturer of specialist non-man entry tank cleaning equipment, sludge handling equipment and sludge treatment & oil recovery plants.

NESL is located in Swansea, South Wales in the United Kingdom and operates from an eighteen thousand square-foot facility. As all equipment is conceived, designed and manufactured on-site the facility incorporates offices, R&D, design, fabrication, assembly, testing, preparation & painting, and electrical workshops.

NESL are renowned experts in the design, manufacture and delivery of specialist equipment and systems and offer quality tailored solutions and systems that meet the needs of professional safety conscious contractors. We work closely with our customers, suppliers and end users to ensure compliance with the varying regulatory specifications in different countries. All NESL products are built to operate and last in hazardous environments and as such all products conform with the latest industry regulations such as ATEX, UL, and CE. In addition, all of the company's products are designed with functionality and user-friendliness in mind.

To ensure the highest standards possible, NESL has its own project managers who oversee each and every build. Components not manufactured in-house are sourced from trusted suppliers not only locally but from around the world that meet the same high levels of excellence as NESL. Each major component is catalogued, every serial number recorded and each item of equipment built by highly trained and experienced individuals.

All of the company's products and systems are the result of decades of design, testing, engineering expertise, innovation, dedication and first-hand experience of tank cleaning and its challenges. All these factors have contributed to NESL's equipment operating on storage facilities and refineries around the globe. Through our network of global agents, we are able to respond to any request, at any time.

Clients Include

- Department of Energy – United States
- IBKA – Europe
- Veolia – Europe & United States
- Evergreen – Canada & United States
- Waste Reduction Services Ltd – United Kingdom
- KSS – Kazakhstan
- Environ – Nigeria
- Sepor – Spain
- Clean Harbors – United States
- PSC – United States
- NG – Norway
- Denholm Macnamee – United Kingdom
- PetroTech Services – United Kingdom

Products & Services

Whatever requirements you or your client have we have a solution available and in the rare circumstances we don't have one readily available, we'll work with you and your client to find one. NESL have been put to the test many times in the past and have always been able to provide an innovative, cost effective and safe solution.

Non-man entry for tank cleaning & de-sludging operations is rapidly becoming standard practice in all European countries as well as elsewhere.

NESL developed the ROV Cannon System for non-entry cleaning operations for tanks of all sizes. Today's version represents years of experience and customer feedback which has resulted in the most sophisticated and best performing ROV Cannon ever produced.

NES ROV (Remote Operated Vehicles) are available either as an add on for the Manway cannon systems or as a containerized stand-alone system.

The ROV is best suited to tanks with no heating coils where no-man entry is required. The system comes with an insertion ramp which is slid into the manway. The ramp is hydraulically actuated up and down with the supplied hand pump.

Once in position the ROV is simply driven up the ramp and into the tank. Once inside the tank the ramp can be removed and a supplied roller is placed in the manway to aid the movement of the umbilical through the manway.

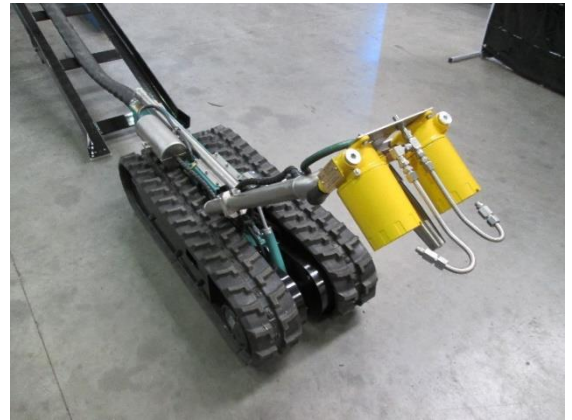
The ROV comes with a fifty-five-meter umbilical permanently attached to the unit. The loose end of the umbilical is left by the manway and connected to a manway cannon umbilical (for electric and hydraulic) and a supplied track extension hose is used to go from the manway to the container.

For complete stand-alone systems all umbilicals are supplied and an overview cannon is provided.

The ROV is certified for use in a Zone 1 area (ATEX Group II Cat 2) and the unit includes an anti-static umbilical for extra protection. All electrical components are EX certified and all fluid path material is stainless steel. Mild steel is used in the main frame assembly only.

On either version, stand alone or cannon add on, the control system is as per a NESL manway cannon system with a full control desk. Stand-alone units will come in a modified 20' ISO container which is recertified for shipping. This container will be a two compartment unit similar to the cannon system with a fully lined out control room and an equipment storage room.

In 2018 NESL will be developing an ROV de-sludger based on the highly rated and successful mover, the unit will be controlled and operated by technicians outside of the tank. It is expected that the de-sludger will be fitted with gas detection equipment, cameras and pumping equipment.





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