



## Mover



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, Australia & 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

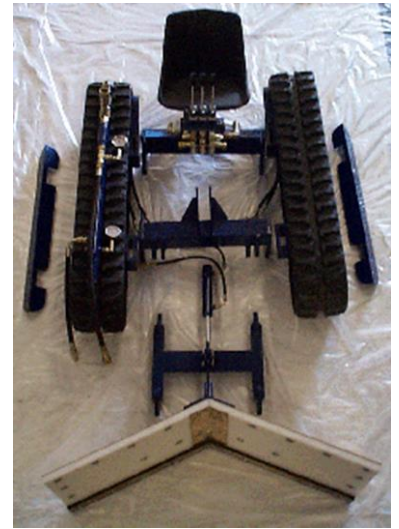
Whatever requirements you or your client have we have a solution available and in the rare circumstances we don't have one readily available, we'll work with you and your client to find one. NESL have been put to the test many times in the past and have always been able to provide an innovative, cost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

The mover system comprises four major components:

- The Mover Vehicle
- The Hydraulic Power Pack
- The Reels & Umbilical's
- The Lobe Pump

### The Mover

Is designed to be passed through a standard twenty-four-inch manway and reassembled inside the tank at the manway with only two personnel are required inside the tank for assembly which typically takes around twenty to thirty minutes. Once fully assembled only the operator is required inside the tank. All components are all certified for use in a Zone 1 area (ATEX Group II Cat 2) and the power pack is certified for use in a Zone 2 area (ATEX Group II Cat 3).



### Hydraulic Power Pack

Units are supplied either as double or triple units. The doubles will operate the mover and the lobe pump and the triples add a third hydraulic outlet for use with a progressive cavity pump if required. Both power unit versions are available as either canopy versions or open sets.

Each unit is fitted with a certified spark arrestor and a chalywn safety shutdown device installed for added protection. Lifting eyes are provided for crane lifting on-site where required.



### Reels & Umbilical's

Two one-hundred-meter umbilicals contain a feed and return hydraulic line and the mover umbilical has an additional airline hose for the operator breathing air supply. The sheath of the umbilical is anti-static.

The reels are manually operated with the mover system and 15m extension hoses are provided to link the reel units to the power pack for oil feed.



### Lobe Pump(s)

The Lobe pump is placed into the tank once the mover is complete and moved out of the manway area. The lobe pump is mounted on a stainless trolley and is operated by the mover operator during cleaning operations.

Bauer pipework should be sourced and used for the in-tank sections of pipework when using the lobe pump.





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