

ORDNANCE AUTOMATIC RECOVERY SYSTEM

The Ordnance Automatic Recovery System (OARS) is a "lift and descend" self inflating air bag system allowing for the controlled subsea and surface movement of UXO Ordnance.

In its NATO format, it has been in service around the globe with Military users for over 20 years, clearing shipping lanes and protecting infrastructure and communications.



Key Features:

- Capable to depths of eighty metres.
- Microprocessor controlled rate of ascent and rate of descent.
- Programmable activation/inflation delay up to 45 days.
- 500kg or 1000kg lifting capacity.
- Diver or remote activation options.
- Optional 200m initiation cable.
- Lightweight composite 300bar cylinders.
- Low magnetic option to NATO standards.
- A wide range of custom options available.

OARS - Operation Overview

- The dive/salvage team preset the inflation time delay. OARS is then deployed subsea and attached to the target. The unit is activated by the diver (or remotely). The time delay allows the diver to get to a safe distance.
- Upon activation, a solenoid valve is automatically opened. Inflation of the lift bag takes place. Ascent rate is then controlled by a microprocessor and a pneumatically operated dump valve which releases or adds air as required. OARS then maintains ascent at 2.5 metres per second (+/- 0.5)
- Once at the surface, the target can then be towed to a destination for destruction or disposal.
- The OARS unit can then be armed for descent, returning the target back to the sea bed at the same controlled rate. OARS is recovered by the diver prior to any further action.
- After use, the system is reset and prepared for deployment by the user.