



Unique Group
Buoyancy & Ballast



SEAFLEX

Seaflex Unexploded Ordnance Lifting & Safe Disposal System (UXO-LSDS) Overview

Helping contractors work more safely,
efficiently and profitably since 1987.

www.uniquegroup.com



The Seaflex UXO-LSDS - Safe, Simple Disposal

Proven Track Record

By pooling world-class technical expertise from within Unique Group's Diving, Survey and Buoyancy & Ballast divisions, the Seaflex UXO-LSDS has been developed to support all those working in the field of mine recovery.

The system is based upon the robust Seaflex Mono Buoyancy Unit design, which has a proven track record over 20 years within the rigours of the offshore industry and is already in service with some navies as a "dumb" lifting device.

Remote Release via Acoustic Transponder

This is now integrated with housing for as many 9L, 300 bar composite cylinders as may be required, plus a Sonardyne Lightweight Acoustic Release Transponder (LRT), to form the Seaflex LSDS.

Once the enclosed mine lifting bag is secured to the unexploded ordnance via a long lifting sling to maintain safe distance, the LRT is remotely activated so as to fill the bag with only as much air as is required to commence the lift - and the unexploded ordnance can then be safely towed away for disposal.

Dual Inflation System, for Double The Safety

The integration of brand new Pressure Maintenance Valve (PMV) technology with the fitting of an increased number of Pressure Release Valves (PRVs), eliminates the risk of failure of the system due to over-pressurisation. Working with known UXO weights and water depths, the LSDS can be precisely filled to begin the recovery, with the excess air generated during the lift being safely vented from the PRVs.

Multiple Size Options

The Seaflex UXO-LSDS comes in 2 standard sizes at 500kg and 1t, but can be supplied in sizes from 250kg to 5t capacity. As many cylinders can be provided as may be required to fill the unit supplied.





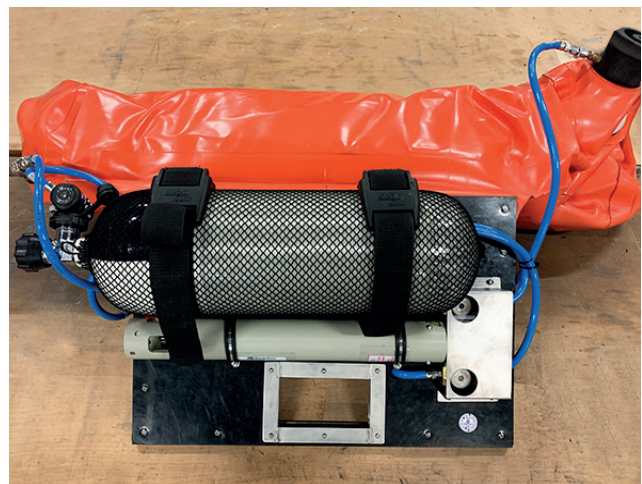
Key Features and Benefits at a Glance

For Your Ease of Operation

- Simple "Plug and Play" straight out of the box
- Deployable by divers or by ROV
- Lightweight (approx 2% of lifting capacity)
- Packs down small, easily transported & handled
- Dedicated transit case can be provided
- Lightweight composite cylinders
- Market-leading Sonardyne Acoustic Release Transponders

For Your Peace of Mind

- Proven, certified 5:1 factor of safety on each model
- Fitted with multiple Pressure Relief Valves and Pressure Maintenance Valve
- High performance structural fabric canopy
- Structural through-strop for transmission of lifting loads
- Magnetic and non-magnetic specifications available



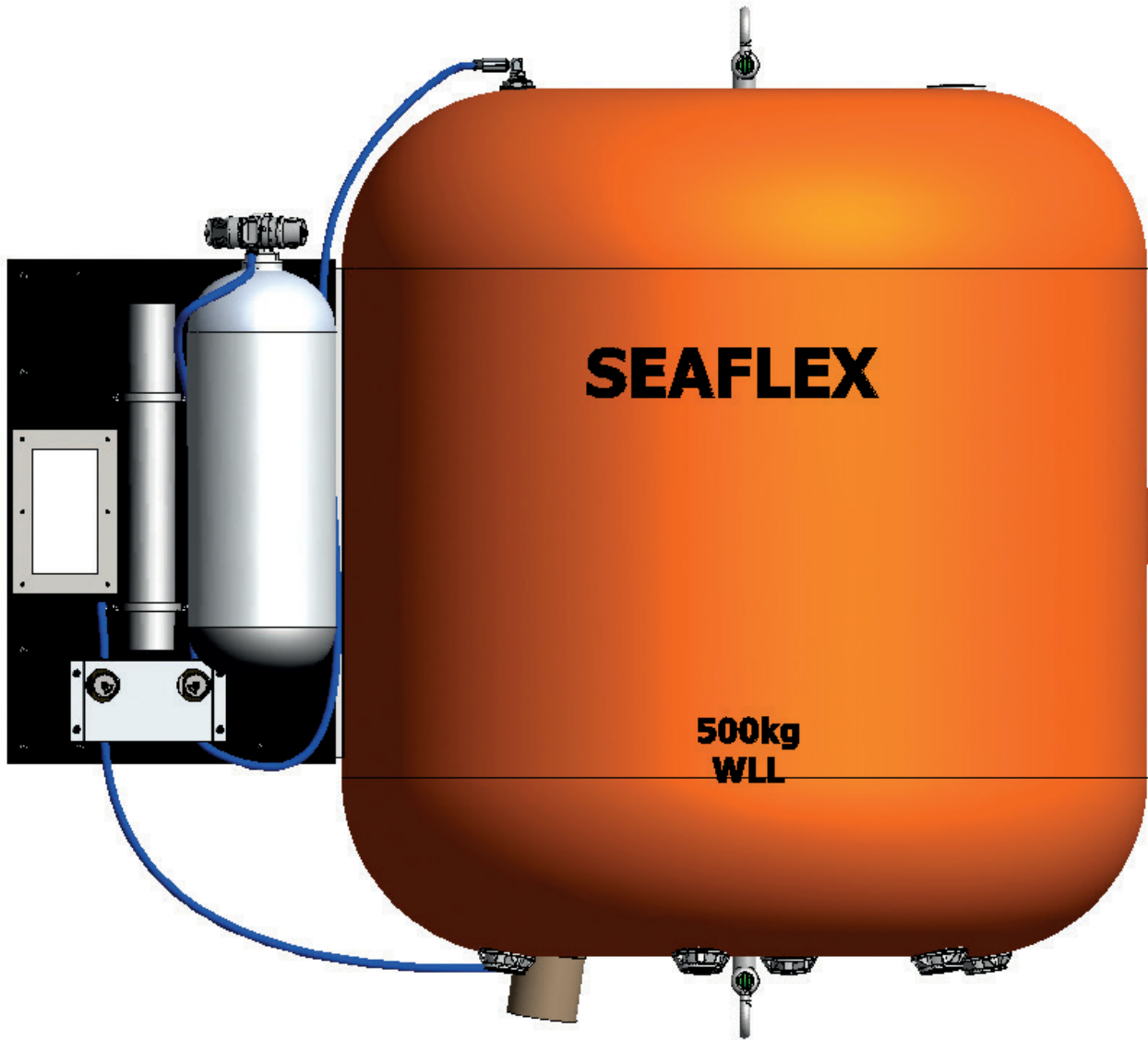
Model No	Inflated (Kgs & Mtrs)			Packed (Kgs & Mtrs)			
	Lift	D	H	Wt	L	W	H
UXO-LSDS-250	500	0.6	1	8	0.4	0.2	0.1
UXO-LSDS-500	500	0.85	1.5	10	0.3	0.3	0.15
UXO-LSDS-1000	1,000	1	1.5	15	0.6	0.5	0.2
UXO-LSDS-2000	2,000	1.33	1.7	18	0.75	0.6	0.2
UXO-LSDS-3000	3,000	1.5	2.2	27	0.8	0.65	0.2
UXO-LSDS-5000	5,000	1.75	2.2	37	1	0.8	0.2





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Equipment

Marine
& Subsea

Diving &
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On-Site
Engineering

Specialised
Boats

Medical
Technology

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Our Credentials

Seaflex manufactured our very first range of lift bags for rental and sale to service the diving industry in 1987, in sizes up to 500kg.

Over 25 years later, our biggest standard bag is 200 times larger than that at an industry-leading 100,000kg and we employ around 30 skilled staff at our custom-built 30,000 square foot manufacturing facility in Cowes on the Isle of Wight.



In 2011 Seaflex was acquired by the Unique Maritime Group, a global provider of integrated support services for the offshore sector. Unique Maritime Group's expanding network of companies are specialists in ROV, diving, survey, NDT and engineering services. With the benefit of UMG's global footprint and support structure, Seaflex is these days even better placed than ever to meet the needs of its customers – no matter where in the world they are working, nor how challenging or urgent their requirement may be.

As you would expect of a company working in an industry where the concepts of quality and safety are paramount, all our work is carried out within a system which complies with the ISO 9001- 2008 Quality Management Standard for full traceability – and we now have also gained ISO 14001 Environmental accreditation and ISO 18001 Health and Safety accreditation for our manufacturing operation. We have also had independent verification of the compliance of our Seaflex WaterLoad™ bags with LEEA 051 guidelines and of our Buoyancy bags with the requirements of IMCA D-016. ABS have also issued us with full Product Design Assessment (PDA) certification for our main products.

But any company can talk about the vast amounts of testing, certification and accreditation which have been carried on their products – fewer companies can substantiate such claims. Seaflex is one of those which can back up their claims – however, our credibility does not come from bits of paper: it comes from our customers, from the work we have been doing with them for over 25 years, and from the fact that they keep coming back to us time and time again.



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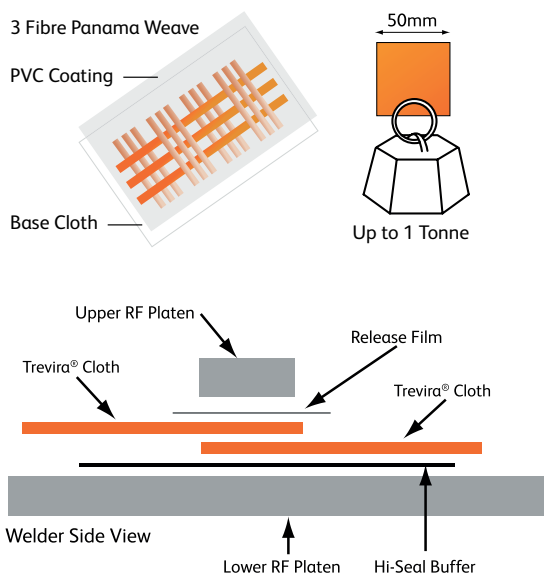
Technology, Service and Support

MANUFACTURING TECHNOLOGY

All Seaflex products are designed and manufactured in the UK.

Our bag canopies are constructed from High Tensile Trevira® Polyester base cloth (either 2 /2 or 3 /3 fibre panama pattern weave) coated with heavy duty UV stabilised PVC coating or, for special applications, polyurethane. Trevira is incredibly strong; a 50 mm wide 3/3 strip has a break load of approximately 1 tonne.

The panels for our bags are precision cut on our 15 metre long, 3 metre wide advanced automated table for perfect repeatability. Once inspected and approved panels are assembled by skilled personnel to using Radio Frequency welding to strict quality control standards.



CERTIFICATION

All our work is carried out within a system which complies with the ISO 9001-2009 Quality Management Standard as audited by Lloyds Register Quality Assurance for full traceability – and we have now gained ISO 14001 and ISO 18001 accreditation.

SERVICE

Whether for hire or sale, all Seaflex products are sent out fully tested and inspected against their build criteria. And we do also offer on-site support to our clients in the use of our products – this most often happens within the more complex buoyancy applications for our products.

In the event that your Seaflex product should suffer minor damage in service, we can supply an approved, boxed field service kit comprising of patches, a professional quality heat gun and instruction manual to make good minor leaks prior to product refurbishment.

We can also advise on the viability of carrying out more extensive repairs, which would typically be undertaken either at our factory or at one of our approved service centres.

SUPPORT

Our support philosophy is “Wherever, Whenever”. This underlines the Seaflex commitment to not just sending out tested, proven products in proper shipping crates and with the most comprehensive documentation package in the business – but to assisting our customers in every way possible throughout their time using our products, whether the job is a hire project or an equipment sale.

We offer worldwide support to our customers via either email or phone from head office in the UK and via our ever-growing network of offices and partners around the world.

You can put your trust in Seaflex – we won't let you down.





Our Philosophy

Whenever, Wherever

We have a simple philosophy here at Seaflex: we will do everything within our power to deliver what our customers need from us, whenever they need it and wherever they need it.

That simple philosophy is born of several different levels of understanding:

- An expert understanding of how to design, manufacture, prove, deliver and support best-in-class bags for ballast or buoyancy.
- An in-depth understanding of the regulatory environments in which we and our clients operate – both onshore and offshore.
- The desire to understand our clients' businesses, and to work with them to achieve the best possible technical and financial outcome for them.

We are not complacent: we are only where we are due to our ability to keep our band of loyal customers happy, whilst adding to them by demonstrating to others the value which we can bring to their businesses. If we let that slip then we are nowhere. And that is why we keep investing in our business: to better serve your business. Hence the brand new factory capable of producing 3,500 tons of lift and water load testing capacity each and every month. And hence us holding and managing the largest global rental fleet of buoyancy and ballast bags.

As you continue to invest in us, we'll continue to invest in you. We are always happy to hear from customers new and old alike as to how we may better serve you. We will travel the world to meet with you at your convenience, and the doors of our factory are always open and the kettle is always on for visits from those who would like to see what we do, and how we do it, for themselves.





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