



Unique **SEAFLEX**

A Unique Maritime Group Company



Seaflex Inflatable Buoyancy Unit (IBU) Overview

Inflatable Buoyancy Units - Flexible, multi-purpose buoyancy

Reliable and Controllable

Seaflex enclosed IBUs are the system of choice where reliable, controllable buoyancy is required. They are particularly suited for installation buoyancy on pipeline float-outs, beach pulls and river crossings. Our IBUs have also been used in applications such as vessel and platform draught reduction in limited water depths, and as pontoons for temporary bridges and docks.

Constructed from High Tensile Trevira® Polyester 3/3 base cloth coated with heavy duty UV stabilised PVC coating, our IBUs come fitted with stainless steel camlock terminated inflation points and 38 mm diameter pressure relief valves each capable of releasing 80 cubic feet (2.3 cubic metres) of air per minute. The IBU operates at 2 psi over ambient to ensure maximum volume, and therefore full displacement, during operation.

Designed for Ease of Handling

The multiple attachment points of our IBUs assist in spreading the lift points across the load. Their relatively low vertical heights and short strop configurations are a key advantage where water depth is limited or a load needs to be supported near to, or on the surface. We have designed-into all our IBUs an intuitive system of ensuring accurate strop spacing; a spacing link strap joins the fixed ring strop terminations together. And, just like our range of ALBs, our IBU's have integral ladders to facilitate handling. Typical 5 tonne capability IBUs weigh just 46 kg, making them an easily handled item for two rigging crew.

User-controlled Buoyancy Variation

During the mobilisation phase, and particularly important during demobilisation, the air can be introduced and released in a controlled manner into single or multiple units to allow the load to settle gently into the correct position, or to reposition it if required, before the IBUs are vented and then released in a completely safe manner with no uplift force remaining.

Optimised for Horizontal Deployment

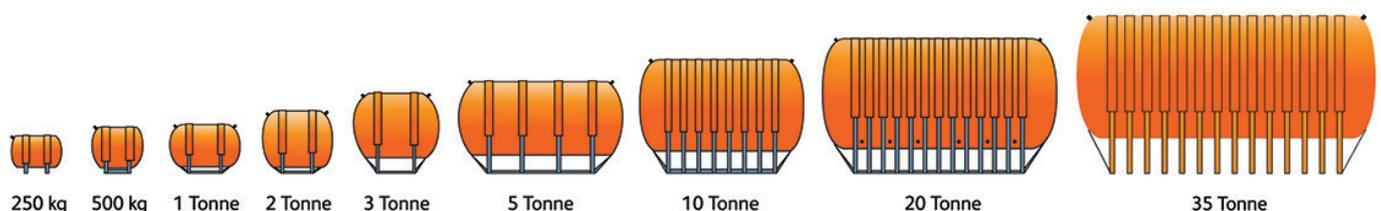
IBUs are not designed to find their own level on inflation; they must be held approximately horizontal to prevent tearing of the strop pockets. Working within this limitation, the unique Seaflex end-strop system forces air through the IBU as it is inflated - to prevent bulging and resulting failure. Circumferential strops built into the IBU itself deal with shallow angles, enabling the IBU to cater to load angles of up to 10 or 15 degrees (where greater working angles are expected, Seaflex Mono Buoyancy Units are the perfect answer).

Our IBU's offer significant advantages over ALBs where static as opposed to dynamically-ascending buoyancy is required, especially in relatively shallow water. They are also very stable under way and can be towed, dependent on load and sea state, at up to 2 knots.

Extremely Cost-Effective: Hire Options Available, Transport Costs Minimised

Seaflex has over 25 years' worth of experience of the manufacture, rental and maintenance of the world's largest stock of certified, best in class, IBUs. Our fleet of IBUs have worked in every ocean and sea, and on every populated continent.

With a shipping weight of approximately 1% of inflated lifting capacity, Seaflex IBU's are first choice for contractors requiring significant, compact lift; a single 20 foot shipping container can hold a massive 500 tonnes of buoyancy.



Key Features and Benefits at a Glance

For Your Peace of Mind

- 5:1 design WLL factor (strops 7:1).
- Fitted with multiple pressure relief valves to ensure safety during use.
- Tested and proven inverter line attachment point.
- High performance structural fabric canopy.
- RF welded seams.
- Unique end-strop design prevents stress and bulging on the extremities of the IBU.
- Rental units inspected and tested between every single job.



For Your Ease of Operation

- Ideally suited to extreme shallow waters.
- Buoyancy of individual or multiple units can be increased or decreased as required from the surface.
- Webbing harness includes multiple fixed steel lifting rings fitted with spacing straps.
- Integral end strops to prevent rotation.
- Integral handling ladders.
- 2 x 3/4 inch BSP standard inflation/deflation valves with 316 stainless steel male Camlock adapter as standard.
- Leaffield Marine high flow pressure relief valves (PRVs).
- Delivered ready for immediate use with universally compliant documentation: IBU specific log book containing certification, service records and operating manual.

| Model No | Inflated (Kgs & Mtrs) | | | | Packed (Kgs & Mtrs) | | | | |
|----------|-----------------------|-----|-----|-----|---------------------|------|------|------|-----------|
| | Lift | L | H | Ø | Wt | L | W | D | No/Pallet |
| 250 IBU | 250 | 1.1 | 0.7 | 0.6 | 5 | 0.40 | 0.20 | 0.10 | 40 |
| 500 IBU | 500 | 1.1 | 1.0 | 0.8 | 9 | 0.50 | 0.25 | 0.15 | 30 |
| 1t IBU | 1,000 | 1.6 | 1.2 | 1.0 | 12 | 0.60 | 0.25 | 0.20 | 20 |
| 2t IBU | 2,000 | 1.6 | 1.4 | 1.3 | 19 | 0.70 | 0.35 | 0.25 | 11 |
| 3t IBU | 3,000 | 2.0 | 2.0 | 1.5 | 34 | 0.80 | 0.40 | 0.35 | 6 |
| 5t IBU | 5,000 | 3.5 | 2.0 | 1.5 | 46 | 0.90 | 0.50 | 0.35 | 5 |
| 10t IBU | 10,000 | 3.5 | 2.5 | 2.0 | 68 | 1.10 | 0.80 | 0.30 | 3 |
| 20t IBU | 20,000 | 5.0 | 3.4 | 2.3 | 120 | 1.20 | 0.90 | 0.35 | 2 |
| 35t IBU | 35,000 | 6.5 | 3.4 | 2.6 | 300 | 1.50 | 1.00 | 0.50 | 1 |

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 Air Lift Bag is 100 times larger than that at an industry-leading 50,000 kg 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 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.



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.

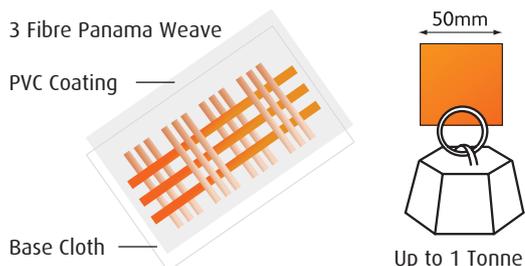


Seaflex - Technology, Service and Support

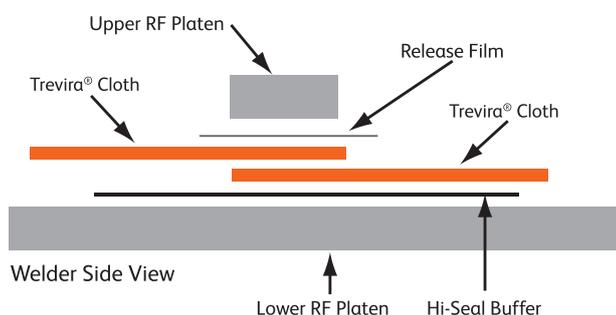
Manufacturing Technology

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.

Put your trust in Seaflex. We won't let you down.



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