AIS

Subsea

HPS buoyancy

Customised buoyancy for deep-sea vehicles

The success of deep-water exploration and intervention in challenging deep-sea environments relies on precision, reliability and advanced technology. As a key component is ensuring the buoyancy and stability of the manned, autonomous and remote operated vehicles (ROVs), our HPS (high performance syntactic) buoyancy range plays a crucial role in facilitating seamless operations beneath the ocean's depths.



Subsea

HPS buoyancy

HPS buoyancy is a range of high-performance, low-density syntactic foams that can be tailored to your specific deep-sea buoyancy applications.

HPS buoyancy can be utilised to make manned, autonomous and remote operated vehicles neutrally buoyant and resistant to hydrostatic pressure. Allowing them to remain at deeper depths for extended periods of time.

It can be supplied in block form for client assembly or precision-machined in-house to exact custom shapes using our 5-axis CNC machining facility. To meet your precise specification, we also offer options for colour, coating and surface finish.

Benefits

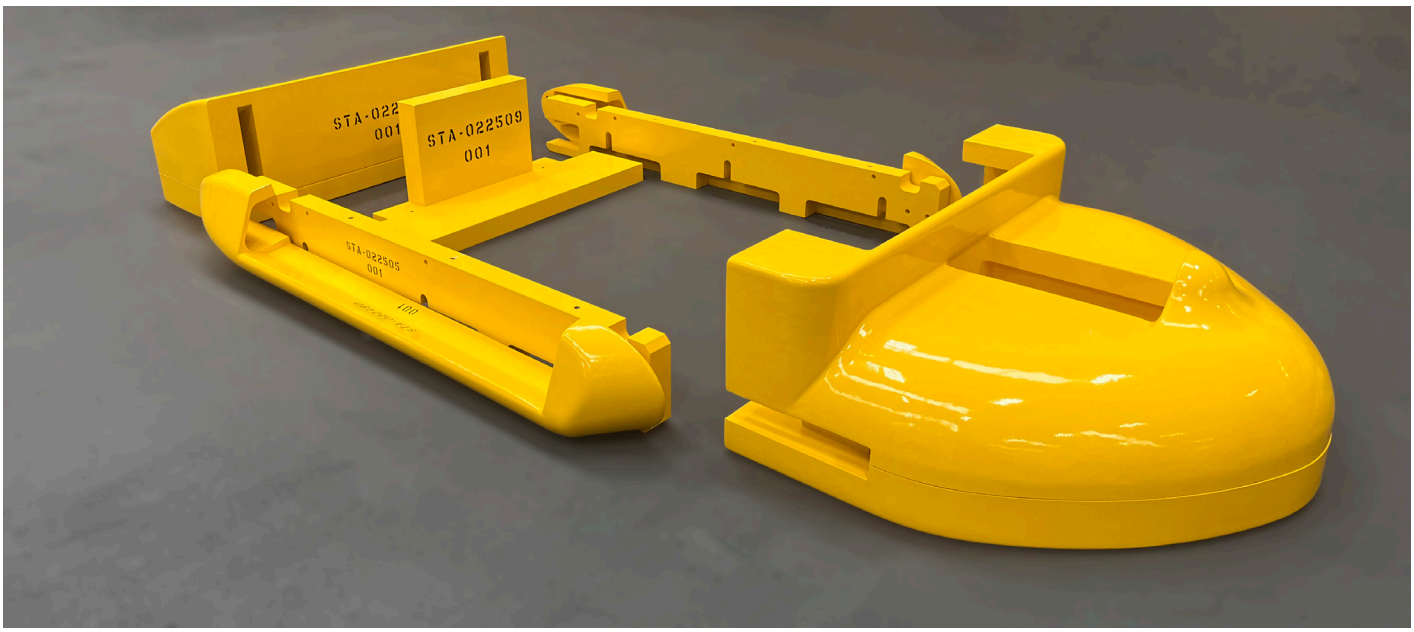
- Block form or custom moulded shapes available
- In-house CNC machining facility
- Fast turnaround times
- Various grades available

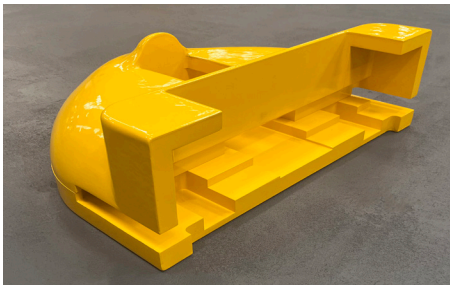
Applications

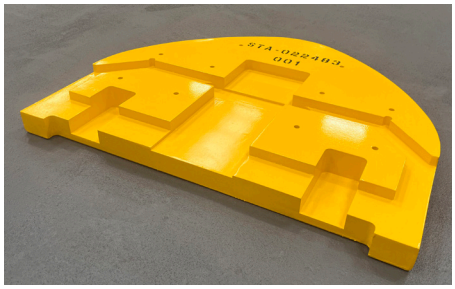
- Remotely operated vehicles (ROVs)
- Autonomous underwater vehicles (AUVs)
- Human occupied vehicles (HOVs)

HPS buoyancy specification

HPS buoyancy	Max operating depth (msw)	Density (kg/m³)	Max operating pressure (bar)
HPS2000	2000	400	280
HPS3000	3000	425	450









For further details about our products or services, please contact us:

t: +44 1695 712000 **e:** info@aisltd.com **w:** aisltd.com

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