

# MANUFACTURING TRANSDUCERS

Maritime Services provides manufacturing and through-life support services of highly complex electronic integrated systems, sub-systems and modules for high integrity applications.





BAE Systems is a world leader in the design, development, manufacture and through-life support of advanced underwater weapon systems, sensors, countermeasures and mine warfare systems. We offer a total capability in transducer manufacture. Bringing together specialist equipment and advanced production techniques, we have demonstrated outstanding quality at extremely competitive prices.

In order to support the next generation of underwater weapon technology, the company has now made significant investment to re-establish itself as a centre of excellence in sonar transducer manufacture.

By combining advanced equipment and tooling with innovative processing techniques, BAE Systems is now able to supply both the military and commercial markets with a complete capability, covering the design and manufacture of transducers, hydrophones, projectors, transponders and complete arrays to the highest quality assurance standards.

#### Design

BAE Systems offers a complete transducer design service. We work with our customers to develop requirements and designs, creating 3D models and 2D drawings using our in-house computer aided design and analysis facilities. Alternatively, production information can be derived from existing drawing packs for build to print contracts, and BAE Systems offers particular expertise in reengineering obsolete and legacy products from limited design data and product samples, or providing dual source solutions for current designs.

#### Manufacture

Our world class manufacturing facility has been set up to meet the most stringent customer requirements for ultra-high quality at minimum cost. The combination of modern equipment, and novel processing techniques ensures consistent performance and exceptional quality at a surprisingly low cost.

Materials storage, preparation and manufacturing operations are undertaken by certified operators in a fully climate-controlled, secure environment, and in line with current best practise in health and safety. Production batches of anywhere between 10 and 100,000 units can be accommodated with lead times as short as 8 weeks, subject to design.

#### Test and analysis

BAE Systems offers full test and analysis facilities on-site, including a 5m x 7.5m x 5m, in door, fresh water test tank, hydrostatic pressure test facilities up to 100 bar and a range of specialist equipment for the characterisation of transducers both in and out of water.



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