

Trusted and innovative electronic  
manufacturing capabilities

# Complex Equipment Design & Electronic Manufacturing

Vital advantage where it counts

[baesystems.com/electronicmanufacturing](http://baesystems.com/electronicmanufacturing)



**BAE SYSTEMS**

# Trusted and innovative design and manufacturing capabilities



## Manufacturing for complex assets

At BAE Systems we design, build and test total manufacturing solutions to deliver world-class performance.

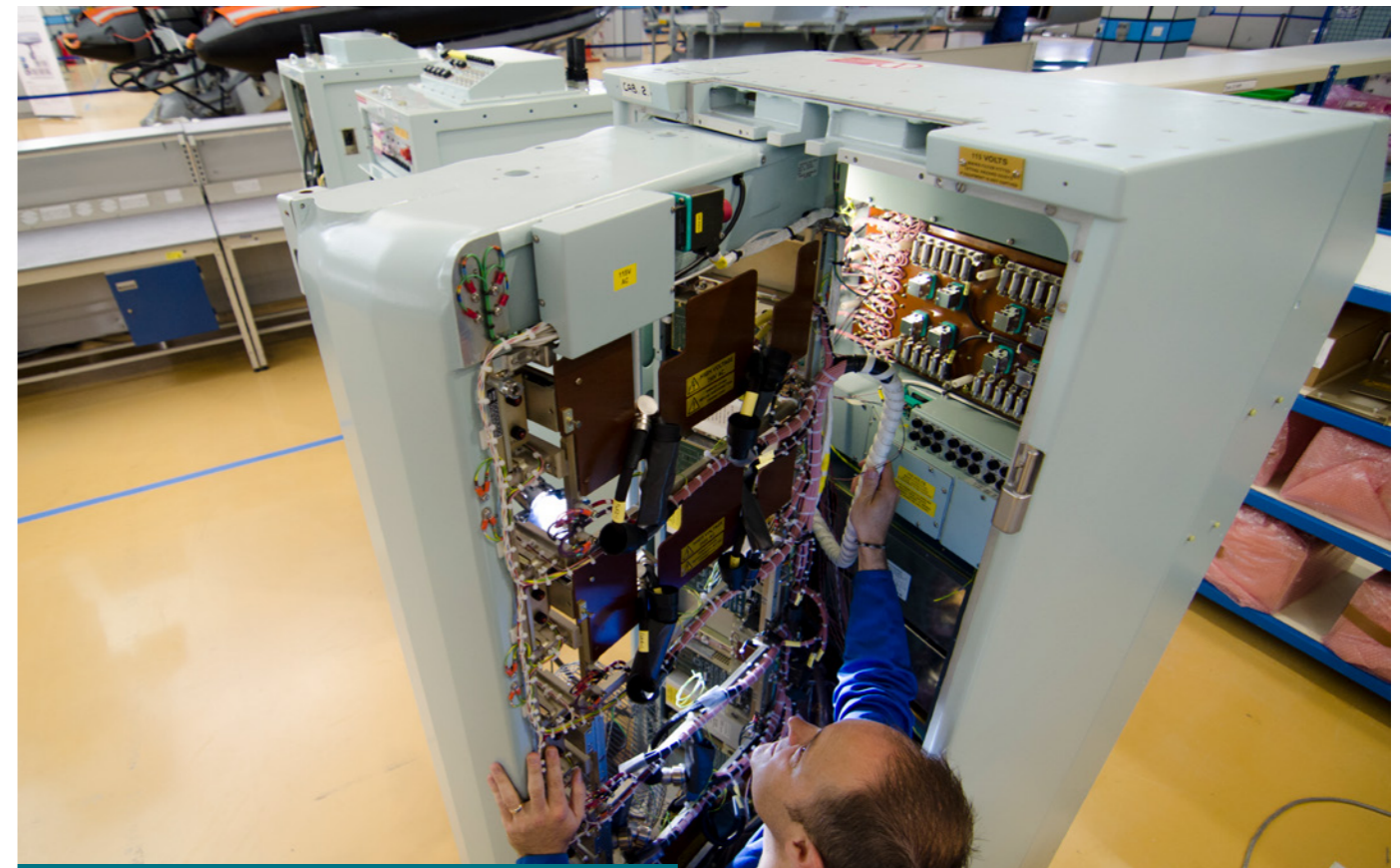
We provide a trusted and innovative total manufacturing capability for highly complex electronic integrated systems, sub-systems, modules and printed electronic circuit assemblies where quality is paramount.

Our ethos is to add value through our people, scale, capability and engineering know-how, allowing us to provide a vital advantage to our customers where it counts.

With more than 40 years of expertise and experience, our highly efficient, multi-skilled teams use the latest lean manufacturing and Six Sigma techniques to deliver world-class performance.

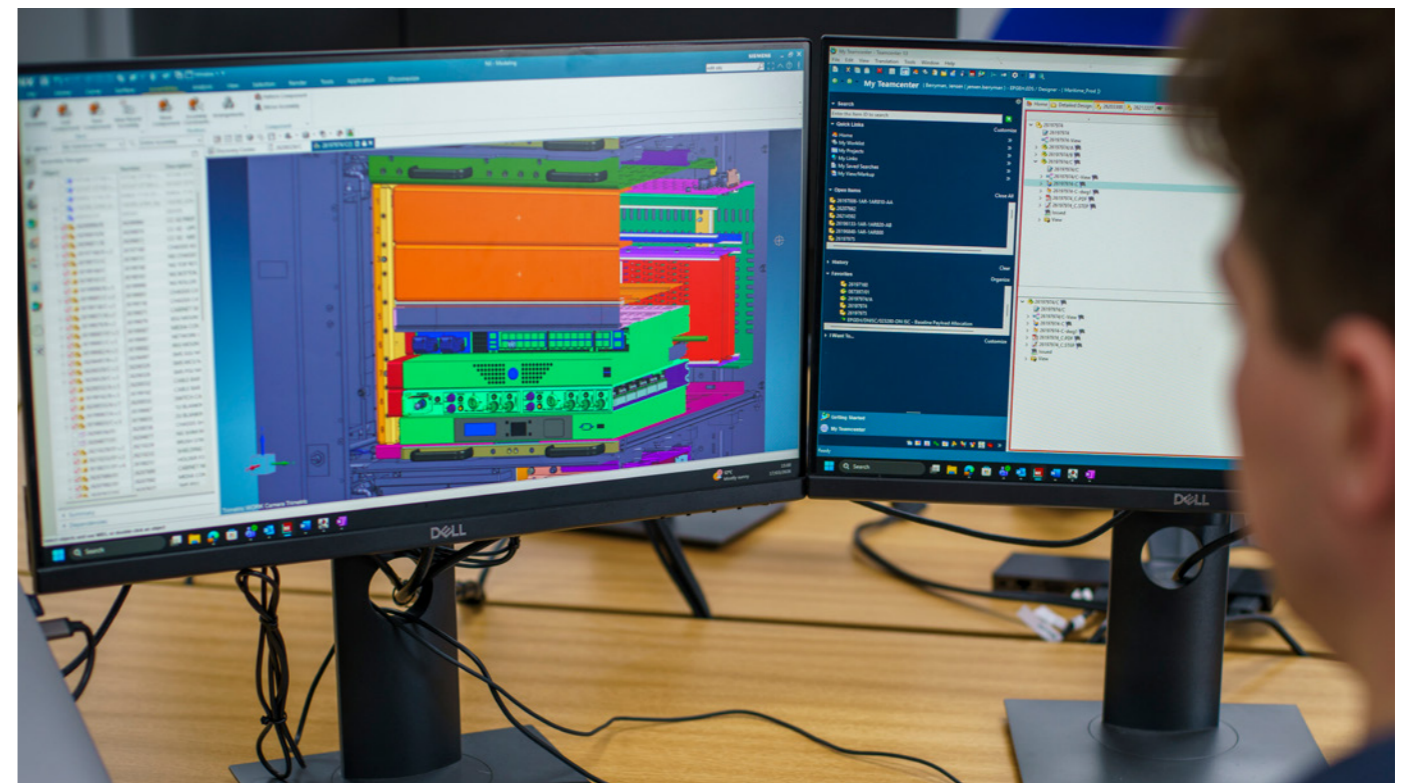
We continue to build on our long and successful track record of delivering innovative technology, helping our customers operate effectively by being at the leading-edge of a rapidly evolving manufacturing environment.

[baesystems.com/electronicmanufacturing](https://baesystems.com/electronicmanufacturing)



## Design and development

We provide full end-to-end design and development of original electrical equipment. We deliver fully validated solutions from the ground up. From initial concept and detailed design through to prototyping, testing, and final production providing customers with innovative, future-proof systems engineered for long-term service and support.





## Assembly, integration and test

### Delivering world-class performance

Our flexible, agile manufacturing capabilities mean we tailor our services to meet your individual requirements with ease, efficiency and affordability.

The scale of our operations and our comprehensive range of test facilities allows us to offer through-life support for all our products, wherever they are in the world.

With capabilities ranging from simple point-to-point individual cable work to multi-way connector harnesses, we work with you to provide the best solutions.



## Complex printed electronic circuits

### Designed and manufactured to cope with harsh environments

Our state-of-the-art proven automated processes, produce advanced, complex printed electronic circuit assemblies designed and manufactured to cope with harsh environments in a broad range of applications across multiple sectors and industries.

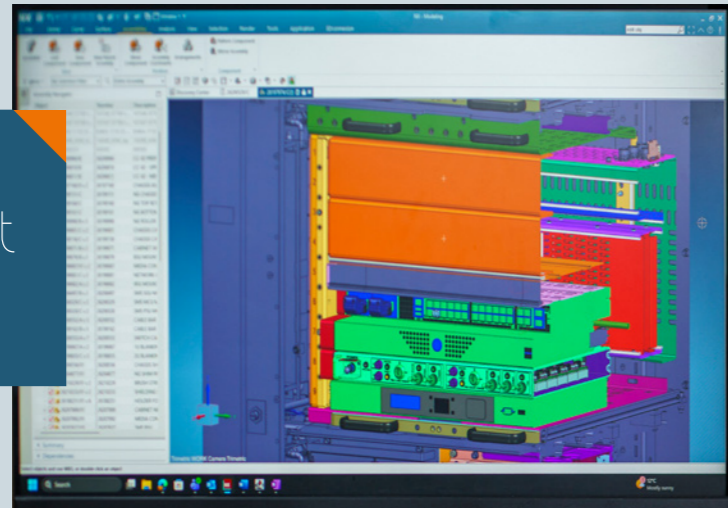
We excel in the manufacture of prototypes, through to high volume, high complexity surface mount, lead through hole and mixed technology assemblies and modules on a wide variety of board substrates.

Using the latest cutting-edge manufacturing methodologies allows us to offer our customers a

world-class capability including digital, analogue, microwave and RF products, vapour phase, selective soldering, encapsulation, convection reflow, exotic board substrates and conformal coating.

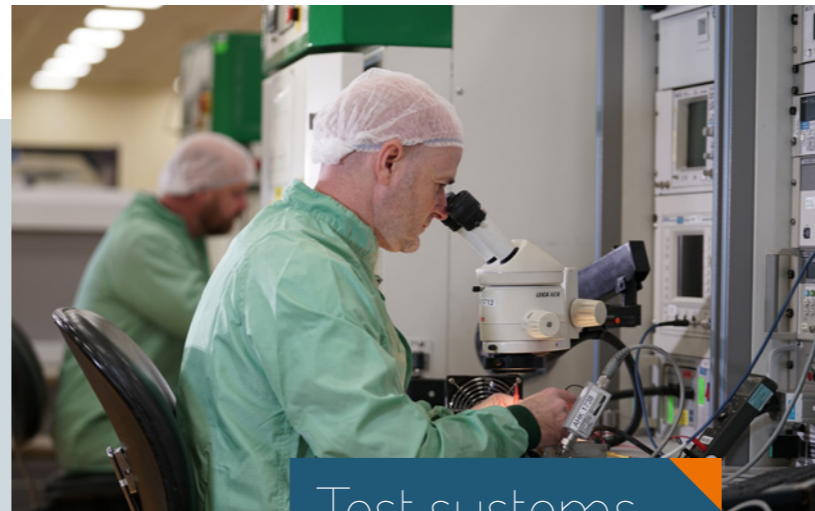
From product concept to production, our expertise allows us to take a flexible and agile approach and our customers benefit from the added value we offer through design for manufacture and design for test, with a significantly positive impact on acquisition and through-life costs, and lead times.

# Core competencies



## Design and development

Understanding and resolving difficult challenges.



## Test systems

Integrated in-house capability delivers and supports test solutions from concept through life.

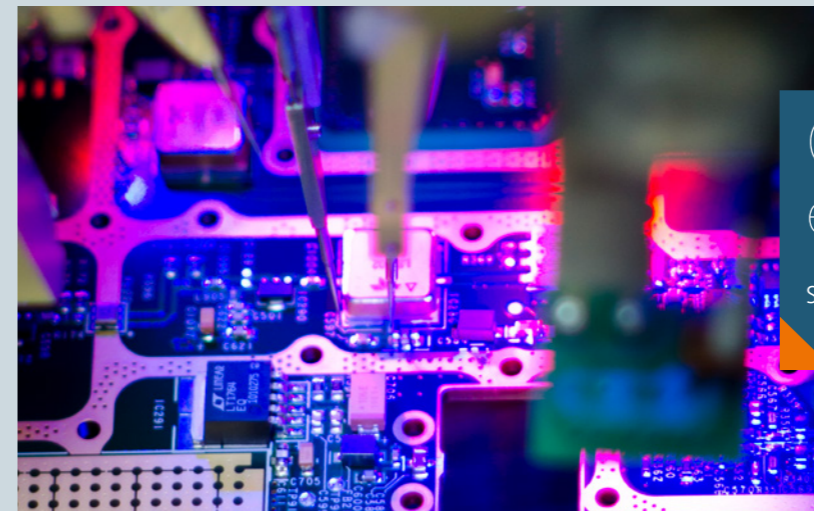
## Cabinet manufacture

From rapid prototyping to high-volume production.



## Customer support, spare and repairs

Flexible solutions including post design services and obsolescence management.



## Complex printed electronic circuits

State-of-the-art proven automated processes.



## Specialist services

Pressure systems, material assessment services, fibre optics and external training.

## Assembly, integration and test

Flexible manufacturing systems to meet customer requirements.



## Accreditations

- ISO9001
- EN/AS9100
- TickIT plus
- OHSAS18001
- ISO14001
- IPC-A-610, IPC/WHMA-A-620
- ITAR compliant
- Secure list x site
- Safety maturity matrix SMM level 5y



[baesystems.com/electronicmanufacturing](https://baesystems.com/electronicmanufacturing)

## Specialist and test services



## Tailored to individual requirements

To ensure your products are manufactured consistently and accurately, we offer extensive pressure testing of product hardware, together with the maintenance, repair and calibration of pressure test equipment and vacuum and purge equipment.

Thanks to our rapid response and prototyping capabilities, we can manufacture development quantities and urgent spares to production standards in short time scales.

Our expertise includes conformal coating, vacuum impregnation using an autoclave, spray applications, encapsulating using all types of epoxy resins and adhesives, vapour condensation reflow and the use of a mass spectrometer for checking the hermeticity of fitted components. We also offer vibration testing and full environmental stress screening as required.

With over 40 years of experience delivering test systems and solutions to the electronics, aerospace and defence industries, we are proud to offer test strategy and solutions consultancy services from concept to through-life support.

Test solutions are tailored to the requirements of individual customers and their products.

Depending on the product complexity and production quantity, solutions range from special-to-type automatic test equipment to manual testing using proprietary instruments.

We are experts in radio frequency, analogue and digital technologies.



## Customer support, spares and repairs

## Fully flexible support through life

To ensure your products are manufactured consistently our highly skilled and multi-disciplined manufacturing workforce is equipped with the experience and capability to deliver customer support to the very highest standard.

We offer fully flexible, through-life support including spares, repairs and upgrades, post design services, obsolescence management and field services being delivered anywhere in the world.



# Your preferred partner for electronic manufacturing solutions

We collaborate with our customers to manufacture high quality products across the maritime, land, air and space domains.

As a proven, responsive, strategic supplier and a valuable link within our customers' supply chains, we provide a level of service and support enhanced by our wide ranging capabilities for today's highly complex electronic manufacturing environment.

Our manufacturing solutions are used in the most demanding environments. From printed electronic and microwave circuits as part of the Typhoon fighter jet to full rate production of Archerfish mine neutraliser, we consistently collaborate with our customers to manufacture high quality products to meet and exceed requirements.

**BAE Systems**

**Manufacturing**

**e:** [mandlsales@baesystems.com](mailto:mandlsales@baesystems.com)

**w:** [baesystems.com/electronicmanufacturing](https://baesystems.com/electronicmanufacturing)

**Linked in** [BAE Systems Maritime](#)

This publication is issued to provide outline information only. No advice given or statements or recommendations made shall in any circumstances constitute or be deemed to constitute a warranty or representation by BAE Systems as to the accuracy or completeness of such advice, statements or recommendations. BAE Systems shall not be liable for any loss, expense, damage or claim howsoever arising out of the advice given or not given or statements made or omitted to be made in connection with this document. No part of this document may be copied, reproduced, adapted or redistributed in any form or by any means without the express prior written consent of BAE Systems.

Images © Crown Copyright.

Copyright © 2026 BAE Systems. All rights reserved.

BAE SYSTEMS is a registered trademark of BAE Systems plc

CM414525.02.06.v02