



# QUALIFICATION INSPECTION & TESTING

# EXPERTLY TESTED

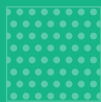
Qualification, Inspection, and Testing sets the standard for engineering here at Portsmouth Aviation.



TECHNICAL  
SERVICES



CNC  
MACHINING



METAL  
FINISHING



QUALIFICATION,  
INSPECTION  
& TESTING



METAL  
FABRICATION



PAINT  
& FINISHING

## What is Qualification, Inspection, and Testing?

Qualification, inspection, and testing are critical processes aimed at ensuring the reliability, performance, and compliance of engineering products or systems.

These processes involve assessing and validating the design, manufacturing, and functionality of various components, materials, or entire systems. These processes help identify potential issues, weaknesses, or deficiencies early in the development or manufacturing stages, allowing for necessary improvements, adjustments, or corrective actions. Ultimately, qualification and testing contribute to delivering safe, reliable, and high-quality engineering solutions that meet industry standards and customer needs.

## Why Portsmouth Aviation for Qualification, Inspection, and Testing?

Portsmouth Aviation's long-standing history in engineering services means we only output the highest quality products.

Qualification, inspection, and testing are essential parts of this process and our experience in the defence and aerospace sectors equip us with an expansive set of approvals and testing equipment.



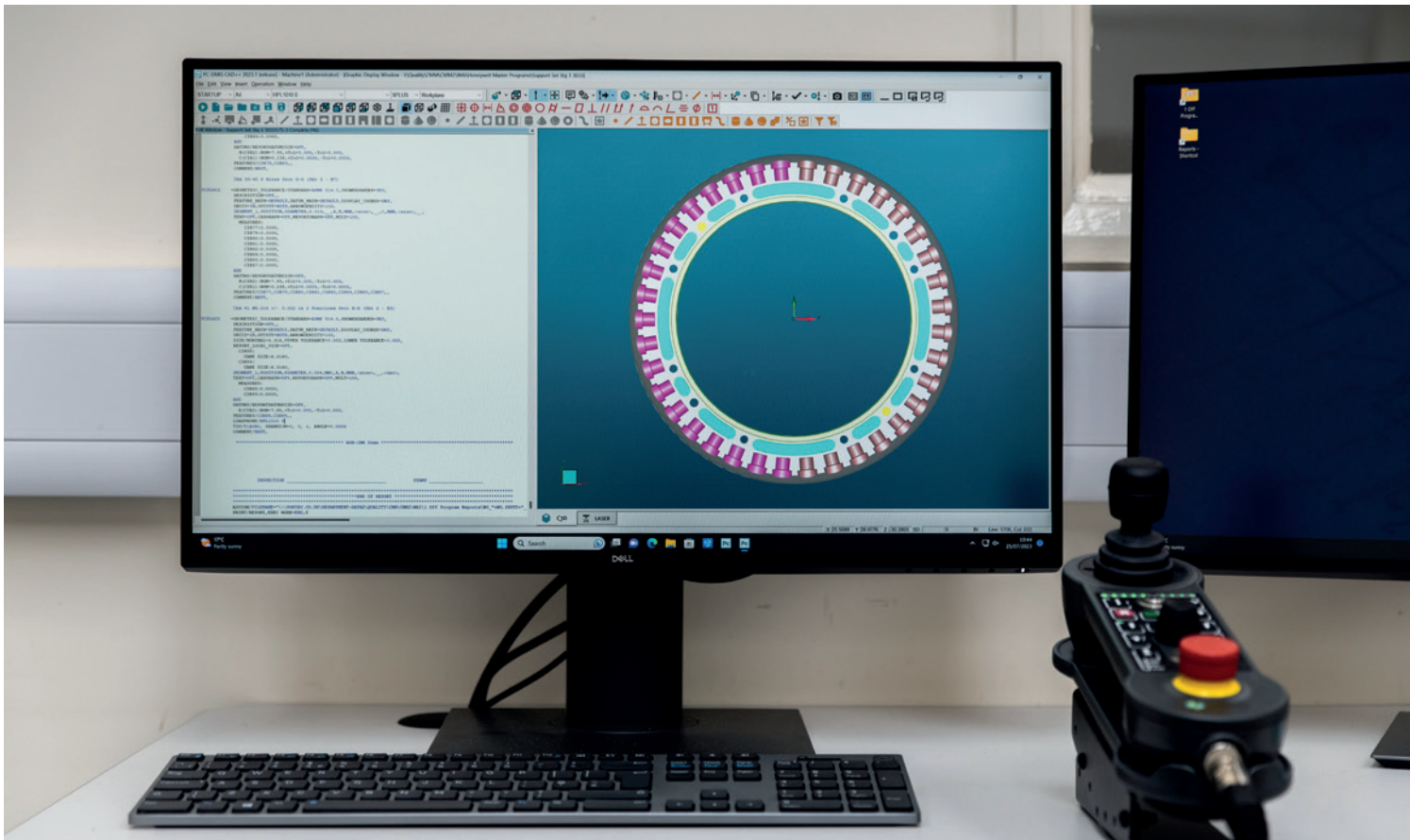
# OUR TESTING SERVICES

ASSURANCE

EXCELLENCE

RELIABILITY

INNOVATION



Our company takes pride in its comprehensive inspection capabilities, strategically located within two temperature-controlled dedicated inspection rooms. The primary machine shop inspection facility houses two advanced hexagon CMM machines.

One of these machines boasts on-board laser scanning capabilities, in addition to the traditional touch probing functionality. For enhanced measurement accuracy of complex and large shapes, we have a dedicated inspection bay equipped with a cutting-edge 3D laser scanner. This scanner enables the generation of virtual images for precise comparison with associated CAD models. It also offers the convenience of reverse engineering functionality.

In addition to our CMMs and laser scanner, we have two optical measuring machines located in temperature-controlled facilities. These machines excel in accurate and rapid measurements, primarily catering to 2D parts.

Likewise, our welding and fabrication departments benefit from the expertise of qualified and experienced Quality Engineers and Technicians. We even have on-site Level 2 and Level 3 NDT inspectors to ensure the highest quality standards.

To support our in-house design and manufacturing activities, we have an onsite mechanical test facility. This facility, managed by a qualified and experienced test engineer, can perform static testing of up to 30 tons. While primarily intended for our own needs, we can also accommodate outside subcontracted testing. If required, we offer the generation of comprehensive inspection and test reports, including First Article reports in accordance with AS9102 and specific dimensional reporting, on a subcontract basis.

Our commitment to quality extends throughout our operations, backed by state-of-the-art inspection and testing facilities manned by a highly skilled team.

To support our metal plating operations, we have an onsite laboratory that conducts solution analysis and salt spray testing. Furthermore, a dedicated Quality Engineer is embedded within these departments, also providing coverage for our painting and powder coating facilities.

## Our approvals

### **AS9100** Quality Management System

1. Current revision AS9100 rev D
  2. Initial approval to AS9100 achieved in 1997
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### **ISO9001** Quality Management System

1. Current revision ISO9001:2015
  2. Initial approval to ISO9001 achieved in 1994
- 

### **MPAS** Military Approved Packaging Scheme

1. Approved to the MPAS standard
  2. Initial approval (as part of the ISO9001 approval) since 1994
- 

### **ISO14001** Environmental Management System

1. Current revision ISO14001:2015
  2. Initial approval to ISO14001 achieved since 2005
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### **DAOS** Design Approved Organisation Scheme

1. Current revision 2 since 2010
- 

### **JOSCAR** Registered

1. PA fully registered on the JOSCAR supplier accreditation register
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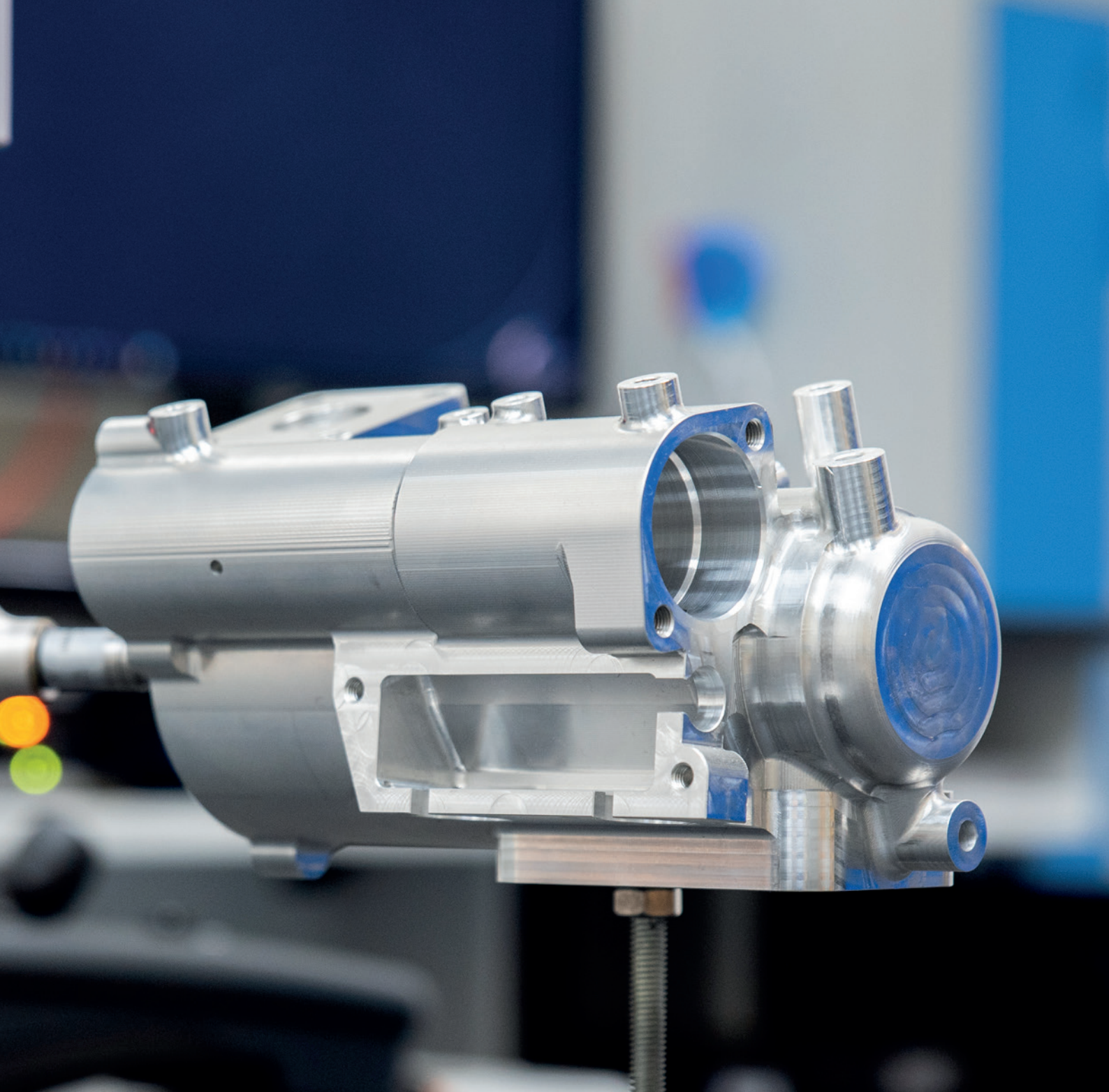
### **SC21** Supply Chain for the 21<sup>st</sup> Century

1. Currently hold Silver Award for commendable levels of achievement
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### **Cyber Essentials Plus**

1. Currently hold profile version 3 for the whole organisation





We take great pride in our ability to provide the high level of quality products produced and using the state-of-the-art inspection and test equipment, ensure the customer's needs are always met or exceeded.

**Pete Vaughan, Quality Manager**



# CONTACT OUR TEAM

Whatever your engineering need, our expert design, build and manufacturing teams are on hand to help your business create a tailored solution. Find out how we can support you on your project.

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