



# PORTSMOUTH AVIATION LIMITED



## NON-DESTRUCTIVE TESTING (NDT) CAPABILITIES

With over 70 years in Mechanical Engineering, PA offers a complete engineering solution to ISO 9001 standards from Design through Development, Test, Trials and Manufacture to the finished product. Non-Destructive Testing (NDT) forms an important part of these activities and PA offers the following services.

- **Magnetic Flaw Detection**
- **Penetrant Inspection**
- **Hardness and Conductivity Testing**
- **Etch Inspection**

### **Current Approvals**

- Augusta Westland Magnetic Particle, Fluorescent Particle, Nitric Etch Hardness & Conductivity Testing
- TWR Lucas Aerospace Magnetic Particle, Fluorescent Penetrant Hardness & Conductivity Testing

## MAGNETIC FLAW DETECTION

Tiede W50 Bench Unit. 2000 Amps AC Peak.  
Maximum Component Length 460 mm  
Current Flow, Magnetic Flow and Induced Current

Magtronics Mag 40 Bench Unit. 4000 Amps AC  
Peak ½ Wave Rectified DC  
Maximum Component Length 1000 mm  
Current Flow 300 mm Coil  
AC Hand Yoke Conforms to BS6072



## PENETRANT INSPECTION

Water Washable Fluorescent Penetrant Ely  
Britemor 4455  
Level II Sensitivity  
Maximum Component Size 600mm x 200 mm

## HARDNESS & CONDUCTIVITY TESTING

Vickers HV 0.2 to HV 20,XY Staging  
Rockwell HRC & HRB  
Superficial Rockwell.HR15,HR30 & HR45

## ETCH INSPECTION

Nitric Acid Inspection of Alloy Steels  
Maximum Component Size 300 mm x 200 mm x 200 mm



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