

AAT

Testing &  
Inspection



AAT are an industry leading supplier of specialist services and products to the UK Wind Industry, having created and developed the 'one-stop-shop' approach to supply, installation, inspection, test, repair and maintenance of a wide range of lifting, access and safety equipment.

AAT are based in the town of Ayr, Scotland, and operate throughout the UK, Ireland & Europe. Their modern offices provide administrative support to their site operations as well as storage, workshop & testing facilities.



AAT is structured into five separate departments:

- Testing & Inspection
- Projects & Repair
- Site Operational Support
- Blades & Towers
- Equipment Sales & Hire

AAT's services are suited to the following renewable sectors:

- Wind Energy, on & offshore
- Wave & Tidal
- Solar Energy
- Battery Storage
- Hydrogen Energy

**AAT Renewables**  
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# Testing & Inspection

AAT's Testing & Inspection Department provide their clients with a wide range of in-service testing & inspection services including:

- Non-Destructive testing of Welds & Metals
- Load Testing
- Ultrasonic Testing of Tower, Nacelle & Blade Bolt Pre-Load
- Mechanical Testing of Tower, Nacelle & Blade Bolts
- Wind Turbine Statutory Inspection:
  - Access Ladders
  - Service Lifts
  - Fall Arrest & Restraint Systems
  - Anchors
  - Lifting Beams
  - Pressure Systems
  - Service Cranes
  - Hydraulic Cranes
  - Rescue & Evacuation Kits
  - Fire Extinguishers
  - Fire Detection & Alarm Systems
  - Security Systems

- Inspection of Meteorological Masts
- Thorough Examination of Lifting Equipment
- Portable Electrical Appliances
- Fire Detection & Suppression Systems
- Inspection of Personal Protection Equipment
  - Fall Protection
  - Sea Safety & Survival



AAT's Testing and Inspection Department (T&I) department provides a wide range of specialist testing services:

#### Non-Destructive Testing Of Welds And Metals

- Magnetic Particle Testing
- Dye Penetrant Testing
- Eddy Current Testing
- Alternating Current Field Measurement Testing
- Ultrasonic Testing
- Phased Array Ultrasonic Testing
- Thermographic Testing
- Vibration Testing

#### Load Testing

- Testing of Wind Turbine Service Cranes, chain hoists, davits, runway beams and monopile cranes
- Testing of nacelle and dock-side hydraulic cranes

#### Ultrasonic Testing of Tower, Nacelle and Blade Bolt Pre-Load

- Time of flight ultrasonic testing to identify bolt pre-load
- Phased Array Ultrasonic Testing (PAUT) to identify bolt defects

#### Hydraulic Testing of Tower, Nacelle and Blade Bolts

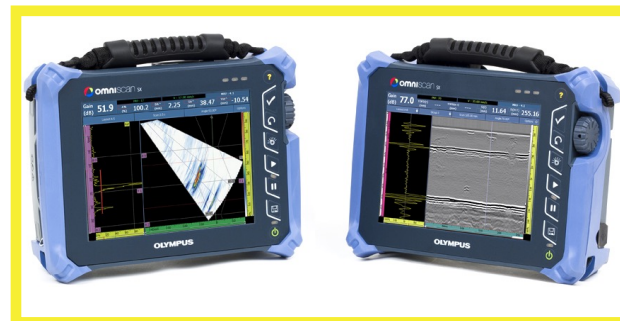
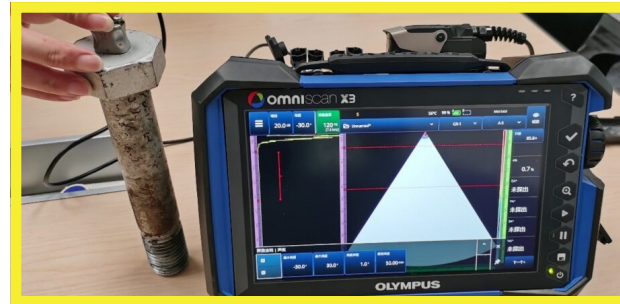
- Bolt torque
- Bolt tensioning

#### Lightning Protection and Electrical Continuity Testing

- Meteorological Mast Lightning System Testing
- Wind Turbine Blade Lightning Protection Systems

#### Portable Electrical Appliances

- Office Equipment
- Tools & Site Equipment



AAT's Testing and Inspection Department (T&I) department provides a one-stop shop for the inspection of Turbine Mounted Safety Equipment (TMS)

#### Statutory Inspection of Wind Turbine Generator Turbine Mounted Safety Equipment:

- Access Ladders
- Service Lifts
- Fall Arrest and Restraint Systems
- Anchors
- Lifting Beams
- Pressure Systems
- Service Cranes
- Hydraulic Cranes
- Rescue and Evacuation Kits
- First Response Equipment
- Portable Fire Extinguishers
- Fire Detection and Alarm Systems
- Security Systems

#### Inspection of Meteorological Masts

- Visual Inspection
- Bolt torque checks
- Lightning Protection

#### Thorough Examination of Lifting Equipment

- Lifting Accessories
- Lifting Appliances
- Pulling Equipment

#### Fire Detection and Suppression Systems

- Fire, Heat, Smoke and Gas Detection Systems
- FireTrace
- MAUSS STIXX

#### Inspection of Personal Protection Equipment

- Fall Protection
- Sea Safety and Survival Equipment

#### Inspection of Rescue and Evacuation Equipment

- Sealed and unsealed controlled descent devices
- Personal evacuation devices

#### AAT are members of the following:

- Lifting Equipment Engineers Association (LEEAs)
- Association of Lorry Loader Manufacturers and Importers (ALLMI)
- British Standards Institute (BSI)

#### AAT are accredited to the following:

- ISO 9001
- ISO 14001
- ISO 45001
- Achilles UVDB

AAT are currently working toward accreditation for BS EN ISO IEC 17020:2012 Conformity assessment. Requirements for the operation of various types of bodies performing inspection.



Thank you for taking the time to read AAT's  
information booklet. For further information  
please contact AAT at:

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