

WELCOME

FACILITIES

Clean Room

- ISO Class 5 or ISO Class 7
- Internal Size: 3000mm(L) x 2070mm(W) x 2240mm(H)
- Separate gowning room
- Consumables and attire available

Tensile & Compression Testing

- Testing of materials and surface coatings to ISO and **FCSS Standards**
- Loads up to 10kN
- Load accuracy to +/- 0.1%
- Strain rates 1 to 1000mm/min
- Sampling rate of 2000 Hz, with data acquisition up to 1000 Hz

Large Thermal Vacuum Chamber

- Bakeout to ESA & NASA Standards
- Vacuum to 1x10-9 mBar
- Temperature range -40°C to 200°C
- Programmable Thermal and Pressure Cycling
- 1 x ISO-K 500 Port
- 8 x ISO-KF 50 Ports
- LV and Data passthroughs
- · Composite Pirani and Cold-Cathode Guages for continuous pressure monitoring
- Regenerative TQCM
- Dry gas repressurisation
- · Remote monitoring of all key parameters using our cloud



Small Vacuum Chamber

- Internal Size: 300mm x 300mm x 300mm
- Pressure down to 1x10⁻³ mBar
- · Optics Testing up to 300mm Dia, under ambient and vacuum

Metrology and 3D Scanning

- Aberlink Axiom Too CMM with selection of probes (sub-micron accuracy)
- · 3D scanning of mediumlarge structures (submilimeter accuracy)
- · Reverse engineering and measurement service
- Full integration with CAD systems for generation of technical drawings

3D Printing

- Flashforge Creator Pro 3D Printer
- · Print Area up to 227mm x 148mm x 150mm
- · Materials available include: PLA. ABS and PETG

Storage & Logistics

- Secure access control to lab space for authorised personnel only
- Separate area for safe storage of parts
- Full insurance available

TQCM Rental and Purchase

- Our TQCM module and control unit area available for use within the large vacuum chamber or for rental
- · Featuring dual thermally matched quartz crystals
- Realtime crystal monitorina and reaeneration for continuous process monitoring

Dedicated Cleaning and Assembly Area

- · Dedicated area for cleaning and assembly of both general purpose and sensitive equipment
- · ESD Safe area
- Electronics and PCB Assembly
- Wiring & Harness Assembly for bespoke projects
- · MLI Layup facilities

Spectroscopy and Optics

- Wide-band light sources (350nm - 3000nm)
- Low loss self-verifying monochromators
- Detectors (350nm 3000nm)
- Assorted optomechanical hardware
- Configurable with vacuum chambers and cleanroom

Office Space

· Secure access to dedicated office space for use whilst on site

VEIN

 Full coverage in both the office and lab to the wireless auest network. Wired network connection available on request

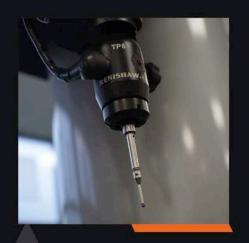
Observation Area

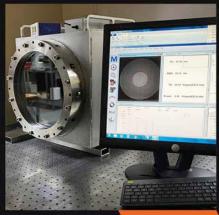
- All testing can be witnessed on site from a dedicated viewing area outside the lab
- Testing can be live streamed to remote locations if necessary

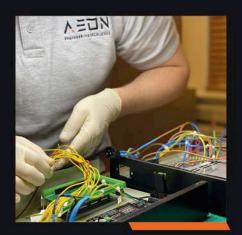
Lab space and facilities are available for exclusive use

- Fully trained engineers are available to perform or assist with performance and required testina
- Ample parking
- · Located close to Stoke on Trent and Crewe stations, M6 and A50/M1















To find out more please contact:

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