CRANAGE EMC & SAFETY

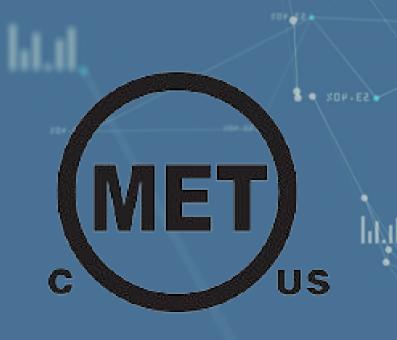
An overview of our accredited product testing and inspection facilities



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ABOUT US

Cranage EMC and Safety is a family run UKAS accredited test laboratory, founded nearly 30 years ago. We are UKAS accredited to evaluate your product for EMC, Electrical Safety, Mechanical, Environmental and Energy Related performance

We're based in North Shropshire, but if your equipment is large or in-situ, our engineers can come to your premises.

Service is at the heart of what we do and our team of experienced engineers take the time to guide, support and advise you.

We have the experience and facilities to test a vast range of products, from prosthetic limbs to illuminated road signs to fire alarm panels.





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WHY CHOOSE CRANAGE?

We are proud to be a UKAS accredited test laboratory, which gives manufacturers assurance of impartiality, technical competence and accurate results.

Your collaboration with Cranage is about more than just testing and we pride ourselves on our service levels. You will work with a specialist engineer, who will be in regular contact during your project so that you are always up to date with progress. As we have remained a family run business, we are able to be flexible and adapt to our customers needs.

Regardless of whether you're planning to export to Europe, North America, Australia or Saudi Arabia, we can support you with product compliance.

A BRIEF OVERVIEW OF OUR CAPABILITIES ENCLESSING

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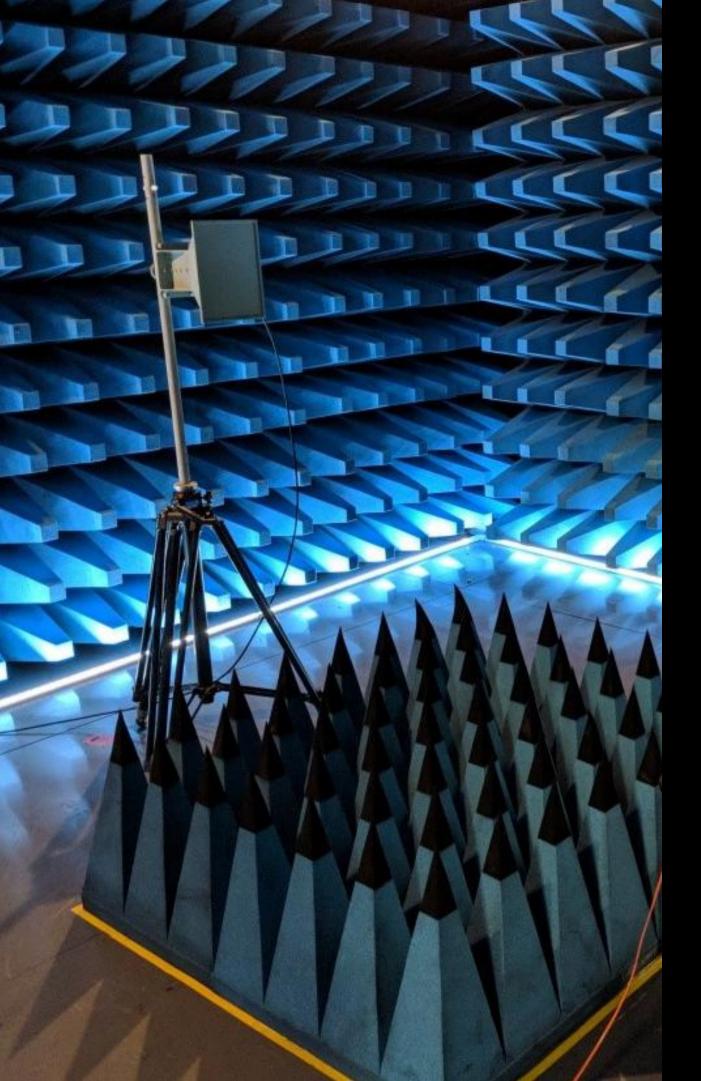
EMC TESTING

our multiple test chambers.

support and solutions.



- We have extensive, UKAS accredited (No.1833), EMC test facilities for worldwide market entry.
- We offer a pre-compliance test service for initial fault finding, as well as full compliance testing in
- Our engineers work alongside you to offer advice,



EMC CAPABILITIES

Our EMC facilities include the below:

Semi-Anechoic chamber: Radiated E-Field up to 26GHz, Radiated H-Field up to 30MHz. Equipment weight up to 1 tonne

Fully Anechoic chamber: For radiated RF immunity up to 6GHz, equipment weight up to 500kgs

Conducted emissions up to 400 MHz

Stargate SG64: Antenna and wireless device testing

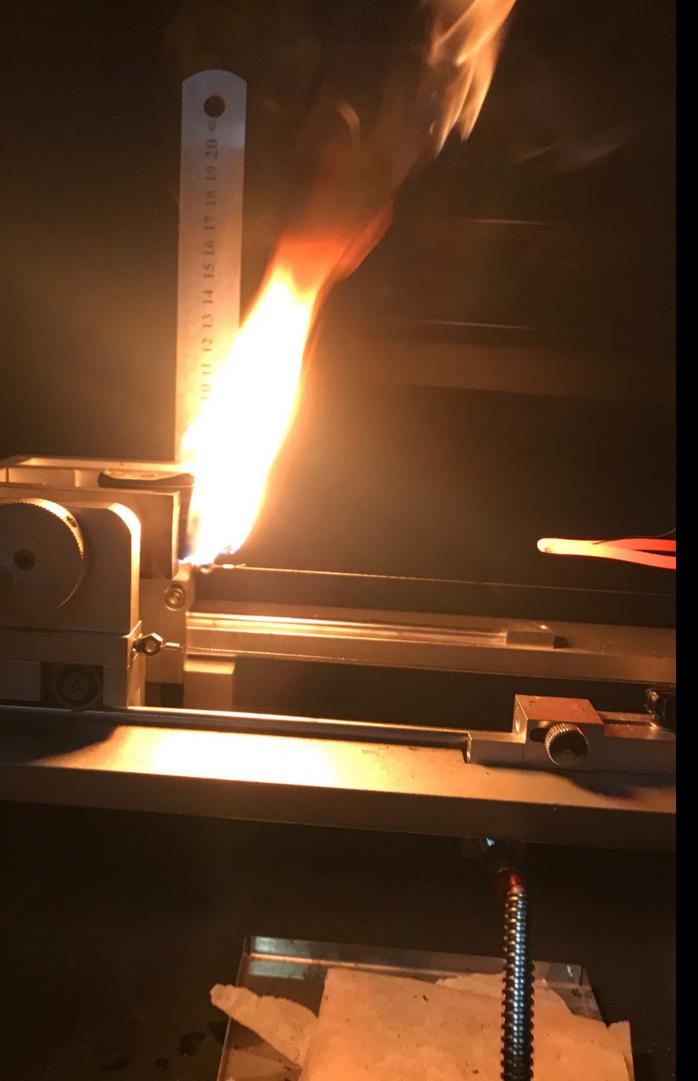
Electrostatic Discharge: up to 15kV

Surge Testing: up to 24kV

GTEM cell: For Radiated RF Immunity up to 6GHz and test level up to 100V/m



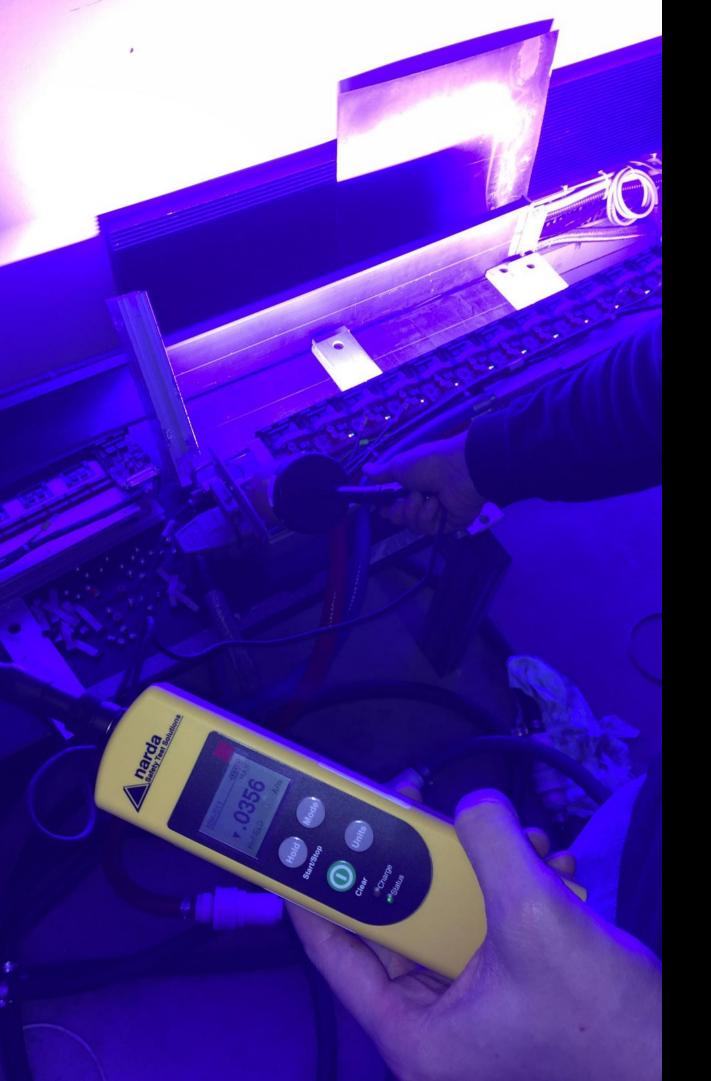
A BRIEF OVERVIEW OF OUR CAPABILITIES PRODUCT SAFETY TESTING



PRODUCT SAFETY TESTING

We are UKAS accredited (No.1833) to test your electrical product against specified standards relating to health and safety .

All of our services are in one location, meaning we can offer you a complete range of EMC, Safety and Environmental testing, without the need to use different test labs.



SAFETY TESTING

Our safety facilities include the below:

CTI & PTI: Comparative Tracking Index & Proof Tracking Index, up to 600V. Test methodology, for which we are UKAS accredited, is specified in IEC standard 60112

Drop Testing & Tumble Barrel: Drop testing height variance from 0.6m to 2m. Maximum sample weight 5kg. Tumble barrel maximum weight 5kg, 5-15 revolutions per minute

Flammability, Needle Flame & Glow Wire: used to evaluate if plastic materials are flame retardant, we test up to 1000°C

EMF Testing & Surveys: Electromagnetic Field testing is used to ensure people are not exposed to harmful fields. This forms part of the Health & Safety at Work Act



MECHANICAL TESTING

Stability and Mechanical Hazards Mechanical Strength (push/pull force up to 500N) Torsion (up to 50Nm) Impact Resistance (0.1 to 2J) Creepage and Clearance (0.5mm resolution) Ball and Impact Hammer Test Fingers and Probes Core Flexing (Strain Relief) Pull and Torque

Crushing and Abrasion per minute) 200kN) (up to 1000grams)

- **Resistance to Rust Corrosion Endurance and Durability** Cord, Flexing (up to 270 degrees, up to 30 cycles)
- Fixture design and construction Crush Resistance (compression force up to
- Resistance to adhesion, shearing and scratching

ELECTRICAL TESTING

Overload and Short-circuit Protection Abnormal Operation Locked rotor (Motor appliances) Speed (Traction drives) Endurance and Durability Protection against access to live parts Stored Energy and Residual Voltage Insulation Resistance and Coordination Moisture Resistance **Component Application Analysis and Fault** Simulation Voltage (up to 28kV AC RMS, up to 40kV DC) Current: up to 1000A AC 50/60Hz Resistance $(0.1m\Omega \text{ to } 100M\Omega)$ Frequency (50/60/400Hz)

Energy (Wh) and Power (VA, W, VAr) with 0.01% accuracy Harmonic Distortion (up to 2kHz) Inrush Current Analysis (up to 500A) Temperature rise (up to 600K) Leakage current (0.01µA to 50mA true RMS, 15Hz to 1MHz) Touch Current and Protective Conductor Current Electric strength (up to 5kV AC 50/60Hz, up to 6kV DC) at operating temperature Earth Bond and Continuity ($0.5m\Omega$ up to 40A at 50/60Hz)Transient Overvoltage and Impulse Voltage (up to 24kV)

A BRIEF OVERVIEW OF OUR CAPABILITIES ENVRONMENTAL TESTING



ENVIRONMENTAL TESTING

Our environmental testing facilities allow us to replicate extreme conditions that your product may be exposed to during field use.

The environmental facilities at Cranage cover a wide range of conditions, such as extreme temperature fluctuations, water ingress and the impact of solar radiation.

We are UKAS accredited for part of our environmental facilities.



ENVIRONMENTAL TESTING

Our environmental facilities include the below:

Water, Dust & Solid Object Ingress Protection: We are UKAS accredited for EN 60529, which covers IP1X-IP6X dust and solid objects, and IPX1-IPX8 water ingress

Salt Spray: Testing to standard IEC/EN 60068-2-52 where we measure the corrosion of metals, plastics, paints and surface coatings to saline solution

Temperature & Humidity: Temperature range -70c to +1300c Humidity range 20% to 98%

Solar Radiation: 280nm to 3000nm

Shock & Vibration: Shock up to 500m/s² Vibration 5Hz to 2kHz

CONTACT US FOR QUESTIONS, QUOTES, AND MORE INFO

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& SAFETY

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