CoMech
Calibrating measuring equipment since 1985

When you need metrology solutions from a world class provider, talk to CoMech. We're big enough to deliver and small enough to care.

Asset Management

Keeping track of your assets can be a headache. We know this, which is why we take the pressure off and take care of asset tracking for you.

Our management systems meet the requirements of BS ISO 55000, including our innovative TrackRecordPro.

TrackRecord Pro

Our innovative TrackRecordPro is the ultimate in asset management. TrackRecordPro has the advanced reporting capabilities you'd expect from CoMech, with a simple user-friendly interface. Let TrackRecordPro take care of your asset maintenance, upgrades and replacements.

Inspection

We employ a wide range of laboratory and on-site inspection equipment and technology. This is driven by high-volume, programmable inspection software to suit large volumes of production components capable of producing detailed and scaled drawings of discrete aspects of complex components.

Repair

Broken, obsolete or custom-made metrology equipment? Our talented engineers can extend the life and usability of your most valuable measuring assets by re-engineering them or replacing them as needed.

Design

From the concept stage to visualisation and representation of your final product, our skilled team are here to deliver a first-class service. CAD drawing and technical documentation are our speciality, and our solutions span over numerous industries and sectors.

Calibration & Metrology

Whether your equipment is electrical, mechanical, or physical, CoMech will provide you with comprehensive support to calibrate your equipment to the highest degree of accuracy.
Our team work from our ISO/IEC 17025 accredited labs, and they specify in high voltage testing, temperature, dimensional and load and mass verification.

MiniProf

For easy-to-use instruments for measuring cross-sectional profiles, look no further than the world-renowned MiniProf! Patented in 1992 by Greenwood Engineering, we're proud to be the sole agent for the sales, calibration and maintenance in the UK and Ireland.

CoMech Metrology has been established and calibrating metrology equipment since 1985. Over the years we've enjoyed growing from strength to strength and acquiring loyal customers through our pioneering way of thinking and our fantastic team of staff.

We are proud to be working with all customers and suppliers across the world. The services we provide include calibration, repairs, inspection and asset management, alongside the design and manufacture of rail gauges in use across the UK railway network.

We don't like to stand still, so we're constantly expanding and innovating. We're the sole agent for the sales, calibration and maintenance of Greenwood Engineering's MiniProf full-contact profile measuring instruments for the UK and Ireland.

To find out what CoMech can do for you, just give us a call. Our friendly team are here to help, and you're sure of a warm welcome!

CoMech

TOTAL ACCURACY SINCE 1985

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Our team work from our ISO/IEC 17025 accredited labs, and they specify in high voltage testing, temperature, dimensional and load and mass verification.

Our specialist services also cover the following areas:

- MiniProf instrument calibration
- High voltage electrical calibration
- Load and mass verification
- Mechanical calibration including micrometers and length bars
- Pressure gauge calibration
- Temperature calibration
- Torque calibration
- Component calibration
- Instrument calibration
- Dimensional measurement & inspection (CMM, optical, laser tracker)

About CoMech

CoMech is a metrology specialist with roots firmly in the rail sector but also provides measurement solutions to the military, automotive, and aerospace sectors. We offer our range of services including asset management, calibration, inspection, and measurement solutions to some of the most prominent companies in the UK.

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CoMech

MiniProf

by

GREENWOOD ENGINEERING A/S

Denmark

CoMech are now responsible for the sales, calibrations and repairs of the world-renowned MiniProf range of profile measuring instruments within the UK and Ireland.

The MiniProf units are becoming recognised on a global scale with over 2,500 users in over 50 countries.

Patented in 1992 by Greenwood Engineering, these easy-to-use instruments are for measuring cross-sectional profiles of various rails, brakes and wheels. Each unit features a full-contact, knife-shaped contact point for seamlessly cutting through layers of dirt, grease, frost, leaves and more, which makes them suitable for using in virtually any working environment. Made from titanium, they operate with a small magnetic wheel and wireless Bluetooth connectivity.

All members of the MiniProf family use a single contact point, which collects a vast amount of individual points in one single swoop of the magnetic wheel. These measurements are collected in less than five seconds with an accuracy range of 9-11µm. The combination of Bluetooth connectivity and the professional Envision software gives users the opportunity to wirelessly take a vast amount of accurate measurements on PCs, Android smartphones and tablets.

Each instrument has an operating temperature range of -15°C to +35°C with a battery life of 10 hours or 1,000 Bluetooth measurements. The MiniProf range has been specifically made for the quality control, maintenance and safety regulation of rail tracks, wheels and brakes. They are ideal for using within rail depots and other specialist organisations around the world.

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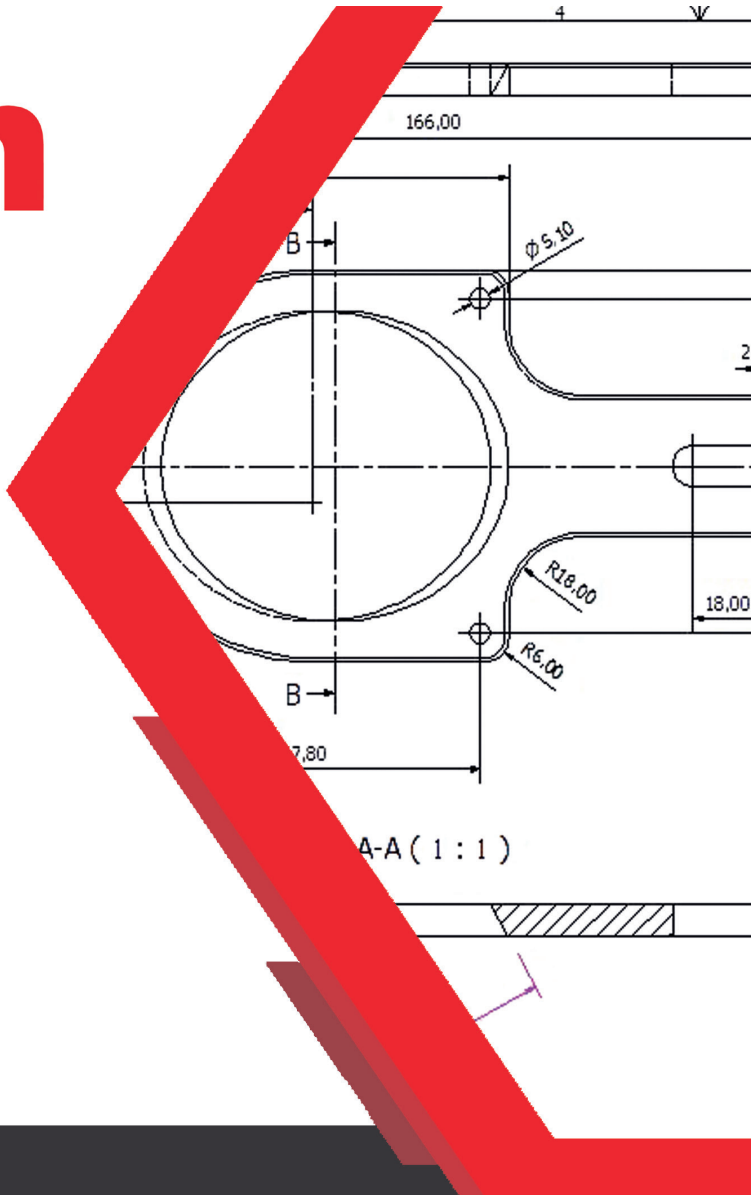
TECHNICAL DRAWING EXPERTISE GUARANTEED



CoMech Metrology employ technically-rigorous design engineering protocols for applications which span the full breadth of the rail engineering industry.

We offer innovative design techniques for the creation of bespoke rail gauges and solutions for the rail industry.

Our specialist design services also incorporate the following:

- Concept development
- Full 3D CAD and technical drawing preparation
- Qualification and certification
- Visualisation and animation
- Electro-mechanical element design
- Control system design and development
- Measurement system design and development
- Sensing and digital system integration

Our experience of all applications together with our staff's expertise, breadth of capability and experience deliver world-class engineering solutions.

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PORTABLE WEIGHING SYSTEM

We're glad to introduce PowerVe, the most innovative and hand-portable wheel force measuring system. It is able to statically measure the vertical forces on each wheel and wheelset of any rolling stock type and determine the vehicle's balance health.

The portable rolling stock weigher is compliant with EN 15654-2 and EN 60215: 2011.

The right equalisation of the static vertical forces on wheels is a key-factor to ensure the dynamic stability of any rolling stock. PowerVe is the ideal solution for testing and commissioning of new rolling stock or post-revamping rolling stock. It is the perfect solution for workshop, in-field maintenance and for reducing derailment risk.

PowerVe fits any rail profile and is easily installed on different ranges of rail profiles, we can also supply customised rail profile ranges by request.

We're proud to be the UK sales agency for the lightest railway weighing system ever! It's hand-transportable everywhere, including on aeroplanes. The heaviest single part is a miniscule 6kg.

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FIRE EXTINGUISHER TESTING AND PROCUREMENT

Testing and maintaining portable fire extinguishers is an area of specialism for CoMech Metrology. Our qualified engineers are available to perform detailed servicing on various portable fire extinguishers.

The testing and servicing of portable fire extinguishers is a requirement by law where they must be serviced each year

Our servicing procedure involves inspecting the unit for corrosion, discharge, and any other signs of wear. The extinguisher is also checked to determine if it has been used by checking the pin and tamper seal, alongside checking the pressure gauge reading. Signs for blockages and corrosion are also checked within the unit's hose, alongside checking for any weight reduction, and making sure fixtures and fittings are secure.

We can also perform our servicing and inspection service on-site.

Fire extinguisher servicing and procurement forms just one part of our wealth of services we offer, and our packages are tailored to suit any business' needs.

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CoMech

MAKING YOUR WORKPLACE A SAFER PLACE

Vibration levels in equipment is the main contributor to HAVS. Ensuring your equipment is tested and tagged will ensure your employees are at low risk of developing serious health compliactions.

CoMech Metrology will conduct fully comprehensive testing, analysis and reports both on site and in our lab on a range of your handheld vibrating tools.

Our HAV assessors will test your tool's vibration levels and magnitude alongside detailed HAV Assessment Reports. These include a tool's recommended daily usage using a traffic light tagging method. The team can test the following:

- Concrete pokers
- Power hammers
- Hammer drills
- Needle scalers
- Grinders
- Impact wrenches
- And much more

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CoMech

IN HOUSE & ON SITE INSPECTION FOR YOUR LIFTING EQUIPMENT

When your lifting equipment and accessories need an inspection, CoMech are on hand to help.

Our technical team offer a lifting equipment service both in house and on-site to suit your requirements!

Lifting equipment and their accessories must be inspected regularly to ensure they're safe to use.

We are recognised by the Lifting Equipment Engineers Association and as such, our qualified specialists perform detailed inspections for a range of lifting accessories including:

- Chain, wire rope and man-made webbing slings
- Lever hoists, manual chain blocks and hoists
- Beam clamps, rigging screws, jacks
- Lifting and pulling machines

Lifting accessory inspection forms just one part of the array of services we offer, and our packages are tailored to suit any business' needs.

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PORTABLE APPLIANCE TESTING FOR ASSETS

If you need your items PAT Testing, give the friendly team here at CoMech a call.

We're able to handle a large volume of assets, so whether you have 20 or 200 items needing PAT testing, we can help!

The purpose of PAT testing is to ensure that electrical items which have the potential to cause injury are working correctly and are therefore safe for use. The tests traditionally include a preliminary inspection, earth bond testing, insulation resistance testing, and function testing. However, the methods are determined by which class an appliance falls into.

Once an appliance has been inspected and tested, it is issued with a PASS or FAIL label and the result issued to the customer.

Portable Appliance Testing forms just one part of the array of services CoMech Metrology offers, and we offer a range of packages to suit any business' needs

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METROLOGY EQUIPMENT SERVICING

Obsolete, custom-made or broken equipment?

Let our team of specialists redesign, repair or replace your equipment.

Our repairs service covers an extensive range of torque, mass, electrical, dimensional and other equipment types.

We have a fantastic team of in-house specialists who work on damaged and/or obsolete products, saving you the stress and time of sourcing new equipment. Our team love a challenge, and if your equipment has been custom-made, we can assess whether it can be repaired or replaced.

What do CoMech offer?

- Electrical calibration and repair
- Mechanical calibration and repair
- Pressure calibration and repair
- Temperature calibration and repair
- Torque calibration and repair
- Instrument calibration and repair

CoMech provide solutions for a wide range of issues that can occur in precision equipment, no matter if it's rail, automotive or aerospace.

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TrackRecordPro
KEEPING YOU ON TRACK

CoMech

Following the success of our Track-It and TrackRecordPro asset management platforms, CoMech are pleased to release a new and updated version.

TrackRecordPro3 has been redesigned to offer new and existing users a streamlined asset management experience.

Combining a user-friendly interface and advanced reporting capabilities, assets are stored, and their corresponding compliance are managed with ease.

TrackRecordPro3 is suitable for all users across a business. The cloud-based system helps varying organisations across the country control the maintenance, upgrades and replacements of their measuring equipment with up-to-date status reports. TrackRecordPro3 is maintained in-house at CoMech and we provide all users with full training and support. We have a growing number of valued clients who already utilise TrackRecordPro to its full potential to maximise their productivity while minimising costs.

Key features of TrackRecordPro3 include:

- Instant messaging for all users across a workplace.
- Add delivery notes to jobs and export as PDF documents.
- Add images to assets for easy identification.
- Scan an asset's barcode with a handheld scanner or with the scanner/camera function on a smartphone.
- Information regarding assets can be printed to be used for audit control.
- Completely customisable interface.
- Add multiple users with their own permissions.
- Use any time, in any place with an internet connection.
- Easily import and export spreadsheets for further analysis and reporting.

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Contact Us

To discuss a new project or if you have a product that needs servicing or calibrating.

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UKAS Accreditation

We provide innovative calibrations, repairs and maintenance in the following areas:

Dimensional

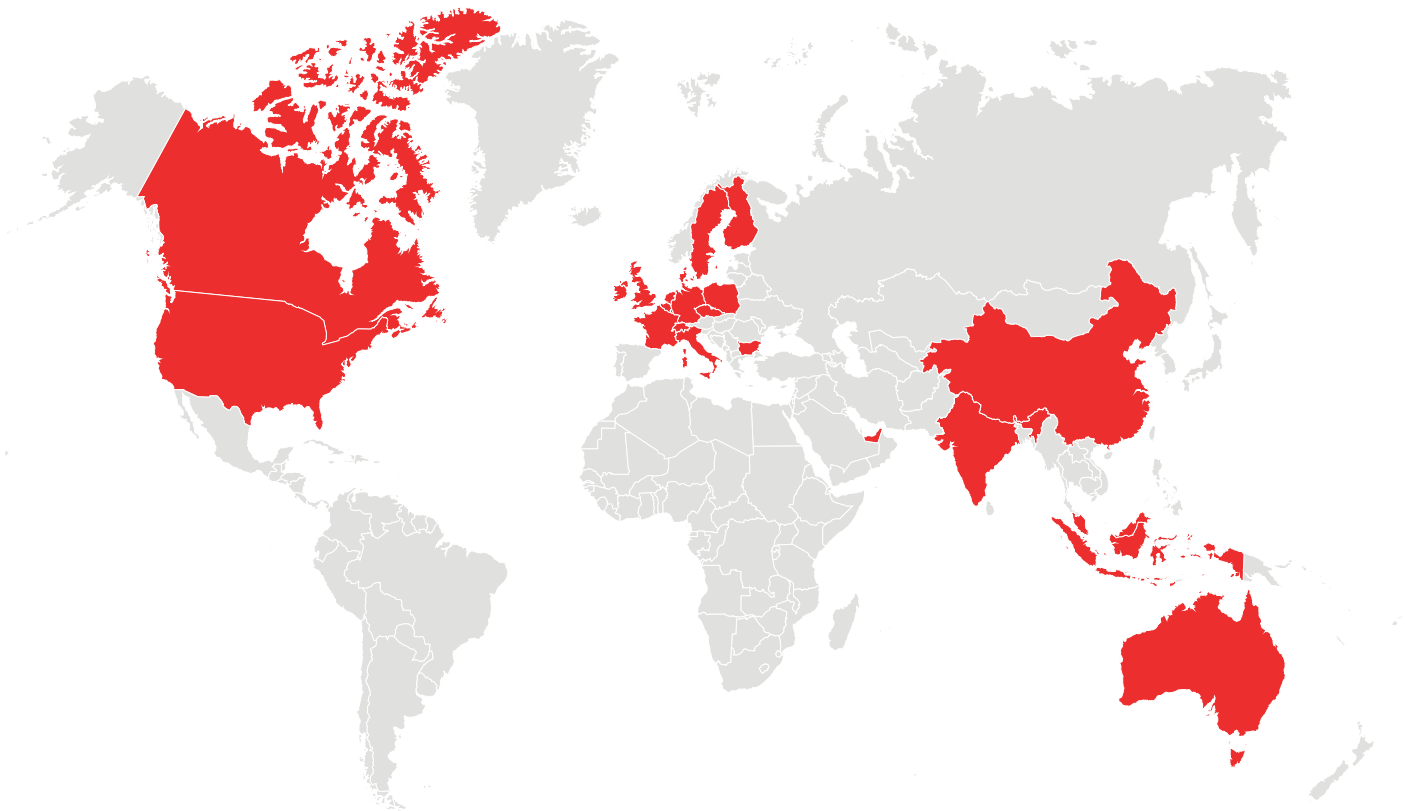
Electrical

Pressure

Mechanical

Temperature

0318

Find out more and see our full accreditations at **ukas.com/search-accredited-organisations/**

We are proud to work with valued customers and suppliers around the globe.