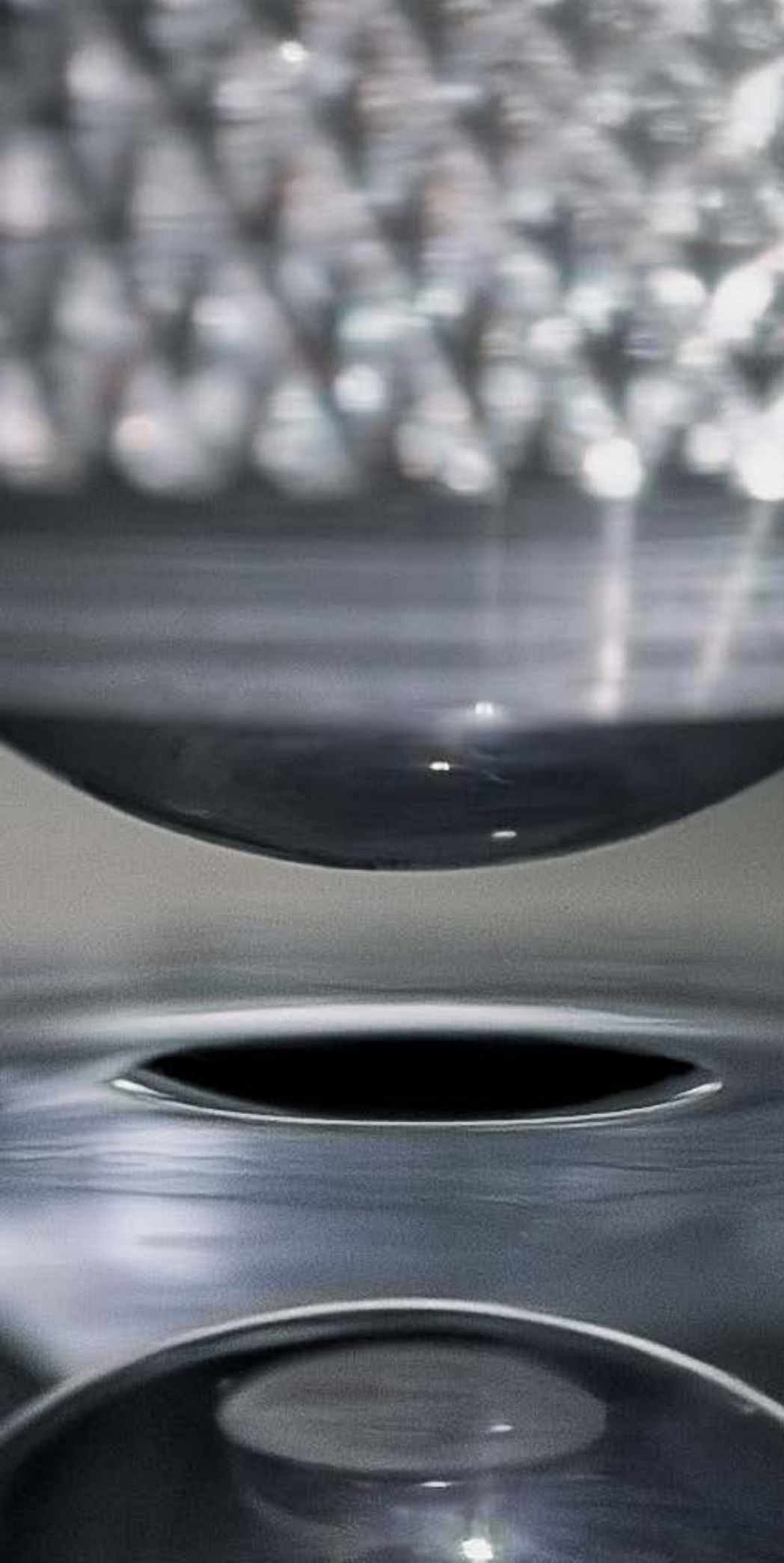




FOUNDRAX

Your guide to the Foundrax
**BRINELL HARDNESS
TESTING RANGE**

Everything you need to know about the best in the Brinell testing business, trusted in 45 countries since 1948.



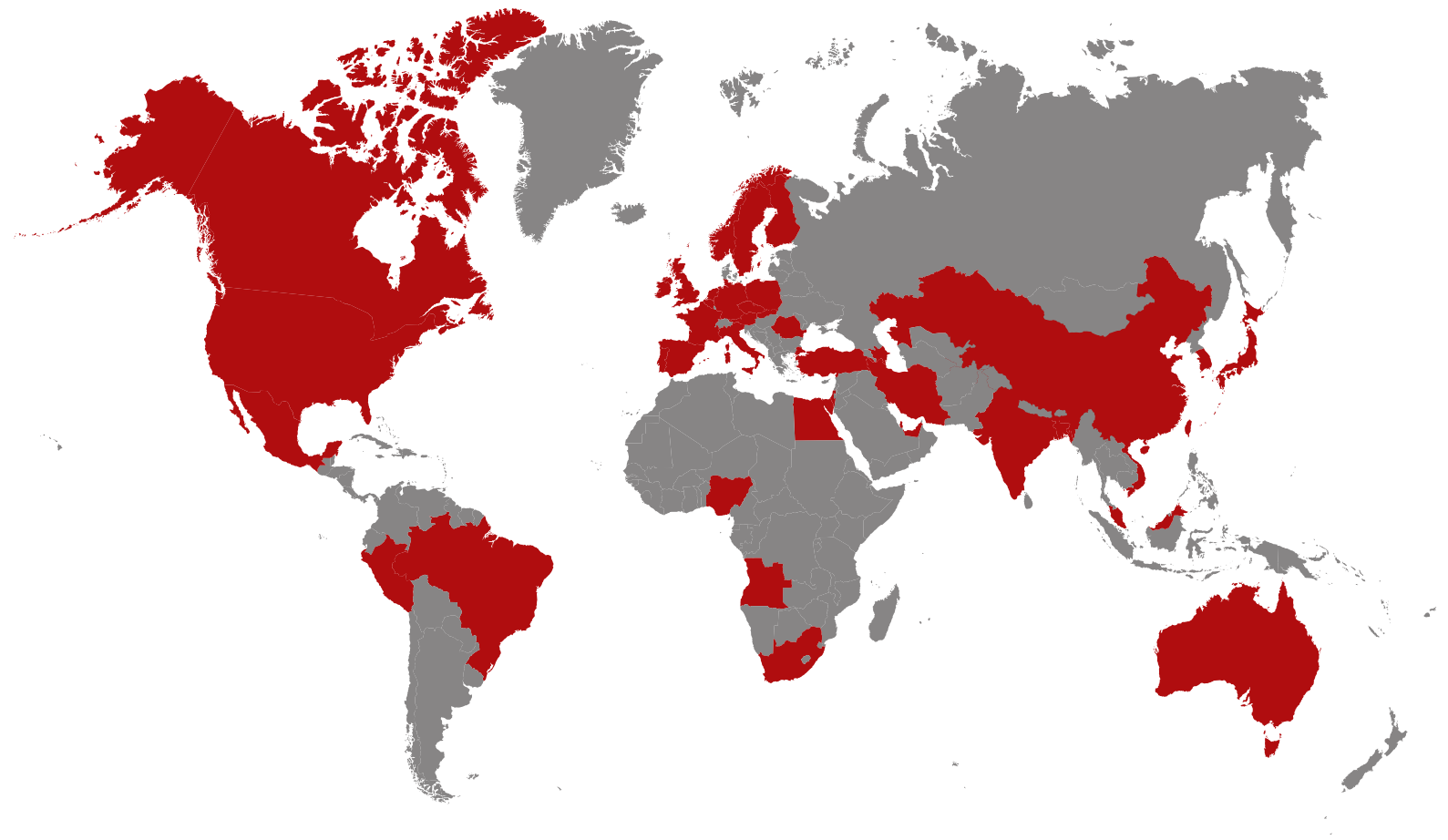
45 Trusted by
customers in
**countries
worldwide**

Why Brinell testing still matters in 2025

Brinell hardness testing remains a vital process for ensuring the integrity and reliability of metal components – especially in industries where safety, performance and durability are non-negotiable.

From aerospace to oil and gas, manufacturers rely on Brinell testing to identify sub-standard parts before they fail.

In this guide, you can explore the complete Foundrax Brinell testing range – solutions that thrive in unforgiving industrial environments; providing laboratory precision under steelworks conditions.



Industries we support

Foundrax Brinell hardness testing equipment is found in some of the world's most demanding sectors. In every environment, the goal is the same: eliminate uncertainty, ensure performance and maintain the highest standards of quality.



AEROSPACE AND TRANSPORT

30 million+ parts tested

We supply critical testing capability to aerospace, defence and transport sectors, where rapid identification of sub-standard components is essential.

Accurate, repeatable testing saves time, protects lives and upholds quality.



HEAT TREATMENT

Test solutions for industrial environments

Precision Brinell testing works hand in hand with heat treatment, where customers need results to within a couple of Brinell points of the nominal target value.

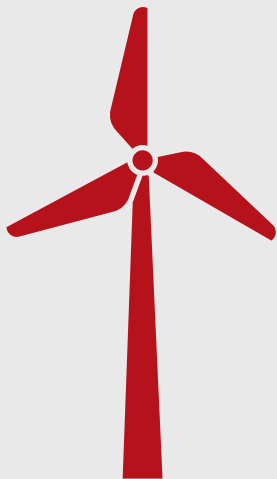
Our automated machines will perform accurate tests on materials that have had minimal surface preparation (as little as five seconds with a hand grinder) and then upload them directly to customers' networks.

OIL, GAS AND RENEWABLE ENERGY

Flexible measurement solutions

Our equipment enables customers to meet the immense energy demands of the 21st century, delivering essential testing capability to component suppliers in wind turbine production and oil tool manufacturing.

The exceptional performance demanded of turbine gearboxes and sub-sea drilling equipment, to give just two examples, means that catastrophic component failure will always be a possibility unless the strictest testing processes are in place.



IRON AND STEEL

Customers in over 45 countries

We've been working with iron and steel producers around the world for over 70 years. In fact, our industrial pedigree can be traced back to the 18th century.

An understanding of steelworks conditions has informed the development of the entire Foundrax range and there are Foundrax testers in steelworks today that have performed millions of tests.



We have Brinell hardness testing covered, from end to end

Whether your requirement is to test out in the field, on a major production line or in a laboratory, there's a Foundrax machine to suit. We've produced national standard calibration machines for several countries.

All are supplied with certificates of calibration to **ISO 6506** and **ASTM E10**, from our **UKAS-accredited laboratory**.



Customer support and training

Foundrax offers a complete maintenance and calibration service to ensure your Brinell hardness testing equipment performs in the toughest industrial environments. We offer both on-site and off-site calibration of any Brinell machine, as well as total support for our own equipment. Certificates of calibration from our UKAS-accredited laboratory are supplied as appropriate.

Our expert staff can provide structured training on the theory and practice of the Brinell hardness test, either at your site or at Foundrax Head Office.



X-BHD BRIDGE/GANTRY-TYPE HARDNESS TESTERS

Automatic test heads with optional integral BRINtronic Brinell microscope.

These machines are built to order, with custom bed size, a fixed or moving bridge and the option of automatic surface preparation.

BHD RADIAL ARM BRINELL HARDNESS TESTER

Automatic closed-loop, servo-motor-driven testheads and integral BRINtronic automatic Brinell microscope.

This Brinell tester offers full X-Y-Z testhead movement.





BRINSCAN ULTRA-HEAVY-DUTY AUTOMATIC BRINELL HARDNESS TESTER

The BRINscan range of high-speed, ultra-heavy-duty, in-line or off-line, fully-automatic production Brinell hardness testers has been proven in the most demanding industrial environments over tens of millions of tests, running 24/7/365.



SENTINEL HEAVY-DUTY AUTOMATIC BRINELL HARDNESS TESTER

The Sentinel is a high-speed, heavy-duty, in-line or off-line, fully-automatic production Brinell hardness tester that can easily be incorporated into a conveyor, for the testing of heavy or awkward-to-handle components.

HELIOS AUTOMATIC BRINELL HARDNESS TESTER

Ideally suited to the shop floor production environment, the Helios model is available with or without an integral BRINtronic automatic indentation measurement microscope.



ROBUS BENCH-TOP BRINELL HARDNESS TESTER

Closed-loop bench-top Brinell hardness tester designed for workshops where space is at a premium. Optional integrated BRINtronic automatic Brinell microscope available.



PORTABLE BRINELL HARDNESS TESTERS

Model 134: a portable hardness tester with a range of accessories including chain adapter, railway track tester and others.

Available as a moving head / moving anvil variant with a 900 mm test height for the most awkward of components.



BRINELL MICROSCOPES

Our BRINtronic system offers unrivalled performance in the measuring and recording of Brinell indentation diameters. Available as a fully integrated system in a range of Foundrax machines or as stand-alone units.

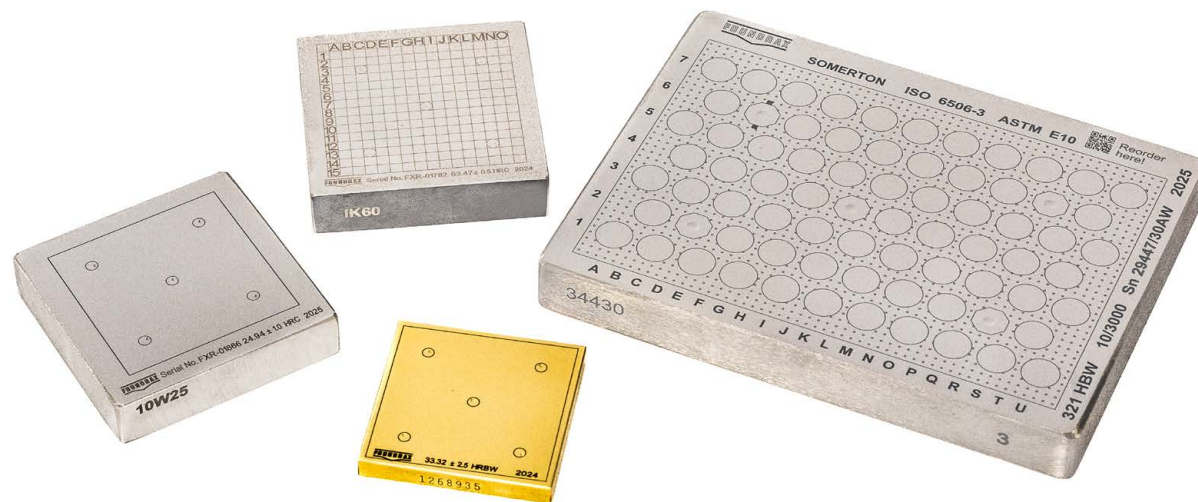
BRINscope – manual Brinell microscope features LED lighting for long-life reliability and superior illumination of the indentation. The DUO model has an optional illuminated graticule.

Brinell and Rockwell reference blocks

Foundrax has been accredited for the manufacture of Brinell reference blocks for longer than any other UK manufacturer and our uncertainty of measurement is amongst the lowest in the industry.

Foundrax Brinell and Rockwell blocks conform fully to all relevant ISO and ASTM standards and are complete with reference indentations.

All blocks feature a mirror finish for clear and easy indentation measurement. Custom finishes are available.





Expert engineering support

Foundrax has a dedicated team of engineers to keep your Brinell hardness testing equipment working in the toughest industrial conditions, year-in-year-out, exactly as it was designed to do.

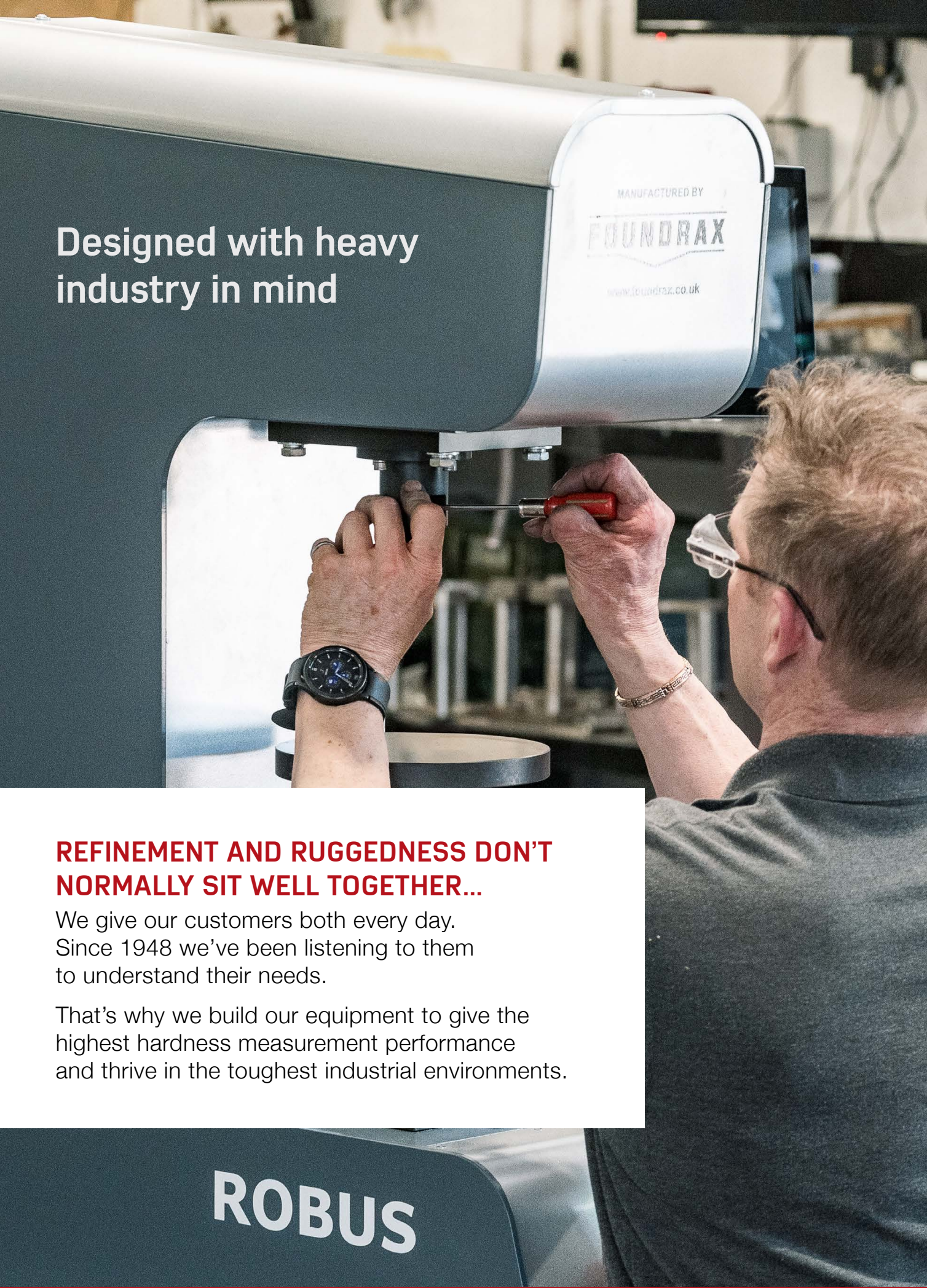
We can structure service and calibration programmes to suit individual customers' requirements, ensuring all equipment has total through-life support. Static, heavy-duty production, standard production and bench-top machines can all be serviced

at customers' premises, minimising downtime, and we offer loan equipment to customers whose equipment has to be serviced here at Foundrax. Our servicing capability also covers all types of portable hydraulic test head. Certificates of calibration from our UKAS-accredited laboratory are supplied as standard.

We also offer limited sub-contract testing of a customer's components either on-site or at our works. Please contact us for details.

Brinell calibration machines

In addition to our range of production machinery, we also produce calibration machines for the very highest levels of accuracy, some of which are in used to uphold national standards in countries around the world.



Designed with heavy
industry in mind

REFINEMENT AND RUGGEDNESS DON'T NORMALLY SIT WELL TOGETHER...

We give our customers both every day.
Since 1948 we've been listening to them
to understand their needs.

That's why we build our equipment to give the
highest hardness measurement performance
and thrive in the toughest industrial environments.

A track record of excellence

We aim to remain at the forefront of Brinell hardness testing. We continue to invest heavily in R&D and develop all our own hardware and software, including image analysis and closed-loop machine control systems. Along the way we have recorded some notable firsts:



First in the world to develop a fully-automatic Brinell microscope incorporating it into a Brinell hardness testing machine to produce the first fully-automatic Brinell hardness tester.



First in the world to produce Brinell reference indentation reading blocks, reducing subjectivity in the interpretation of test results.



First in the UK to supply portable testers, enabling large, awkwardly shaped components to be tested properly for the first time.



First in the UK to be accredited for the calibration of Brinell reference blocks.

Pioneers in Brinell hardness testing development

Driven by a firm understanding of industry needs, we're globally-acknowledged specialists in the development and manufacture of Brinell testing equipment and accessories.

We offer a complete service from initial enquiry, design, build and installation through to comprehensive annual servicing and recalibration, all supported by a dedicated team of experienced engineers.



From our Somerset Head Office, where every machine is built, we export to 45 countries, with our equipment available by direct order or through a network of international agents.

We're also committed to continuous research and, through participation in the ISO, we've been instrumental in the development of hardness testing standards. Our Managing Director sits on the ISO Mechanical Testing of Metals Committee and is in regular contact with various national metrology institutes.



UKAS ACCREDITATION

All Foundrax products are offered with official certificates of calibration. We are UKAS-accredited (0231) for our permanent laboratory and for on-site calibrations (0231S1).

CUSTOM DESIGN SERVICE

Alongside our comprehensive range of standard machines, we design and build bespoke equipment, with particular emphasis on developing solutions that fit around large-scale production lines, often very big, ultra-heavy-duty machines that allow large billets, forgings or plates to be tested with ease.



FOUNDRIX

Talk to us about your testing challenges

Whether you're upgrading your Brinell testing process, scaling production or looking for tailored solutions, we can help.

Contact our team today to discuss your requirements. We'll listen to your needs, share expertise and help identify the right equipment and support for your operation.

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