0231

FOUNDRAX

ROBUS

Closed loop bench top Brinell hardness tester

With optional integrated BRINtronic automatic Brinell microscope

RUGGED PRECISION

Laboratory accuracy under steelworks conditions

The new Robus closed loop bench top Brinell hardness tester from Foundrax.

A robust bench top Brinell hardness tester which is equally reliable in the laboratory or on the shop floor, it offers levels of force accuracy approaching ten times greater than required by the standards.

The Robus takes advantage of all the benefits of our seventy years of foundry, forge and steel works experience.

The body is designed using Finite Element Analysis, fabricated from plate 10mm thick to give approximately x4 factor of safety and gives only 0.6mm of movement at the full 3000 Kgf test force.

The load cell is custom designed for Foundrax, specifically for the forces generated in Brinell hardness testing. The indenter is then fitted directly to the load cell to ensure the load path is totally uninterrupted.

The force application is monitored 125 times per second and is tightly controlled using our own bespoke algorithms to give near National Standard Calibration machine levels of accuracy and repeatability. Force control is based on the proven and highly successful algorithm we developed for our Type B and Type D test heads, they are used all over the world in the most demanding industrial environments and often run 24/7 without an operator in fully automated systems. It gives smooth force application and excellent reliability across the force range without the risk of overshoot or undershoot and without any special adjustment.

The machine is capable of operating in all Brinell scales from HBW 2.5/62.5 to HBW 10/3000 and features optional integrated BRINtronic Automatic Brinell Microscope (Robus D only).

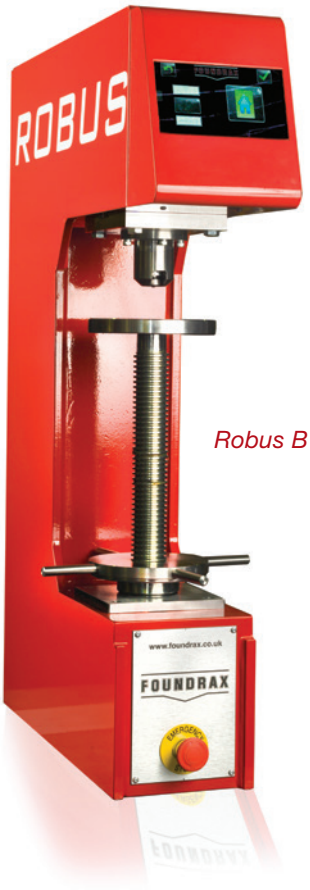
The user control touch screen interface is simple to use, icon based, intuitive and available in almost any language. It is based on our BRINtronic system, taking full advantage of our many years of experience in making systems which are simple and reliable for the operator.

The integrated BRINtronic featured in the Robus D offers internal image analysis and diameter calculation via an external modular microscope and a 1 metre rugged armoured power and data cable.

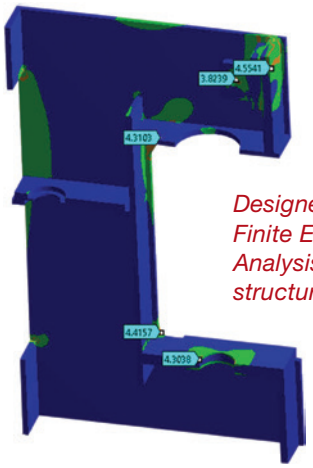
The Robus D comes with a single microscope unit, suitable for indentations made either with 5mm or 10mm indenters, or, 2.5mm or 5mm indenters. Each microscope has a unique internal identification, allowing the Robus D to automatically select only the correct calibration information appropriate to the microscope fitted.

The machine also offers a USB port for easy downloading of test data.

The machines are supplied in a red satin finish as standard, however are available in a full range of colours if there is corporate preference.



Robus B



Designed using Finite Element Analysis for optimum structural integrity.

Specifications:

Available HBW test scales:

2.5/62.5	10/100
2.5/187.5	10/500
5/125	10/1000
5/250	10/1500
5/750	10/3000

- Supplied complete with 10mm and 5mm UKAS certified tungsten carbide indenters, also testing table 160 mm diameter.
- Fully complies to and supplied with UKAS Certificate of Calibration IS0 6506 & ASTM E10.
- Maximum test height with standard testing table 300mm, throat 140mm.
- Mains supply 240v, single phase.

Contact Us

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Foundrax were established in 1948 and are the only company in the world to truly specialise in Brinell hardness testing equipment and accessories. We invented commercial automatic Brinell measurement and were the first company to be officially recognised for the manufacture of Brinell Reference Blocks in the UK. We have manufactured several National Standard Calibration machines and production machines which have performed tens of millions of tests (over 30 million in one case). Our equipment is used in 46 countries around the world and 94% of our customers say they would recommend us.

The Foundrax range includes everything from reference blocks, portable Brinell hardness testers and National Hardness Standard Calibration Machines through to heavy duty fully automatic production machines which operate 24/7.

Not only is our equipment used in several National Metrological Institutes providing National hardness standards, but it is also found in steelworks, foundries, forges and heat treatment plants around the world and many other industries besides.

UKAS accredited

Supporting the Brinell test worldwide for nearly 70 years

Innovators and specialists

Custom designed machinery

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