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BRINtronic RIVO

The best automatic Brinell microscope in the business is now completely self-contained.



Entering a new era of automatic Brinell testing

Foundrax has led automatic Brinell measurement since 1982, and a fully self-contained microscope – with its own screen and image processing on board – was the logical next step in the evolution of accurate and repeatable indentation measurement.

So, the best automatic Brinell microscope in the business no longer needs any connection to an external device.

It employs the latest iteration of the algorithm that began automatic measurement in 1982, which has been continuously refined and is still the best in the industry.

Rugged and reassuringly solid in the hand, it is perfect for the steelworks environment. As with all BRINtronic systems, the results are displayed in around a second or less, there's no need for operator adjustments to the type of illumination, changes of lens or adjustment of on-screen cursors in order to get a viable result. This means no risk to the quality of results and no frequent reverification to meet the Brinell testing international standards.

This is proven ground. Foundrax invented automatic Brinell indentation measurement in the early 1980s. The system revolutionised the Brinell test, with benefits across multiple industrial sectors, and has been enhanced repeatedly since its launch, continuing to

exceed the requirements of the international standards. BRINtronic RIVO carries that same heritage forward, free of the one thing every BRINtronic before it still needed: a PC. For the first time, a BRINtronic needs nothing else to run – no PC, no laptop, not even our separate touch-screen unit (the route the NEO took). The RIVO carries that same heritage forward, entirely on its own.



SELF-CHECKING SOFTWARE

The system software features numerous traps and self-checks to ensure that the measurements used to define the indentation are validated in a number of independent ways. The principle behind the design is simple: the system gives you the right answer or no answer. In the very rare event of doubt, the answer is either withheld, or the operator is clearly warned (for example, if the measurement is attempted on an unprepared surface) and even then, the result should only vary by one or two points from the optimum.



The BRINtronic system

On the shop floor or in the laboratory, measurement of the indentation is the key to reliable results. Over 40 years of experience in automatic measurement has refined an algorithm that makes hundreds of accurate indentation diameter measurements every time, on surfaces with only minimal preparation. Quicker surface preparation means lower costs and higher productivity.

The BRINtronic RIVO features the same simple, intuitive, icon-driven interface as the rest of the range and is designed to be easy to use. It automatically evaluates the quality of the surface preparation and warns the user if it isn't good enough, although this is very unusual. At the end of a job, every result can be saved for download.

The RIVO demonstrably finds the indentation more effectively and the edge more reliably than any other automatic Brinell microscope. It recognises and ignores noise from grinding marks across all normal industrial test surfaces, so there's no need to worry about alignment of the grinding marks for reliable results. Because it can measure on all normal surfaces, standard reference blocks are all that's needed, and the surface preparation required on test materials takes about five seconds of work with a hand grinder.

Now, for the first time, all of this is built into a single self-contained unit, with the screen and image processing on board and no PC to connect to: giving you the freedom to test wherever the job takes you, without trailing leads, snag points or restricted reach.



The advantages of the BRINtronic RIVO

Results in around a second or less

Very low uncertainty of measurement gives reliable, accurate, repeatable results

Fully self-contained operation for complete freedom of movement on the shop floor

Works as well on rough surfaces as on mirror finishes

Operator-independent results, whoever is operating, and no operator adjustments required

Quick changeover between screens

Surface preparation evaluation and warning (if required)

Ovality detection in accordance with user-defined parameters

Displays results in HBW and mm instantly

Provides results to 2 decimal places (HBW)

Saves all results to a single downloadable file

Multi-language user interface

Depending on the indentation size and quality of surface finish, is designed to use hundreds of diameters to calculate the mean

Detects and highlights ovality as required by ASTM E10-23

Measures indentations from 1.2 mm to 6mm

Easily integrated into production quality control systems

Measures indentations made on all materials to which the standards are relevant

Simple icon-driven software

Calibrated and certified under our UKAS accreditation to ISO 6506-2: 2018 and ASTM E10-23



The BRINtronic RIVO joins a family of testing technology that already sets the standard. If you would like more information on our new self-contained microscope, or any of the other devices in our range, please contact us.



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