

Faster and more reliable Brinell hardness testing

**FOUNDRA**X

# BRINtronic

Automatic Brinell Microscope

Whoever measures, whatever the surface finish,  
whatever the material, the BRINtronic is the answer

**NEW  
MODEL**

**RUGGED PRECISION**

Laboratory accuracy under  
steelworks conditions

## The BRINtronic System

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Foundrax invented automatic measurement of Brinell hardness indentations and made their first system in 1982. They have more experience than any other manufacturer which is why they are the market leader. The system is used in the oil and gas, automotive, rail and steel industries and in foundries, forges and heat treatment plants worldwide. The Foundrax BRINtronic system comprises a fully automatic Brinell microscope, either as a stand-alone microscope or built into type D test heads in our range of Brinell hardness testing machines. It is the most accurate, reliable and repeatable commercially available automatic Brinell measurement system.

**On the shop floor or in the laboratory, the measurement of the indentation is the key to reliable results.**

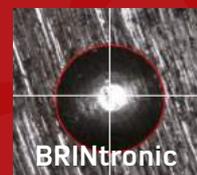
The BRINtronic system provides a solution that is simple to learn and easy to use - an untrained person can learn to use it in about 5 minutes.

- The correct result or no result.
- Gives confidence to your customers.
- Measures indentations from 0.6mm to 6mm.
- Measures indentations made on all materials to which the standards are relevant.
- Measures indentations made on all kinds of surface from highly polished reference blocks to quickly and easily prepared surfaces using a hand grinder (in 3-5 seconds).
- No need for accurate positioning.
- Completely operator independent results whoever the operator.
- Low uncertainty of measurement - therefore reliable, accurate, repeatable results.
- UKAS certified to ISO 6506 and ASTM E10.

**The Foundrax BRINtronic will do all this without the need to adjust the illumination or change any lens.**

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## Benefits of BRINtronic

The operator is unable to adjust the system and influence the result because any adjustment would invalidate the calibration and the equipment would need to be re-calibrated and re-certified to comply with ISO 6506:2014. Foundrax are trusted worldwide and acknowledged experts in Brinell hardness testing.

## Reliable Results

The software features numerous traps and self-checks in order to ensure that the measurements it uses to define the indentation are validated in a number of independent ways. The principle behind the design is that the system gives you the right answer or no answer and that in the 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.

## No Compromise Performance

The BRINtronic optically measures the indentation under the toughest industrial conditions and the ergonomic stainless steel microscope is compact, robust and easy to use. The user friendly software gives the operator warnings if any parameters are in doubt.

## Flexible Surface-Preparation Options

Over 30 years of experience of automatic measurement has created an algorithm that makes hundreds of accurate indentation diameter measurements every time on surfaces with only minimal preparation (3-5 seconds using a hand grinder is normally adequate). Quicker surface preparation means lower cost and higher productivity.

## Easy Configuration

The BRINtronic fully automatic Brinell microscope can be ordered as: (1) a USB powered connection compatible with any computer or touch-screen device; (2) a PC system supplied pre-configured ready to go; or (3) with laptop computer ready configured and contained in a rugged industrial carry case.



**BRINtronic-MD<sup>2</sup> WITH RUGGEDIZED TOUCH-SCREEN TABLET**

# WHOEVER MEASURES, WHATEVER THE SURFACE FINISH, WHATEVER THE MATERIAL, THE BRINtronic IS THE ANSWER

## How It Works

The process is automatic; once the operator initiates the test there are no external influences to compromise the integrity and accuracy of the results and it will also detect and highlight ovality according to user settable parameters.

- Tailored support; all hardware and software is our own so we can easily cater for special requirements.
- Easy to look after; most items are available as spares from stock in the unlikely event of damage to the unit.
- Future proof; even if third party hardware becomes obsolete we will have a solution to keep you in production.
- Performance is as high for stand-alone systems as for integrated systems.
- Easily integrated into production quality control systems as required by ASTM E10.



## Features

- Simple icon driven software for ease of use.
- Quick to move between batches & alternative test parameters.
- Surface quality preparation evaluation & warning (if required).
- Ovality-detection according to user-defined parameters.
- Displays test results in HBW and mm instantly.
- Provides results to 2 decimal places (HBW) and 4 decimal places (mm) as well as batch mean, standard deviation etc.
- Batch summary reports (batch size, batch mean, standard deviation, number of high and low rejects), with or without individual test results.
- User interface in any language.
- Single tests or tests in batches.
- Easily integrated into production quality control systems.
- The system is fully networkable and can communicate with a remote computer and download/upload batch data.



**NO.1**

## About BRINtronic

Designed for harsh industrial factory floor environments such as foundries, forges and steelworks. Designed and manufactured by Foundrax makes it easy to support in the event of the unexpected.

Foundrax are trusted worldwide and acknowledged experts in Brinell hardness testing. The BRINtronic is widely accepted and gives confidence to your customers, having made such systems since 1982 and they are in use in more than 45 countries.

Tailored support, all hardware and software is our own so we can easily cater for special requirements.

The BRINtronic system is in use worldwide; it is proven to repeatably and reliably measure Brinell indentations made under normal industrial "shop floor" conditions as found in harsh environments such as foundries, forges and steelworks etc. The system is used across the Foundrax range, as an independent microscope (BRINtronic-LT, BRINtronic-PC, BRINtronic-MD), as well as in our standard automatic Brinell hardness testing machines along with custom designed machines.



## About Us

### Our Sectors

Foundrax equipment and services are endorsed by many industry sectors, all of whom demand the highest levels of reliability in hardness testing.

The system is used in the oil and gas, automotive, rail and steel industries, foundries, forges, heat treatment plants worldwide and, in fact, many industries whose products demand the ultimate in reliable hardness testing can benefit from the BRINtronic system.

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### Enquire About BRINtronic

Call or email us to find out more about BRINtronic

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## Get In Touch

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## Worldwide Reputation

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The quality of Foundrax equipment and services is endorsed by an impressive list of industry users, many acknowledged as leaders in their field - whose products demand the ultimate in reliable hardness testing.

These include:



TATA STEEL

BAOSTEEL



NIPPON STEEL &  
SUMITOMO METAL



KAMAZ



# Faster and more reliable Brinell hardness testing

## International Service

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Foundrax provide a maintenance and verification service that is structured around an understanding of the customers needs to meet productivity criteria and minimise downtime.

Foundrax equipment is available either direct from us or through a worldwide network of agents.

## Our Machines

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All our machines are complete automatic Brinell hardness testers; easy to operate with the test result appearing on the screen.

The Foundrax BRINtronic System.....rugged precision with laboratory accuracy under steelworks conditions!

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