

BRIN400 series

**A range of production
Brinell hardness testing
machines designed for
accurate and reliable
testing in harsh industrial
environments**



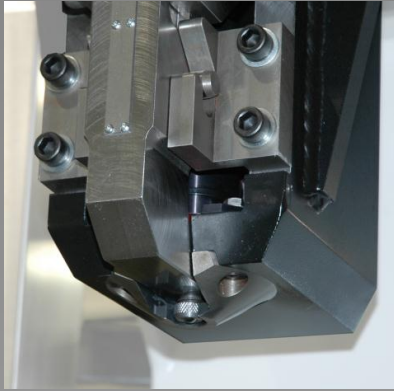
BRIN400D



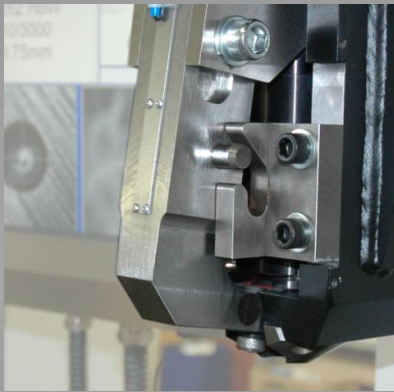
BRIN400B



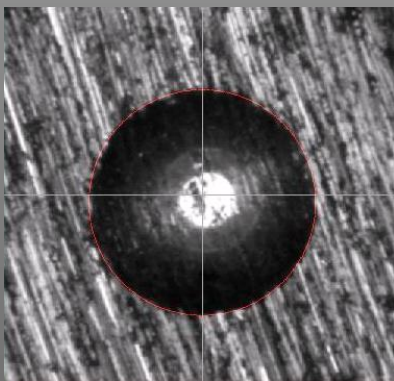
7952 Nieman Road, Lenexa, KS 66214-1560 USA
Phone: 913-685-0675, Fax: 913-685-1125
www.ndtsupply.com, sales@ndtsupply.com



Both machines feature the rugged construction required for harsh industrial environments – example above shows BRIN400D test head



Both machines feature specially designed load cells, the example above shows the BRIN400D indenter which has the load cell built in for greater reliability and accuracy



Test surface preparation in seconds using simple hand grinder

Designed and engineered to perform reliably in arduous environments, the BRIN400 series enhances productivity for in line and off line testing of materials.

The test force is applied using a combination of specially designed load cell and servo motor. The force is driven through a heavy duty gearbox and ballscrew working at well below their maximum capacity for long life reliability.

The servo motor is able to retain full torque when the motor is static and is able to make minute force adjustments to compensate for movement or material creep under all circumstances.

There are two models in the range – the BRIN400B and the BRIN400D.

Both machines have the following features:

- load cell and servo motor controlled application of test force
- heavy duty gearbox and ballscrew for effective transmission of test force
- monitoring of test force 125 times a second for complete accuracy during test process
- optimised force measurement for Brinell hardness testing procedure
- minute force adjustment to compensate for any movement or material creep
- software-controlled cycle time
- operator-adjustable dwell time
- Unrivalled build-quality, fabricated from 12mm steel plate for rigidity and strength

The BRIN400D features all the above but comes with integral automatic BRINtronic microscope for instant, reliable, repeatable measurement and recording of the results.

This ensures that Brinell hardness testing can be achieved reliably, accurately and quickly with no operator influence on either the test process or the recording of the results.

Both models are available with a powered lead screw for applications where the testing of heavier components or higher rates of testing are required.

The lead screw is anchored to the throat of the machine by a slideway to protect it from accidental damage that may occur due to poor jiggling of the component under test or incorrect loading of the component into the machine.



BRIN400D-S

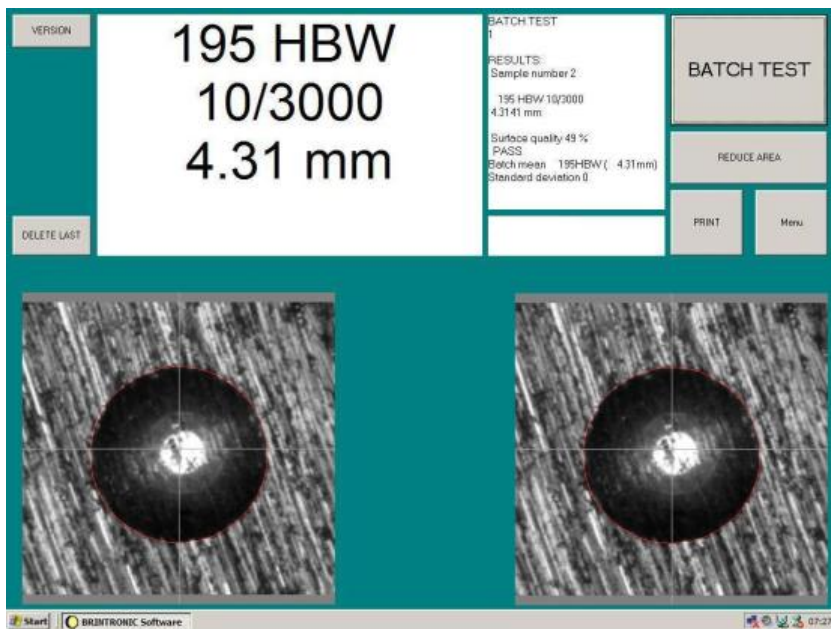


BRIN400B-S

BRINtronic automatic Brinell microscope system – the focus on detail

Whether used as an optional extra as in the case of the Brin400B models or integrated into the machine as in the Brin400D, the BRINtronic automatic Brinell microscope system provides a complete solution for the measurement and recording of test results.

Using high quality optical components and market leading software, the system provides unrivalled accuracy when measuring the indentation and then subsequently records the result, creating a valuable log of test information.



Main test screen showing live and measured images, test results, surface quality and batch statistics

The system:

- displays HBW and diameter results as well as batch mean, standard deviation etc
- highlights out-of-tolerance results for clarity
- can automatically download batch parameters from a network/upload test results to the network as required
- detects the quality of surface preparation and will warn the operator if required
- will tolerate all normal test surfaces from mirror finish reference blocks to rapidly hand prepared rough industrial surfaces as well as detect ovality according to user settable parameters
- Simple icon driven software for ease use
- accepts a wide range of user defined parameters and software configurations

The on-screen menu is both intuitive and easy to use, allowing both batch and single testing if desired. The batch set-up screen is customisable to allow for extra fields such as multiple indentations per component, operator name, customer etc. to allow for greater detail in record keeping.

Specifications

BRIN400D

Test height: 475mm

Throat: 275mm

Nominal overall dimensions:

420 mm [W]

670 mm [D]

1580 mm [H]

Nett weight:

520Kg approximately

BRIN400B

Test height: 400mm

Throat: 250mm

Nominal overall dimensions:

420 mm [W]

670 mm [D]

1210 mm [H]

Nett weight:

500Kg approximately

Common to all models

Electrical supply:

400V AC 50Hz 3 phase + Neutral + Earth 16A max

Standard equipment:

10mm , 5mm and 2.5mm indenters as required

Testing table: 200mm dia.

Vee anvil: 70mm dia.

(Shipping specification)

Available Hardness scales

HBW10/3000

HBW 10/1500

HBW 10/1000

HBW 5/750

HBW 10/500

HBW 10/250

HBW 5/250

HBW 2.5/187.5

HBW 2.5/62.5

Optional additional features

-S: Retained and guided powered lead screw for heavy components or high rates of testing.

The BRIN400 series machines fully comply with ISO 6506 and ASTM E10

Foundrax is the world leader in Brinell hardness testing, we manufacture and supply the most comprehensive range of machines and equipment available today. We continuously develop and improve our processes, procedures and products to remain at the forefront of the industry.

All Foundrax products are offered with UKAS certificates of calibration and offer a robust, reliable and cost-effective solution to the Brinell hardness test process on which so many industries rely.

From National Standard Calibration machines to heavy duty factory floor machines, portable equipment and accessories, there is a Foundrax product for every application.

NDT Supply.com, Inc.

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e-mail: sales@ndtsupply.com, www.ndtsupply.com

