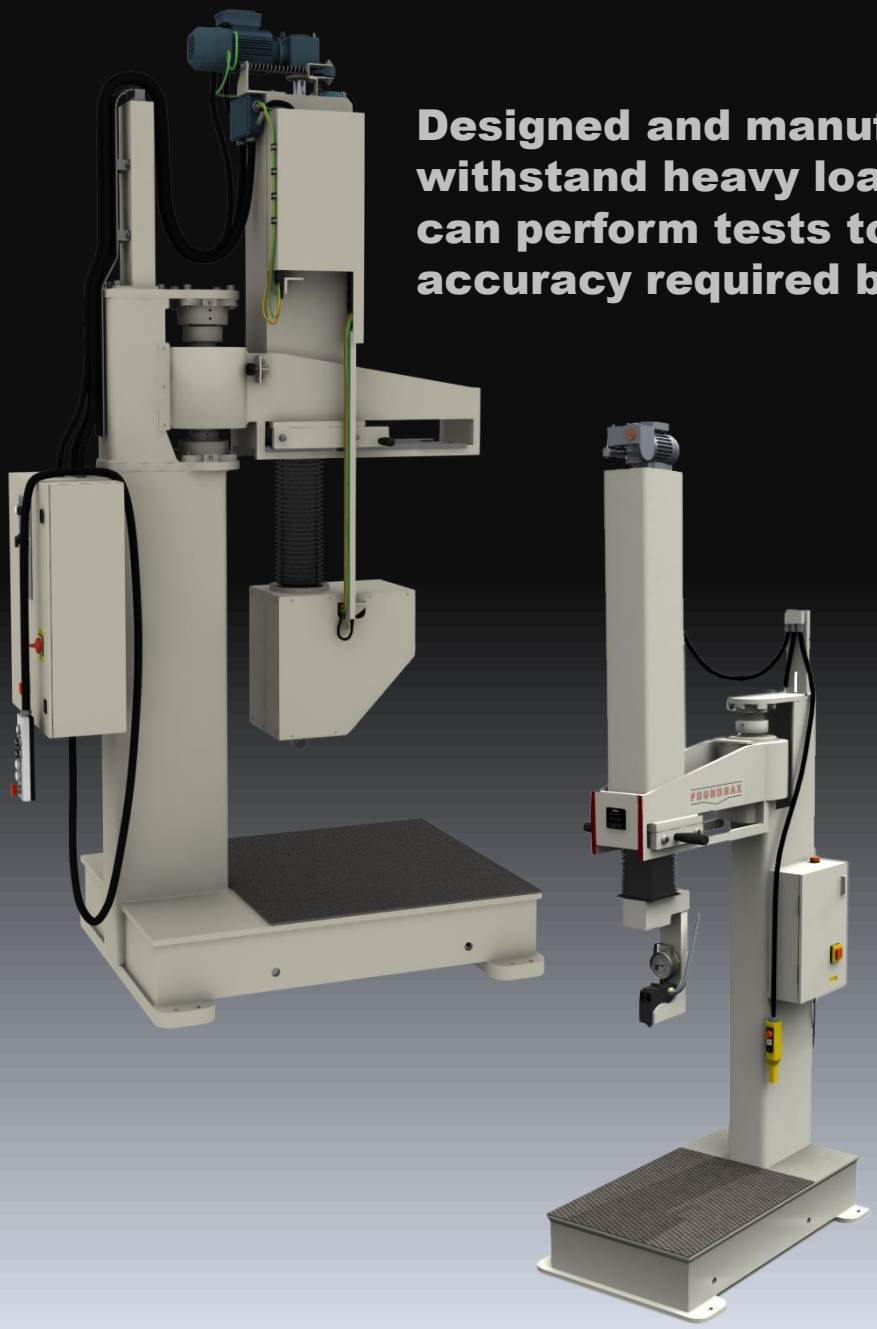
FOUNDRAX

Radial arm Brinell hardness testers

BHD range



Designed and manufactured to withstand heavy loadings, the range can perform tests to the levels of accuracy required by today's industry

With its radial arm design, the BHD range of Brinell hardness testers is ideal for testing large components in industrial applications

Setting the standards in Brinell hardness testing equipment

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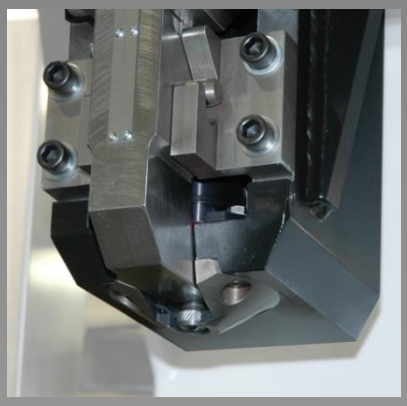
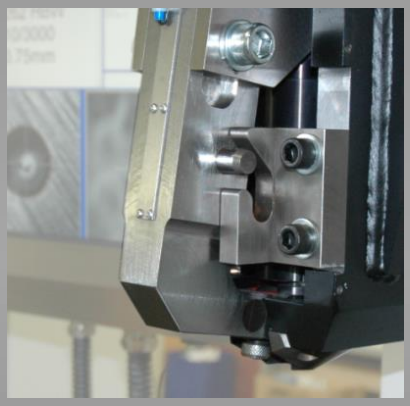
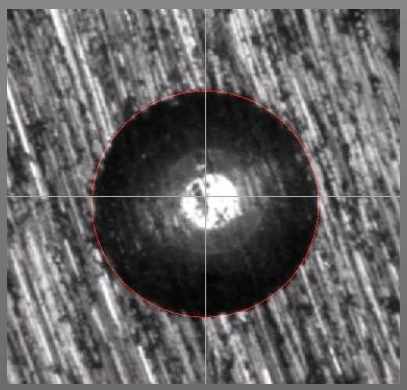


All machines feature the rugged construction required for harsh industrial environments –example above shows Type D test head



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



Test surface preparation in seconds using simple hand grinder

The Foundrax BHD range of radial arm Brinell hardness testers features three models offering different levels of specification

Purpose built and designed using finite element analysis to ensure that the radial arm can provide long term reliability under the stresses exerted during the test process, the BHD range combines strength and rigidity yet is so easy to operate that the test head can be moved and positioned accurately using just one hand.

The entry level BHD is a manually-operated, single test force indentation-only model and uses a removable 134 portable Brinell test head to apply the test force of up to 29,420N (3000kgf). It can be used in conjunction with an external Foundrax BRINscope manual or BRINtronic fully automatic Brinell microscope for indentation measurement.

The BHD Type B is a higher specification machine using a multi-force closed loop (load cell controlled) servo motor controlled test head that includes automatic timing cycle. It offers indentation only and is ideal for use with an external Foundrax BRINscope manual or BRINtronic fully automatic Brinell microscope for indentation measurement.

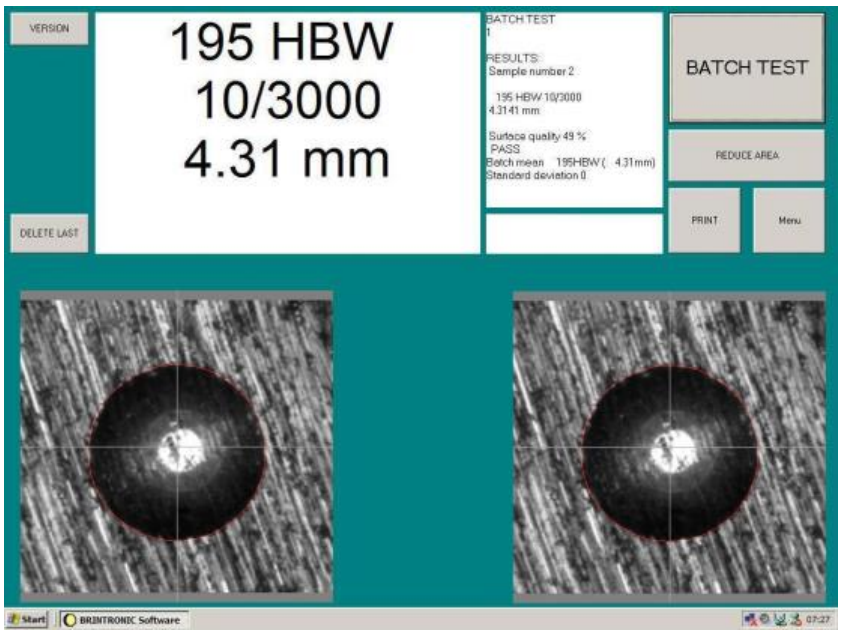
The BHD Type D is the top of the range model, again using a multi-force closed loop (load cell controlled) servo motor controlled test head but it also comes with an integral BRINtronic automatic Brinell microscope for fully automatic operator-independent indentation, optical measurement and recording of the results.

All BHD machines have motorized vertical movement of the test head, 180°of radial movement, a maximum test height of 900mm and maximum reach of 650mm for BHD Type B and D models and 600mm for the BHD version, allowing the testing of large components quickly with accurate positioning. The testing table is capable of accepting a distributed load in excess of 20 tonnes.

BRINtronic automatic Brinell microscope system – the focus on detail

Whether used as an optional extra as in the case of the BHD and BHD Type B models or integrated into the machine as in the BHD Type D, 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, it also detects 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.

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Specifications

BHD

Test height: 900mm

Maximum reach: 600mm

Floor space, standard bed: 720mm x 1300mm

Floor space, oversize bed: 1120mm x 1400mm

Total height: 3000mm approximately

Max. workpiece weight: 20T

BHD type B, BHD type D

Test height: 900mm

Maximum reach: 650mm

Floor space, standard bed: 1120mm x 1400mm

Floor space, oversize bed: 1120mm x 1400mm

Total height BHD type B: 3300mm approximately

Total height BHD type D: 3500mm approximately

Max. workpiece weight: 20T

Common to all models

Electrical supply:

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

10mm , 5mm and 2.5mm indenters as required

Powered z axis:
Standard on all models

Available Hardness scales

HBW 10/3000
HBW 10/1500
HBW 10/1000
HBW 5/750
HBW 10/500
HBW 10/250
HBW 5/250
HBW 2.5/187.5

All machines in the BHD range are available UKAS certified to ISO 6506 and ASTM E10 as appropriate

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.

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