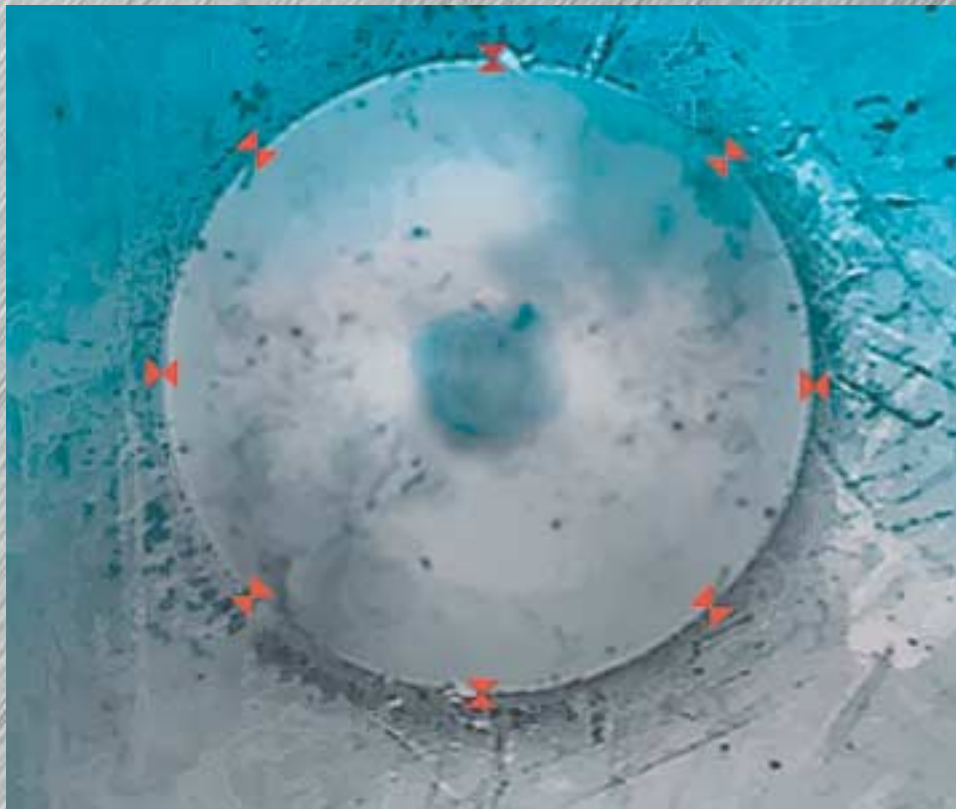


THE **B.O.S.S.**

BRINELL OPTICAL SCANNING SYSTEM



Brinell Measurement with Authority

- Eliminate Operator Influence on Scope Readings
- Improve Documentation and Management Control

▶ A real time image shows the impression at a resolution anyone easily can read.



The Lab B.O.S.S.[®] Computerized Brinell Optical Scanning System

▼ Verifying calibration is easy - simply measure an impression on a Brinell block and compare the readings.

The Lab B.O.S.S. virtually eliminates operator influence.

It is well established that measuring Brinell impressions can result in measurement errors of tenths of a millimeter between operators. This error can take up your entire tolerance specification. The Lab B.O.S.S. can virtually eliminate operator influence on test results.

Place and Click! Operating the B.O.S.S. is easy.

The entire test sequence is simple. Place the scan head on the work piece and move it so the impression appears near the middle of the screen. Press the button on the scan head. The Lab B.O.S.S. automatically measures the impression diameter to the nearest 0.01 mm, displays the resulting Brinell value and the diameter measurement. All data storage functions are automatically performed according to the preset parameters.

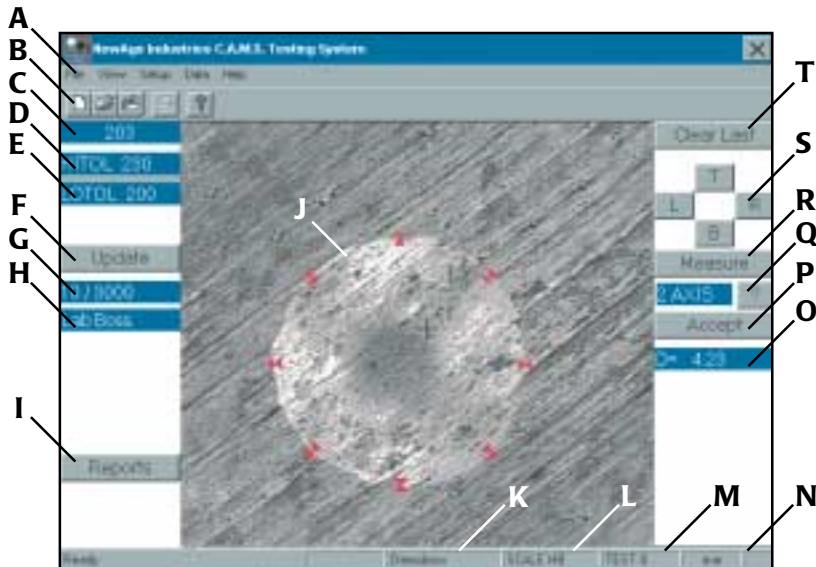
The Lab B.O.S.S. can be configured to meet your needs.

An unlimited number of data files can be created, each with its own test parameters. The operator can select a complete range of test loads and indenter sizes as well as enter a variety of descriptive information for each file and result. The field names in this descriptive information can be changed to accommodate different types of data so companies can create their own personalized databases.

The Lab B.O.S.S. has built-in statistical capabilities. There is an optional average mode where "n" tests can be taken with the resulting average going into the database. Two sets of tolerances, one for warning and another for out-of-tolerance may be entered. The data may be printed or uploaded to a network computer. Optional Newage advanced statistics software can display three self scaling windows of data in histogram, X/Bar and R Chart and straight data output with tolerances.



▼ A complete range of on-screen functions is available to the operator. (See below for description.)



▼ Many reports formats are available such as the optional Statistical program that includes histograms, X-Bar & R, and data history.



Main Screen Functions

- A Main Menu
- B File Menu Bar
- C Test Result
- D High Tolerance
- E Low Tolerance
- F Update Test Parameter Settings
- G Test Parameters: Load & Indenter
- H Objective
- I Report Selection and Printout
- J Brinell measurement marks
- K File Name
- L Scale
- M Number of Tests in File
- N Task Bar Shows Test File Information
- O Brinell Impression Diameter
- P Accepts the Test Result
- Q Controls & Displays the Test Axis
- R Initiates Measurement
- S Controls Position of Filar
- T Removes Last Result

The Benefits of Using the BOSS

Operator error is reduced or eliminated.

- Operators at different locations can get the same results.
- Record-keeping errors are eliminated
- Operators can test successfully with less training.
- Less operator fatigue than using a scope.
- Faster testing with reduced error.

Management control is improved.

- Record keeping is automatic.
- Unlimited test files and records.
- Tolerances, histograms, and scale conversion are automatic.
- Obtain reports at the press of a button or upload data to a mainframe.
- Password-protected calibration is simple and straightforward.
- Optional X-Bar/R Charts and other capabilities.
- Lab B.O.S.S. can read Newage Pin Brinell impressions (optional).
- Lab B.O.S.S. runs in Windows operating system: Windows® 3.1, Windows 95, or Windows NT.

▼ *The Lab B.O.S.S. is being successfully used in all kinds of environments by many companies in order to reduce costs and increase quality.*



See the B.O.S.S. in Action.

There are many ways to get a demonstration of the B.O.S.S.

-See an installation at a company near you.
There are many Lab or Shop B.O.S.S. installations around the country.

-See a live demonstration at your facility.
The portable Shop B.O.S.S. can be brought into your facility by a Newage representative.

-See a computer demonstration.
The Lab B.O.S.S. software can be installed on your computer and the operations simulated.



◀ The Lab BOSS Enclosure

When using the Lab B.O.S.S. in harsh environments the B.O.S.S. enclosure enables operators to keep all vital components in a clean, filtered-air environment. If heat levels are too high an air conditioning accessory can be added. Inside there is room for a computer, printer, and 2 paper trays. The monitor is located on a swivel arm at 5½ feet elevation. The keyboard is outside the enclosure. If necessary, a membrane keyboard can be used.

SALES AND SERVICE SUPPORT

If you require calibration, verification, or service, a Newage Instruments field service representative is able to help. Each service agent is trained on all makes and models of hardness testers and can often handle all of your needs in one visit. Newage service personnel carry a wide range a parts on the truck for immediate repairs.

Here's some of what you will receive With the Newage Instruments Service Network:

- Newage provides a high level of service to customers with on-site service by highly qualified personnel, telephone support, and clearly written manuals.
- Standardized operating procedures with detailed documentation that will pass your internal and external audits. Compliance certification available to ANSI/NCSL-Z540-1-1994 and all applicable ASTM test methods.
- Verification, calibration, preventive maintenance, and repairs on many different types of hardness testing systems, regardless of make and model.
- All vehicles and service personnel are fully insured for liability to perform on-site service at your facility.

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B.O.S.S. covered under Patent #5483821



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