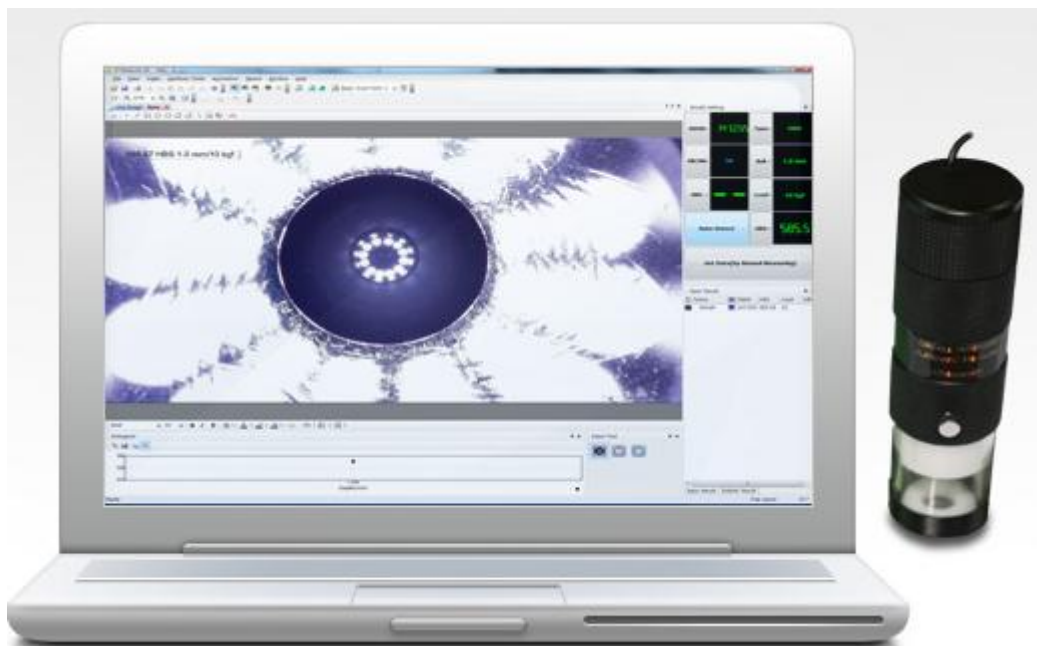# Brinell Impression Automatic Measurement System

"XTMeasure_HB™"

- Computer-Driven Optical Scanning System for Brinell hardness Inspection.
- More dependable and repeatable technique for measuring the diameter of Brinell indentations

"XTMeasure-HB" hand held unit with PC based window operating system

The XTMeasure-HB™ system is automatic scanning system for measuring Brinell impressions. It improves quality control management.

Virtually eliminate operator error

It is well known that two inspectors can easily differ by 0.1mm when reading the same spot. A 0.1mm difference in reading can result in a hardness result that varies by as much as 5 to 30 Brinell points. The range is even greater between labs.

The XTMeasure-HB™ system will virtually eliminate operator influence on test results.

Make measurements in an instant

The entire test sequence is very simple. Place the scan head on the work piece and move it so part of the impression meets the center point on the screen. Press the "Spacebar" of your keyboard. In a fraction of a second the XTMeasure-HB™ system captures an image of the impression, then uses the image to automatically measure the diameter to the nearest 0.01mm.

The system displays the resulting Brinell value, the diameter measurement. Additionally, values can be converted into other scales according to ASTM E-140.

Very portable
The XTMeasure-HB™ system can be very portable. This instrument uses a compact, hand-held video camera system that illuminates the Brinell impression, captures a video image. Just connect its USB2.0 cable to your Laptop, Desktop or Tablet PC.

Hardware specifications
- Scan head dimensions of 40mm diameter X 147mm tall
- Built-in light source
- Resolution to 0.01mm
- Video viewing system with solid state electronic camera
- Desktop or portable computer – IBM compatible Windows® operating system. (Companies may be able to supply their own computer if it meets specifications)
- Power supply: USB2.0
- Shipping Weight: approx. 5kgs (weight varies)

Software specifications
- Operating System: Windows XP , Vista, or 7
- Saramsoft software " XTMeasure-HB", programmed in-house
- Send the result to Microsoft Excel®

System Description

The XTMeasure-HB™ system with video scanning head with built-in light source, Windows-based impression measurement software; late model IBM-compatible computer, software for Brinell impression measurement, mobile enclosures made of aluminum and operating instructions.

Options

Calibration block with certificate – typical diameter 3.5 – 4.0 mm

late model IBM-compatible computer