

Introduction: The Brinell Hardness Module is specifically developed with accuracy and repeatability in mind. By using the latest image analysis techniques a user can automatically determine Brinell hardness. The module conforms to procedures described in both ASTM and ISO norms. Unlike manual methods, the module uses state-of-the-art algorithms to automatically determine indenter diameter thus minimizing operator bias. The module is a must for laboratories that experience high sample volume and/or employ multiple technicians.

Whether you're a seasoned image analysis professional or a novice, you will find the intuitive interface and Wizard features of this module reassuring as you greatly improve both the quality and throughput of your testing.

Brinell Hardness Measurement

- Accurately determine Brinell hardness using either ASTM or ISO norms
- Select from multiple test loads for testing
 - Macro Brinell
 - Micro Brinell
- Conversion to Rockwell B or C scales
- Use the "interactive" histogram feature to accurately set the boundary detection level
- Manual override/correction of automatic measurements

Reporting Options

- Multiple reporting options include:
 - Raw data reporting
 - Built-in report generator using Data Dynamics Reports
 - Export to Microsoft Excel®, Microsoft Word and .pdf format

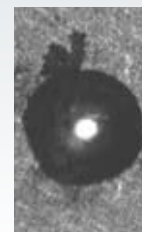


Scentis Image Modules

Designed for use with Struers Scentis Lab Management System

Optional plug-in image analysis modules provide state-of-the-art evaluation methods for everything from grain sizing to inclusion rating. Employ image analysis modules for evaluations according to international standards.

The Scentis image modules allow you to perform sophisticated analysis very easily. Simply select the appropriate analysis module and follow the intuitive guidance of the built-in wizards.



New to image analysis?

Try the built-in Scentis Wizard for simple step-by-step assistance through the entire process.

A seasoned professional?

Get directly to the analysis with powerful built-in tools.

Desire repeatability?

Easily establish a "best practice" by utilizing the built-in technique recorder.

Desire reproducibility between operators or multiple laboratories?

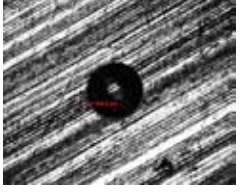
Share your methods with other module owners using our unique "setup" filing structure.

ASTM - E10 Brinell Hardness

Brinell Hardness - 2011-02-24 Specimen

General		Calibration	
Specimen Area:	3783274.85	Name:	
Specimen Fields:	1	Unit:	Micrometer
Number of Specimens:	1	Pixel Width:	1.7004
		Height:	1.7004

Field	
Field Width:	2174.9
Field Height:	1739.5
Field Area:	3783274.9
Required Field Area:	3783274.9
Images per Field:	1




Specimen Brinell 1

Brinell Summary	
Entry Date:	2-24-11
Detection Low:	0.00
Detection High:	27.00
Ball Diameter:	2.50
Indentation Force:	62.50
Force Units:	kgf
Indentation Time:	15.00
Indentation Count:	0
Mean Diameter:	0.53
Mean Brinell Hardness Number:	280 HBW
Mean Rockwell C:	0.0

280
HBW

2011-02-24 14:25:54 PM



Brinell

Measure:

To find indentation diameters using phase detection just click the 'Calculate Brinell Number' button. To draw indentation diameters manually, click the 'Draw Manually...' button

Draw Manually

Measured Indentation Diameters (mm)

0.54

Mean Indentation Diameter (mm)

0.54

Calculate Brinell Number

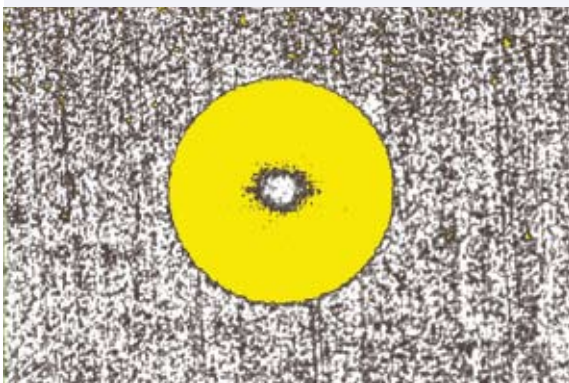
109 HBW 2.5/625

Delete Measurements

After completing desired indentation measurements click button below to continue.

Accept measurements and continue

Cancel



Scentis Image Modules

A large number of image analysis modules are available, many of which conform to ASTM, ISO and DIN standards:

Multiple Phase Percent Area	Cat. no: 36003021
Grain Sizing	36003022
Inclusion or 2nd-Phase Constituent Measurement	36003023
Particle Size / Sphericity	36003024
ASTM E384 Microindentation / Macro Hardness Measurement	36003025
Brinell Hardness Measurement	36003026
Thickness, Layers and Coatings	36003027
Graphite in Cast Iron	36003028
Dendritic Arm / Cell Spacing	36003029

The Scentis image modules allow you to perform sophisticated analysis very easily. Simply select the appropriate analysis module and follow the intuitive guidance of the built-in wizards.

A Scentis VI basic package, a Scentis VI single seat or a Scentis VI server installation is needed to run the above modules.

Scentis VI single seat, cat. no.	36001035
Scentis VI server + 1 floating seat, cat. no.	36001036
Scentis VI additional server seat, cat. no.	36001037

For further information on Scentis, contact your local dealer. You can also visit us at www.struers.com

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.



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