AMH55 Model Highlights and Features

Choose the model configuration that fits your needs. All models include our exclusive Cornerstone brand software and the following functionality:

- Advanced image recognition technology allows analysis of information not available with limited threshold-based methods
- Measures impressions with various surface conditions, including scratched or lightly etched

**AMH55 Automatic**
- Simultaneous automatic alignment and automatic parfocal tools
- Automatic pixel calibration
- Automatic shading correction
- Standard touch-screen interface with multi-touch capabilities
- Streamlined and simplified data reporting; customized spreadsheet generation tools
- Optional Advanced Analysis Module for color contoured mapping

**AMH55 Semi-Automatic**
- Automatically locates and analyzes indents
- Automatic alignment
- Automatic pixel calibration
- Standard touch-screen interface with multi-touch capabilities
- Customizable data reporting
- Manual Focus
- Upgrade path to AMH55 Automatic available

**AMH55 Lite**
- Automatically locates and analyzes indents within field of view
- Automatic pixel calibration
- Standard PC/monitor with keyboard and mouse interaction; optional touch-screen interface also available
- Customizable data reporting
- Upgrade path to AMH55 Automatic or Semi-Automatic available

**AMH55 Semi-Automatic**
- Automatic pixel calibration
- Customizable data reporting
- Upgrade path to AMH55 Automatic available

**AMH55 Automatic**
- Measures impressions with various surface conditions, including scratched or lightly etched

**AMH55 Model Configuration Options**

**AMH55 Series Microindentation**
- LM110/310 Series Microindentation (refer to spec sheet 209-095-001)
- LM248/810 Series Microindentation (refer to spec sheet 209-095-002)
- LV110/810 Series Vickers (refer to spec sheet 209-095-002)

**Optional Advanced Analysis Modules**

- Color Hardness/Contour Map (shown below)
- Auto Indent Placement
- Auto Case Depth

**Hardware Tester Options**

- The AMH55 supports all standard loads for microindentation and microindentation hardness testing.
- LM-Series performs microindentations from 1 Kg to 20 Kg with Vickers, Knoop, or dual indenters
- LV-Series performs microindentations from 5 g to 2000 g with Vickers, Knoop, or dual indenters

**Package Configurations**

Select one of the following hardness tester options with your AMH55 package:

- LM110/310 Series Microindentation (refer to spec sheet 209-095-001)
- LM248/810 Series Microindentation (refer to spec sheet 209-095-002)
- LV110/810 Series Vickers (refer to spec sheet 209-095-002)

**Options and Accessories**

- Stage Sample Holders
- Anti-Vibration Table
- Optional Color Hardness Contour Map displays sample hardness and location with a color representation of hardness variances.

**Routine maintenance extends the life of your optical equipment.**

**Technical Support**

- Call LECO Optical Service if you have any questions or problems (269-982-2385).
- Call LECO Optical Service if you have any questions or problems (269-982-2385).

**AMH55 Hardness Testing Systems**

**Hardness Tester Options**

- Auto Indent Placement
- Color Hardness Contour Map (shown below)
- Auto Case Depth

**Service**

- Available at our state-of-the-art facility in St. Joseph, Michigan.
- Repairs: Complete repair and overhaul of your optical equipment by factory-trained service professionals.

**Calibrations**

- Calibrations are A2LA accredited in the U.S.A. (certificate #1845.01; copies available at www.leco.com or call 269-982-2385).

**EMPOWERING RESULTS**

**AMH55**

**Hardness Testing Systems**

**Options and Accessories**

- Stage Sample Holders
- Anti-Vibration Table
- Optional Color Hardness Contour Map displays sample hardness and location with a color representation of hardness variances.

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**Technical Support**

- Call LECO Optical Service if you have any questions or problems (269-982-2385).

LECO Corporation
1800 Laboratory Avenue | St. Joseph, MI 49085 | 800-292-6141 | Phone: 269-985-5496 | Fax: 269-982-2385 | info@leco.com | www.leco.com

LECO and Cornerstone are registered trademarks of LECO Corporation. IS0 9001:2015 Q-994 | LECO is a registered trademark of LECO Corporation.
Maximize your productivity and easily measure impressions on various surface conditions for a wide number of applications with LECO’s AMH55. The AMH55 introduces LECO’s innovative Cornerstone® brand software to our hardness testing platforms, for increased usability, simplified reporting, and streamlined analysis times.

Supporting accurate and efficient microindentation and macroindentation hardness testing in fully automatic, semi-automatic, and live configurations, the AMH55 is a valuable resource for users needing precise and productive hardness testing while tailoring the data and results to their needs.

The AMH55 is ideal for:
- Case Depth Analysis
- Coating Hardness
- Surface Analysis
- Powdered Metals
- Weld Profiles
- Fasteners
- Decarburization

User-Friendly Cornerstone Brand Software
LECO’s unique Cornerstone brand software sets the AMH55 apart from other automatic hardness testers. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone gives the user complete control over their analysis parameters, method settings, calibrations, reporting, and more so that testing can be tailored to a specific application. A touch-screen interface and intuitive software capabilities, such as simultaneous auto-alignment and auto-pickoff adjustment, deliver increased speed, ease, and precision. Independently, Cornerstone’s highly organized, immersive environment, which gives the user the ability to select the data conversions, method of testing, export options, report generation, and other settings that are best suited for their samples.

Performing a Case Depth Analysis Using the AMH55 Automatic

1. Select Auto Focus, or use the slider function to bring the image into focus.

2. Display data on-screen, or quickly and easily export into other platforms, such as Microsoft® Excel™.

3. After the sample has been traced, patterns and indents can be placed using intuitive fly-out screens.

4. Clicking on any of the shaded quadrants will bring up a quad menu with tracing options.

5. The AMH55 Semi-Automatic and Lite configurations offer the same great testing capabilities, but with less automatic functionality and features to meet your needs. Both can be upgraded to the fully Automatic version when the time is right.
Maximize your productivity and easily measure impressions on various surface conditions for a wide number of applications with LECO’s AMH55. The AMH55 introduces LECO’s innovative Cornerstone® brand software to our hardness testing platforms, for increased usability, simplified reporting, and streamlined analysis times.

Supporting accurate and efficient microindentation and macroindentation hardness testing in fully automatic, semi-automatic, and life configurations, the AMH55 is a valuable resource for users needing precise and productive hardness testing while tailoring the data and results to their needs.

The AMH55 is Ideal For:
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Performing a Case Depth Analysis Using the AMH55 Automatic

The AMH55 Automatic Micro/Macro Indentation Hardness Testing System combines the tasks of sample testing, measuring, converting, and documenting into one automated instrument operation. Just load the sample, select the indentation pattern(s), and initiate the test. This fully automated system makes the indentations, measures them, calculates the hardness, and then displays the results.

1. Place the sample on the stage.
2. Select Auto Focus, or use the slider function to bring the image into focus.
3. Display data on-screen, or quickly and easily export into other platforms, such as Microsoft® Excel®.
4. After the sample has been traced, patterns and indents can be placed using intuitive fly-out screens.
5. The AMH55 Semi-Automatic and Lite configurations offer the same great testing capabilities, but with less automatic functionality and features to meet your needs. Both can be upgraded to the fully Automatic version when the time is right.
AMH55
Hardness Testing Systems
Maximize your productivity and easily measure impressions on various surface conditions for a wide number of applications with LECO’s AMH55. The AMH55 introduces LECO’s innovative Cornerstone brand software to our hardness testing platforms, for increased usability, simplified reporting, and streamlined analysis times.

Supporting accurate and efficient microindentation and macroindentation hardness testing in fully automatic, semi-automatic, and life configurations, the AMH55 is a valuable resource for users needing precise and productive hardness testing while tailoring the data and results to their needs.

The AMH55 is Ideal For:
- Case Depth Analysis
- Coating Hardness
- Surface Analysis
- Powdered Metals
- Weld Profiles
- Fasteners
- Decarburization

AMH55
Hardness Testing Systems
The AMH55 supports all standard loads for microindentation and macroindentation hardness testing. The AMH55 conforms to ASTM E-384 for micro/macro hardness testing.

User-Friendly Cornerstone Brand Software
LECO’s unique Cornerstone brand software sets the AMH55 apart from other automatic hardness testers. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone gives the user complete control over their analysis parameters, method settings, calibrations, reporting, and more so that testing can be tailored to a specific application. A touch-screen interface and automatic software capabilities, such as simultaneous axis alignment and axis positional adjustment, deliver increased speed, ease-of-use, and testing reliability. This dynamic interface allows greater control to the user and incorporates LECO’s highly organized, immersive environment, which gives the user the ability to select the data conversions, method of testing, export options, report generation, and other settings that are best suited for their samples.

Performing a Case Depth Analysis Using the AMH55 Automatic
The AMH55 Automatic Micro/Macro Indentation Hardness Testing System combines the tasks of sample testing, measuring, converting, and documenting into one automated instrument operation. Just load the sample, select the indentation pattern(s), and initiate the test. This fully automated system makes the indentations, measures them, calculates their hardness, and then displays the results.

1. Select Auto Focus, or use the slider function to bring the image into focus.
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3. Clicking on any of the shaded quadrants will bring up a quad menu with tracing options.
4. Display data on-screen, or quickly and easily export into other platforms, such as Microsoft® Excel™.
5. After the sample has been traced, patterns and indents can be placed using intuitive fly-out screens.

The AMH55 Semi-Automatic and Lite configurations offer the same great testing capabilities, but with less automatic functionality and features to meet your needs. Both can be upgraded to the fully Automatic version when the time is right.
AMH55 Model Highlights and Features
Choose the model configuration that fits your needs. All models include our exclusive Corvus technology software and the following functionality:
- Advanced image recognition technology allows analysis of information not available with limited threshold-based methods
- Measures impressions with various surface conditions, including scratched or lightly etched

AMH55 Semi-Automatic
- Automatically locates and analyzes indent sets
- Automatic alignment
- Automatic pixel calibration
- Standard touch-screen interface with multi-touch capabilities
- Customizable data reporting
- Manual Focus
- Upgrade path to AMH55 Automatic available

AMH55 Lite
- Automatically locates and analyzes indents within field of view
- Automatic pixel calibration
- Standard PC/monitor with keyboard and mouse interaction; optional touch-screen interface also available
- Customizable data reporting
- Upgrade path to AMH55 Automatic or Semi-Automatic available

Options and Accessories
Stage Sample Holders
- Optional Color Hardness Contour Display
- Anti-Vibration Table

Hardness Tester Options
The AMH55 supports all standard loads for microindentation and micro-macroindentation hardness testing.

LECO Optical Service
Routine maintenance extends the life of your optical equipment.

Service
Available at our state-of-the-art facility in St. Joseph, Michigan.
- Complete repair and overhaul of your optical equipment by factory-trained service specialists
- Calibrations
- Calibrations are A2LA accredited in the U.S.A. (certificate #1845.01; copies available at www.leco.com or call 269-982-2385.
- Technical Support
- Call LECO Optical Service if you have any questions or problems (269-982-2385).

AMH55 Hardness Testing Systems
- LM-Series performs microindentations from 1 gf to 200 gf with Vickers, Knoop, or dual indenters
- LV-Series performs microindentations from 5 gf to 2500 gf with Vickers, Knoop, or dual indenters

Package Configurations
Select one of the following hardness tester options with your AMH55 package.

LM110/310 Series Microindentation
(refer to spec sheet 209-094-001)

LM248/810 Series Microindentation
(refer to spec sheet 209-094-009)

LV110/810 Series Vickers
(refer to spec sheet 209-094-002)

Optional Advanced Analysis Modules
- Color Hardness/Contour Map (shown below)
- Auto Indent Placement
- Auto Case Depth

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AMH55 Model Highlights and Features
Choose the model configuration that fits your needs. All models include our exclusive Convective brand software and the following functionality:
- Advanced image recognition technology allows analysis of information not available with limited threshold-based methods
- Measures impressions with various surface conditions, including scratched or lightly etched

AMH55 Automatic
- Simultaneous automatic alignment and automatic parfocal tools
- Automatic pixel calibration
- Automatic shading correction
- Standard touch-screen interface with multi-touch capabilities
- Streamlined and simplified data reporting; customized spreadsheet generation tools
- Optional Advanced Analysis Module for color contoured mapping

AMH55 Semi-Automatic
- Automatically locates and analyzes indents
- Automatic alignment
- Automatic pixel calibration
- Standard touch-screen interface with multi-touch capabilities
- Customizable data reporting
- Manual Focus
- Upgrade path to AMH55 Automatic available

AMH55 Lite
- Automatically locates and analyzes indents within field of view
- Automatic pixel calibration
- Standard PC/monitor with keyboard and mouse interaction; optional touch-screen interface also available
- Customizable data reporting
- Upgrade path to AMH55 Automatic or Semi-Automatic available

Options and Accessories
Stage Sample Holders
- Optional Color Hardness/Contour Map display samples hardness and location with a color representation of hardness variances.

Hardness Tester Options
The AMH55 supports all standard loads for microindentation and macroindentation hardness testing.

Package Configurations
Select one of the following hardness tester options with your AMH55 package:
- LM110/310 Series Microindentation (refer to spec sheet 209-094-001)
- LM248/810 Series Microindentation (refer to spec sheet 209-094-009)
- LV110/810 Series Vickers (refer to spec sheet 209-094-002)

Optional Advanced Analysis Modules
- Color Hardness/Contour Map (shown below)
- Auto Indent Placement
- Auto Case Depth

LM-Series performs microindentations from 5 gf to 2000 gf with Vickers, Knoop, or dual indenters
LV-Series performs microindentations from 1 Kg to 30 Kg or 0.3 Kg to 30 Kg with Vickers, Knoop, or dual indenters

AMH55 Semi-Automatic
- Automatic alignment and automatic parfocal tools
- Automatic pixel calibration
- Standard touch-screen interface with multi-touch capabilities
- Customizable data reporting
- Manual Focus
- Upgrade path to AMH55 Automatic available

Hardness Testing Systems
Routine maintenance extends the life of your optical equipment.

AMH55 Automatic
LM-Series performs microindentations from 1 Kg to 30 Kg or 0.3 Kg to 30 Kg with Vickers, Knoop, or dual indenters
LV-Series performs microindentations from 5 gf to 2000 gf with Vickers, Knoop, or dual indenters

AMH55 Lite
- Automatically locates and analyzes indents within field of view
- Automatic pixel calibration
- Standard touch-screen interface with multi-touch capabilities
- Customizable data reporting
- Upgrade path to AMH55 Automatic or Semi-Automatic available

Hardness Tester Options
The AMH55 supports all standard loads for microindentation and macroindentation hardness testing.

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Select one of the following hardness tester options with your AMH55 package:
- LM110/310 Series Microindentation (refer to spec sheet 209-094-001)
- LM248/810 Series Microindentation (refer to spec sheet 209-094-009)
- LV110/810 Series Vickers (refer to spec sheet 209-094-002)

Optional Advanced Analysis Modules
- Color Hardness/Contour Map (shown below)
- Auto Indent Placement
- Auto Case Depth

Anti-Vibration Table

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EMPOWERING RESULTS

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