

# Mobile Laboratories

## Metallography/Materials Characterization



With the only fleet of mobile laboratories in North America featuring a hands-on experience with LECO products and specialists, LECO goes the extra mile to help you achieve the right results. Our unique mobile laboratories offer you the opportunity to see our state-of-the-art instrumentation in action, while discussing everything from methods to maintenance with knowledgeable LECO representatives. Below is a list of instruments currently being featured on the metallography/material characterization mobile laboratory.



### GDS900 Glow Discharge Spectrometer

Brings state-of-the-art technology, including LECO's user-friendly Cornerstone® brand software, to your routine bulk elemental determination in most conductive solid metal matrices. The GDS900 is a versatile solution in that sample types include bulk, sheet, wire, pressed, sectioned, and mounted samples, and various sample holders are available to meet non-standard sample forms.



### PX500A Grinder/Polisher

LECO's PX500 Grinder/Polisher emphasizes ease-of-use while delivering exceptionally flat specimens that are ideal for microhardness or microstructural work at the next sample step. Designed with the latest technology, the PX500 provides an efficient, safe, reliable, and clean grinding/polishing solution. Features include bright LED's to light up the work area, a multi-touch display to simplify operation, and up to five programmable metered fluid dispensers.

### PX300 Grinder/Polisher

Our PX300 Grinder/Polisher emphasizes ease-of-use while delivering specimens that are ideal for microhardness or microstructural work. The PX300 provides an efficient, safe, reliable, and clean grinding/polishing solution for lower-volume laboratories.



### AMH55 Automated Hardness Tester

Maximize productivity and easily measure impressions on various surface conditions for a wide number of applications with the AMH55. The AMH55 features LECO's innovative Cornerstone brand software for increased usability, simplified reporting, and streamlined analysis times. Available in lite, semi-automatic, and automatic configurations to meet your hardness testing needs.

### VX4 Inverted Metallurgical Microscope / HD Monitor

The VX4 is an inverted metallograph for both brightfield and polarized observation. The metallograph comes standard with a trinocular head enabling your site to attach a camera for routine image analysis. The HD Monitor Camera System shown with the VX4 allows operators to use the microscope without a PC with basic measurement functionality built into the camera.



### LCR-500 Load Cell Rockwell-Type Hardness Tester

This fully-automatic hardness tester is built to handle high-volume workloads without sacrificing accuracy or repeatability. Test conditions such as loading speed and conversion scale can be easily set using the durable touch panel. The operator simply raises the test piece to within 8 mm of the indenter and presses start to begin the test.

# LECO

EMPOWERING RESULTS

Elemental Analysis | GC Mass Spectrometry | Metallography

## Olympus® GX Series Metallographs

The advanced Olympus GX Series sets the highest standards for image clarity and resolution in inverted metallurgical microscopes. Its modular design provides flexibility which makes it an optimal solution for diverse inspection and research needs (including video microscopy).



## Olympus SZX16 Series Microscopes

Ideal for all observation methods, these stereo and upright microscopes are designed to increase power for obtaining the highest zoom quality during macro observation at low magnification, as well as microstructural observation at high magnification. Enhanced power also is assured by the world's highest zoom range and increased focal depth. The Olympus Filter Inspector software offers a turn-key solution to fully-automated, standard-based cleanliness analysis.

## PAX-it Image Management Software

PAX-it allows you to easily capture, organize, analyze, network, transmit, and print high-resolution images. Through the use of a simple electronic filing system, millions of images can be effectively organized and shared throughout your work environment, whether within the same building or around the world, streamlining your work process.



## MX400 Mounting Press with Optional MX-Series Water Recirculator

Our fully automatic mounting press is your solution for faster, more sophisticated mounting. The MX400 boasts a slim, 8-inch wide profile to maximize lab space. A touch-screen display provides easy, user-friendly operation. The optional water recirculator allows you to connect up to two MX mounting presses to a single water recirculation unit to conserve water and prevent sediment build-up.

## CX300A Sectioning Machine

This automated bench-top sectioning machine features a motorized table controlled via touchscreen for programmable sectioning. Fully control the table, cutting motor speed, and get real-time motor load feedback for precise sectioning. The CX300 Series also features manual and linear sectioning models.



## CS744 Carbon/Sulfur

LECO's 744 Series will redefine the way you determine carbon and sulfur in metals, ores and other inorganic materials. Using extensive customer feedback and innovative engineering, our latest instrumentation takes advantage of an immersive software platform that will increase usability and lower the cost-per-analysis. Additional features—such as a variable power combustion furnace, improved IR cell design, rugged design, and available automation—make the CS744 a valuable resource for any industrial environment needing accurate analysis of carbon and/or sulfur. Ask for a demonstration of the new Cornerstone Mobile option, which allows you to view instrument information from your mobile device or computer.

## ONH836 Oxygen/Nitrogen/Hydrogen

The ONH836 family of analyzers is designed for wide-range measurement of oxygen, nitrogen, and hydrogen content of inorganic materials, ferrous and nonferrous alloys, and refractory materials. A custom software interface developed for touch-screen operation provides access to instrument control, analysis settings, diagnostics, reporting, and more. Optional autocleaner and autoloader are available.

Ask for a demonstration of the new Cornerstone Mobile option, which allows you to view instrument information from your mobile device or computer.



Visit <https://www.leco.com/resources/mobile-labs>

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