

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.

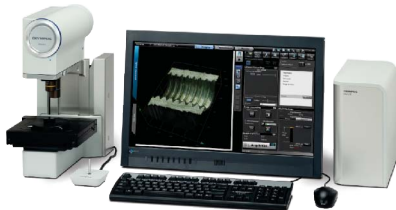


AMH55 Automated Hardness Tester

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.

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.

CS744 Carbon/Sulfur



Olympus® DSX500 Opto-Digital Microscopes

The DSX Series of opto-digital microscopes combines advanced optics and the latest digital technology in one user-friendly system. Instead of looking through eyepieces, everything is controlled by touch screen, which takes the operator through the process from inspection to measurement to analysis to final report.

GPX300 Grinder/Polisher System

Whatever your grinding or polishing need may be, GPX models are configured to match the demands of your laboratory, with convenience, flexibility, and quality in one easy-to-use system. One-piece aluminum casting design ensures rigidity for the most demanding environments, while remaining compact enough to fit even the smallest laboratory.



IA44 Image Analysis/Management System

The IA44 easily transforms raw data into valuable information that can be communicated with professional results. For added convenience, this system features the PAXcam™ color digital camera and PAX-it 2™ software for easy image management that saves, organizes, and retrieves all images and related data.

LECO
Delivering the Right Results



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.

LM248AT Microindentation Hardness Tester

Features include a unique dual indenter turret that provides Knoop and Vickers on a single tester—all with a single touch. A fixed aperture diaphragm, centerable light source, and available interchangeable filters provide metallograph-quality illumination. An automatic turret accommodates up to four objectives.



LV800AT Macro/Vickers Hardness Tester

With varying degrees of automation to suit the needs of any lab, this Macro/Vickers hardness tester allows you to test materials ranging from extremely soft to ultra hard. A fixed aperture diaphragm, a centerable light source, and available interchangeable filters provide metallograph quality illumination. The LV Series accommodates up to three objectives.

MSX250A1 Sectioning Machine

This benchtop sectioning machine is ideal for creating medium-sized sections from automotive, ceramic, and composite materials. An automatic pulse feed rate with load control optimizes cutting time, with 10- or 12-inch blade capacity and a 5.4 HP motor. These machines offer both linear and radial feed configurations.



Olympus® GX41 and GX51 Metallographs

The advanced Olympus GX-Series utilizes a modular design, making it a more flexible instrument, and an ideal solution for diverse inspection and research needs (including video microscopy). The optical system uses the UIS2 infinity-corrected optical system evolved from the industrial-leading UIS optical system.



Olympus SZX16 and BX51 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.



HD Camera/Monitor System

This system allows users to view and capture images and video directly to the supplied SD card included with the camera—no need for a computer or separate HD monitor! Camera controls are easily accessed using the supplied USB mouse.



ON736 Oxygen/Nitrogen

The ON736 family of Elemental Analyzers is designed for routine measurement of oxygen and nitrogen content of inorganic materials, ferrous and nonferrous alloys, and refractory materials using the inert gas fusion technique. Ask for a demonstration of the new Cornerstone Mobile option, which allows you to view instrument information from your mobile device or computer.



PR-36 Mounting Press

Capable of both single and dual sample mounting up to 50 mm, the PR-36 is ideal for a variety of sample mounting materials. A rugged mold enclosure system allows the sample to be installed and removed easily and safely, while quick heating and cooling of the sample leads to a shortened run-time.



Mobile Laboratory configurations may change. | Consult LECO for latest information.
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