

Corporate Product Overview



LECO
EMPOWERING RESULTS

Elemental Analysis | GC Mass Spectrometry | Metallography

Inorganic

Spectroscopy

Carbon | Sulfur

Oxygen | Nitrogen | Hydrogen

Carbon | Water

Hydrogen

Glow Discharge AES



844/744 Series

- Quick, accurate carbon and sulfur determination by combustion infrared detection
- Expanded range and increased precision for the most demanding applications
- Calibration, analysis, evaluation, and diagnostic functions accessible via user-friendly software
- Rapid sample combustion with our high-efficiency induction furnaces
- Autocleaner available
- Compatible with SmartLine® Remote Diagnostics
- Optional 10- and 60-position auto-loader
- Cornerstone® Mobile option provides access to data, plots, and instrument status from your smartphone, tablet, or desktop computer

836/736 Series

- Oxygen, nitrogen, and hydrogen by inert gas fusion
- Fast, simultaneous measurement of oxygen, nitrogen, and hydrogen
- State-of-the-art infrared and thermal conductivity detectors with no moving parts and no manual adjustments
- EN variant for large sample applications like elemental determination in uranium oxide and aluminum; Si variant for the analysis of low level oxygen in silicon wafer samples and other materials
- Optional 20-position auto-loader and autocleaner available
- Compatible with SmartLine Remote Diagnostics
- Cornerstone Mobile option provides access to data, plots, and instrument status from your smartphone, tablet, or desktop computer

RC612

- Fast, reliable carbon and water determination for a wide variety of organic and inorganic materials
- State-of-the-art furnace control system allows temperature ramping from ambient to 1,100°C
- High-efficiency afterburner ensures complete combustion of organic compounds when ramping
- Simplified furnace design eases maintenance and increases safety
- Increased flexibility by reacting in an inert atmosphere or combusting in an oxidizing atmosphere
- Optional non-sequential 50-sample auto-loader available
- Compatible with SmartLine Remote Diagnostics

DH603

- Residual and diffusible hydrogen determination by hot extraction
- Optional diffusible sample piercer
- State-of-the-art thermal conductivity detector with no moving parts and no manual adjustments
- Innovative chassis architecture improves reliability and serviceability
- Larger combustion tube to accommodate bigger samples
- Compatible with SmartLine Remote Diagnostics

Glow Discharge Atomic Emission Spectrometers

- Bulk elemental analysis only, or bulk analysis and compositional depth profiling (CDP) models available
- Spectral range from 120 to 850 nm (configuration dependent)
- Continuous profile of concentration / thickness
- Wide dynamic range with concentrations from ppm to 100% by weight
- Short analysis time (within minutes)
- Choice of RF or DC lamps for both conductive and non-conductive samples
- Easy-to-use software
- Compatible with SmartLine Remote Diagnostics
- DC/RF Combo Lamp available - switchable by software

Metallography

Sectioning



Mounting



Grinding | Polishing



Metallographic Sectioning Machines

- Section samples of all types and sizes with blades ranging from 4 to 17 inches diameter (100 to 432 mm)
- Rugged design—built to handle daily use even in harsh production environments across three shifts
- Flexible model configurations—from manual to fully automatic cutting options
- Integrated cooling liquid tanks and pumps on all models
- Full range of consumable sectioning wheels to cut materials in all shapes and sizes

MX Series

- Fully automatic mounting press with single- and dual-mounts in a variety of mold sizes
- Intuitive easy-to-use touch-screen interface
- Simple, solid-steel closure design is durable, easy to clean, and avoids jamming
- Slim, 8-inch wide profile maximizes lab space
- Optional water recirculator to save water and keep MX units clean

PX400/500

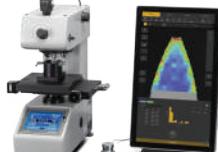
- Intuitive, touch-screen software simplifies your grinding/polishing process
- Spiral bowl design prevents drain clogs
- Up to five programmable metered fluid dispensers to meet every polishing objective
- Rugged components withstand any environment
- Fixed and individual sample method models available

PX300

- Solid and compact with a durable aluminum frame design
- Manual control of wheel speed, water spigot, and timer
- Water faucet with adjustable flow is flexible for ease of bowl cleaning
- Optional non-motorized head for multiple sample preparation

Optical Equipment

Automatic | Manual Hardness Testing



VX4 Optical Microscope

- Inverted brightfield metallograph with excellent optics and LED illumination
- Includes manual XY-stage and polarized light evaluation
- Camera port for simple camera integration

PAX-it™ Image Management System

- Complete image analysis software with a powerful file archival system
- Search, sort, and organize images according to descriptive fields
- An ideal solution for measuring, archiving, and image analysis of materials
- Optional modules for grain size, nodularity, edge detection, and more

LM/LV Series

- Micro and Macro indentation, Knoop, and Vickers capabilities
- Analog and digital models
- Touch-screen capability on select models
- Durable design for reliable performance
- Optional auto turret
- All models conform to ASTM and other specifications

LR/LCR Series Rockwell-Type

- Superficial & Rockwell scales
- Load Cell technology
- Highly accurate, reliable results
- Dead weight Rockwell-type units available
- All models conform to ASTM and other specifications

AMH55 Hardness Testing System

- Cornerstone brand software for increased usability, simplified reporting, and streamlined analysis times
- Unique patented trace function
- Automatically measures impressions with various surface conditions, including scratched, etched, or unevenly illuminated surfaces
- Application-specific modules to expedite testing
- Available in Automatic, Semi-Automatic, and Lite configurations

Separation Science

GC-MS	GCxGC-MS	GCxGC	High Resolution GC-MS	High Resolution GCxGC-MS
 <p>Pegasus® BTX GC-TOFMS</p> <ul style="list-style-type: none"> Single-femtogram sensitivity illuminates a myriad of trace level analytes Revolutionary StayClean® Ion Source design eliminates the need for source cleaning, even after sustained matrix exposure Advanced deconvolution algorithm yields clean EI spectra with excellent commercial library matching Innovative detector mechanism delivers unparalleled performance, backed by two-year warranty Time-of-flight MS collects all mass fragments, all the time—ensuring maximum chemical insights from critical samples 	 <p>Pegasus® BTX 4D GCxGC-TOFMS</p> <ul style="list-style-type: none"> Comprehensive multidimensional chromatography exponentially increases chromatographic resolution, discovering more analytes and improving identification confidence QuadJet™ Thermal Modulator delivers 5 to 10X sensitivity gain and optimized chromatographic control—available with LN2 or cryogen-free packages Paradigm™ Flow Modulator delivers affordable, robust, simple GCxGC-MS for any sample Shift™ Flow Splitter maintains constant split ratio between MS and FID for optimized quantitative capabilities Powerful ChromaTOF® Software easily surfaces critical insights from complex GCxGC data 	 <p>QuadJet™ SD Paradigm™ SD</p> <ul style="list-style-type: none"> Enhanced chromatographic separation techniques simplify group/type quantitation in complex samples GCxGC-FID systems available with LECO's QuadJet™ Thermal or Paradigm™ Flow Modulators Define complex group/type boundaries for quantitation and comparison with ChromaTOF® software Other GC detectors can be accommodated (i.e. GCxGC-SCD) 	 <p>Pegasus® GC-HRT+ GC-TOFMS</p> <ul style="list-style-type: none"> Folded Flight Path® (FFP®) delivers spectral resolution >50,000 Available with Multi-Mode Source™ (MMS™) for EI, CI, and NCI without any hardware changes or MS venting <1 ppm mass accuracy ensures accurate elemental formula determination Spectral Analysis Toolkit allows advanced data visualization with mass defect, RDBE, Van Krevelen, and other plots and tools High Resolution Deconvolution® (HRD®) produces spectra with excellent library matching and elemental composition for any mass spectral peak 	 <p>Pegasus® GC-HRT+ 4D GCxGC-TOFMS</p> <ul style="list-style-type: none"> The best chromatographic resolution paired with high-speed HRMS creates the ultimate discovery tool for GC-MS research HRT 4D retains <1 ppm mass accuracy, >50,000 resolution, and MMS from HRT—and added sensitivity boost thanks to QuadJet™ Thermal modulator Linked GCxGC contour plots and spectral analytical plots unlock chemical discoveries from many thousands of identified compounds

Organic

Calorimetry	Thermogravimetric Moisture	Thermogravimetric Analysis
 <p>AC600</p> <ul style="list-style-type: none"> Accurate and precise calorific measurements in as little as 5 minutes Ergonomic vessel and prep station design for convenient operator handling and ease-of-use Automated features including instrument water handling boost productivity Meets or exceeds ASTM and ISO requirements Intuitive software streamlining operation with flexible data reporting and exporting features Compatible with SmartLine Remote Diagnostics 	 <p>TGM800</p> <ul style="list-style-type: none"> High precision, automated thermogravimetric moisture determination, which utilizes a direct method for replacing tedious loss-on-drying techniques Measure up to 16 samples at a time with optimized drying time using mass constancy - endpoint recognition Intuitive Cornerstone brand software with flexible method settings and touch-screen operation Precise oven temperature ramping and set point control up to 175 °C Remote access through Cornerstone Mobile provides access to data, plots, and instrument status from smartphone, tablet, or desktop computer 	 <p>TGA801</p> <ul style="list-style-type: none"> Automated thermogravimetric analysis batch of up to 19 samples Determine multiple constituents ... moisture/ash, organic matter, volatile content, and LOI from a single sample in various organic, inorganic, and synthetic materials Optimized analysis time using automatic end point recognition based upon sample mass constancy Cornerstone brand software with touch-screen interface promotes an ergonomic workspace and optimised workflow Remote access through Cornerstone Mobile provides access to data, plots, and instrument status from smartphone, tablet, or desktop computer

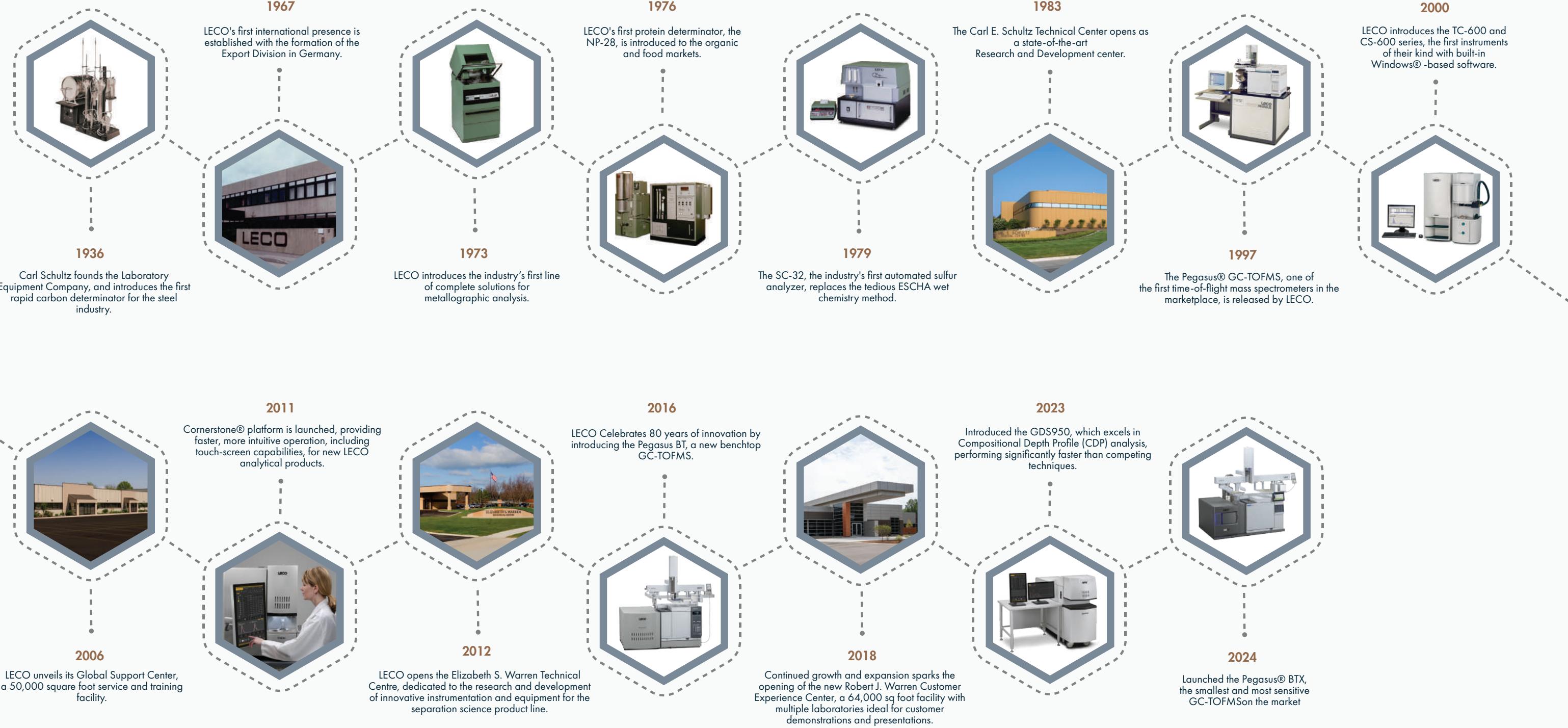
Sulfur Carbon	Carbon Hydrogen Nitrogen/Protein	Carbon Nitrogen/Protein Sulfur
 <p>832 Series</p> <ul style="list-style-type: none"> Simple, fast, accurate sulfur/carbon determination in organic materials High-efficiency furnace with intelligent control lowers operating costs and optimizes furnace reliability Individual wide-range IR detection Operator-centered design with touch-screen Cornerstone brand software promotes an ergonomic workspace and optimized workflow Optional High Temperature (HT) and Dual-Range (DR) 832 models are also available Cornerstone Mobile option provides access to data, plots, and instrument status notifications from your smartphone, tablet, or desktop computer 	 <p>828 Series</p> <ul style="list-style-type: none"> Rapid analysis cycle times as fast as 2.8 minutes with macro sample mass capabilities A reduction reagent tube lifetime of 4,000 samples extends instrument uptime and lowers operating costs Dual-stage reagent-free furnace with exclusive oxygen furnace enables application versatility using macro sample mass Cornerstone brand software with touch-screen interface promotes an ergonomic workspace and optimised workflow Optional S832 add-on provides independent sulfur determination Remote access through Cornerstone Mobile provides access to data, plots, and instrument status from smartphone, tablet, or desktop computer Complies with ISO, AOAC, AACC, AOCS, and ASBC methods of analysis 	 <p>928 Series</p> <ul style="list-style-type: none"> Rapid determination of macro sample sizes (up to 3 grams) in as little as 5 minutes Extended reagent lifetimes maximize lab efficiency and lowers operating costs Rugged design meets the demands of difficult applications Operator-centred design with touch-screen Cornerstone brand software promotes an ergonomic workspace and optimized workflow Cornerstone Mobile option provides access to data, plots, and instrument status notifications from your smartphone, tablet, or desktop computer Complies with ISO, AOAC, AACC, AOCS, and ASBC methods of analysis

LECO THROUGH THE YEARS:

The one thing all laboratories need to be successful is results they feel confident in. Since 1936, millions of samples worldwide have been analyzed using LECO instruments for elemental analysis, gas chromatography, metallography, and more. We work with our customers to find the right solution for the type of sample analysis they are performing, helping them to achieve data that is clear, consistent, and accurate. But our commitment to the customer doesn't end when our instruments are delivered.

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LECO is dedicated to enhancing the user experience long after the sale by offering thorough training on our instruments and technology, accessibility to instrument service programs that keep your instruments in top working order, and access to friendly service and support to ensure you are getting the most out of your purchase—support that will empower your laboratory for success.



EMPOWERING RESULTS SINCE 1936



VISION...

Empowering our customers to be successful.

MISSION...

Grow our business by providing industries and organizations performing chemical analysis with complete solutions and support to achieve superior results and quality.



VALUES...

- Customer Delight
- Leadership
- Open and Active Communication
- Integrity
- Respect
- Creativity
- Accountability

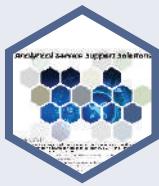
Ask your local sales or service representative to learn more about our value-added products and services.



Instrument Training



Consumables



Maintenance Plans



Advanced Software



Certified Reference Materials

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