



**BIHIS-MAALA BASICS**  
"DELIVERING GLOBAL QUALITY STANDARDS"

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# PRODUCTS

## LECO CORPORATION

### Nitrogen/Protein Analyzer

- Dumas/Combustion Method
- 3 mins per analysis
- Safer Alternative to Kjeldahl Method

### Bomb Calorimeter

- 5 mins per analysis
- Semi-Automatic and Manual Models--

### Thermogravimetric Analyzer (TGA)

- Moisture, Volatiles, FC and Ash Analyzer
- Automated Moisture, Ash, LOI, Total Solids Analyzer

### C/H/N/S/O Analyzer (Organic)

- C/H/N/S/O by combustion

### Ash Fusion Determinator

- Determines the Initial Deformation Temp, Softening Temp, Hemispherical Temp and Fluid Temp of ash

### Carbon and Sulfur Analyzer (Inorganic)

- Carbon and Sulfur in metals and alloys by combustion

### O/N/H Analyzer (Inorganic)

- ONH in metals and alloys by combustion

### Moisture and Organic Carbon Analyzer

### Glow Discharge Spectrometer

- Alternative to spark for Elemental/Bulk Analysis
- Coating/Quantitative depth Analysis

### GC - Time-Of-Flight Mass Spectrometer

- Gas Chromatograph w/ Time-of-Flight MS

### GCxGC - TOF Mass Spectrometer

- a 4 dimensional GCMS
- Uses 2 different GC columns w/ a TOF MS Detector

### Sectioning/Cut Off Machines

### Mounting Press

- Compression/Hot Mounting and Castable/Cold Mounting

### Grinding and Polishing Machine

### Hardness Testers

- Micro and Macro
- Vickers, Knoop, Rockwell, Brinell and Automated System

### Image Analyzer

- Analyzes images produced using the Inverted Microscope

### Inverted Microscope

### Metallography Supplies

- Sectioning Blades, Abrasive Discs, Polishing Cloths, Hardness Test Blocks and Mounting (Bakelite, Lucite, Epoxy)

## MECMESIN

### Force Gauge

### Universal Testing Machines

### Force/Materials Testing Machine

- Compression Testing
- Tension/Tensile Testing

### Torque Testing Machine

### Food Texture Analyzer

- Simulate firmness, sliceability, tenderness, chewiness, etc
- Compression, Bulk, Penetration/Puncture, Shearing/Slice, Snap, Tension/Tensile and Extrusion Testing of Food.

## OXFORD INSTRUMENT

### Quality Control NMR Spectrometer

- Solid Fat Content Analysis
- Total Oil/Fat Content as an alternative to soxhlet

### Low Field NMR Spectrometer

- uses a 60 mHz magnet
- 1H, 19F, 13C, 31P, 11B, 29Si, 23Na, Sn, Te, Xe, Cd, Pt

## SYKAM

### HPLC

### Amino Acid Analyzer

- Automated mixing of reagents and post derivatization

### Ion Chromatograph

## TONI TECHNIK

### Vibrating Table

### Automatic Cement Mixer

### Automatic Vicat Machine

### Automatic Blaine Device

### Differential Calorimeter

### Compression and Bending Machine

### Cement laboratory supplies

## DEFELSKO

### Coating Thickness Gage

### Wall Thickness Gage

### Shore Hardness Durometers

### Pull off Adhesion Gage

### Salt Contamination Gage

## THERMO SCIENTIFIC

### XRF Spectrometer

### XRF with Compact XRD

### XRD

### Spark OES

## BWB TECHNOLOGIES

### Flame Photometer

- Sodium, Potassium, Calcium, Lithium and Barium (Na, K, Ca, Li, Ba) Analysis

## HERZOG

### CEMENT INDUSTRY

### Crusher

### Pulverizer

### Pellet Press

### Electric Fusion Machine

### Sampling Systems

### STEEL INDUSTRY

### Milling

### Grinding

### Cutting and Punching

### Slag Sample Preparation



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# PRODUCTS

## LABORATORY EQUIPMENT AND SUPPLIES

### Oven

### Furnace

### Environmental Chamber

- Stable control of Temperature, Humidity and Lighting

### Autoclave and Sterilizers

### Incubators

- Temperature, CO2 and Humidity Control

### Water Baths/Chillers/Recirculators

### Fumehood and Scrubber

### Microwave Digestion System

### Hot Block Digestion System

### Crucibles and Lids

- Platinum Crucibles
- Nickel, Stainless Steel, Zirconium and others

### Flash Point Tester

### Water Baths/Chillers/Recirculators

### Sieves and Sieve Shaker

### Laminar Flow Cabinet

### Biosafety Cabinet

### Pressure Regulators

### Incoming Gas Filters

- Filters, Moisture Traps and Hydrocarbon Traps

### Cement Laboratory Eqpt/Supplies

- Flow Table
- Autoclave
- Double Mould
- Triple Mould
- Cube Mould
- Grinding Aid For Pelletizing
- Fusion Flux

### Airjet Sieving Machine and Airjet Sieves

### AAS Standards and Supplies

### ICP OES Standards

### Coal Certified Reference Materials

### Cement Standards

### CHNSO Certified Reference Materials

### Calorific Value Standards/CRM

### Benzoic Acid

### Inorganic Standards

### Metallography Supplies

- Sectioning Blades
  - Diamond, CBN and Al2O3 Blades
- Mounting Supplies
  - Bakelite, Epoxy, Lucite
  - Polyester, Acrylic, Epoxy
  - Molds and mixing kits
- Abrasive Discs
  - Silicon Carbide, Aluminum, Ceramic, Zirconium
- Polishing Supplies
  - Polishing Cloths
  - Polishing Compounds
  - Diamond Polishing Compounds and Suspensions
- Hardness Test Blocks

### Coal Laboratory Eqpt/Supplies

- Hardgrove Grindability Index Tester
- Rotary Sample Divider
- Crusher
- Pulverizer
- Air Drying Cabinet
- Sieves and Sieve Shaker
- Coal Certified Reference Materials
  - CHNSO
  - Calorific Value
  - Moisture, Volatiles, FC, Ash

## AIRGAS USA LLC

### Gas Handling Equipment

## ULTRAFLEX

### Induction Melters

- Static Induction Melters
- Tilting Induction Melters

### Induction Casting Machines

- Centrifugal Casting
- Pressure-Over-Vacuum Casting

## GASES

### Calibration Gases

### Mixed/Customized Gases

### Ultra High Purity Gases

### EPA Protocol Gases

### Application/Industry Specific Gases

- Biological Atmosphere (anaerobic and aerobic mixtures)
- Gas Chromatograph Gases
  - Flame Ionization Mixtures
  - Electron Capture Mixtures
  - Thermal Conductivity Gas Mixtures
- Hydrocarbons
- Spark Chamber Mixtures

## SERVICES

### After Sales Support

- Installation, Commissioning and Onsite Training
- Preventive Maintenance
- Remote Troubleshooting
- Repair
- Application Support

### Calibration Services

### Gas Lines Installation

- High Purity Stainless Steel Gas Lines
- Protect Equipment from corrosion and leaks from low quality gas lines