



BIHIS-MAALA BASICS

"DELIVERING GLOBAL QUALITY STANDARDS"

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SEMICON & INORGANICS CATALOGUE

METALLOGRAPHY/MICROSTRUCTURAL ANALYSIS



Sectioning/Cut off Machines



Grinding and Polishing Machines



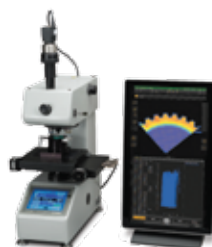
Mounting Press



Metallography Supplies



Inverted Microscope



Hardness Testers

- 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

ELEMENTAL/CHEMICAL ANALYSIS



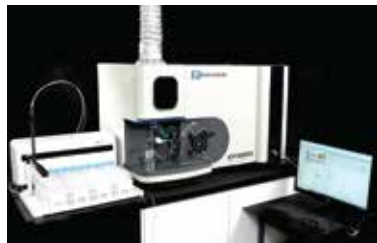
X-Ray Fluorescence (XRF)
9900



XRD
Equinox



Atomic Absorption Spectrometer
AA500



Inductively Coupled Plasma (ICP) - OES
ICP500 DV



Glow Discharge AES
GDS900

- Applications
- Bulk Elemental Analysis - Alternative to SPARK OES
 - Quantitative Depth Profiling
 - Surface Analysis
 - Coating Depth Analysis

- Alternative to Spark OES for Elemental Analysis
- Analysis spots are more precise and repeatable
 - Low argon consumption

- Quantitative Depth Profiling
- Layer-by-layer elemental analysis (per micrometer)



Oxygen, Nitrogen & Hydrogen
ONH836



Carbon & Sulfur Analyzer
CS844



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OTHER PRODUCTS



Universal Testing Machines
Omnitest

Applications

- Compression Testing
- Flexural/Bend Testing
- Tension Testing
- Torque Testing



Particle Size and Shape Analyzer
Sync

Applications :

- Particle Size Analysis/Particle Size Distribution
- Particle Shape Analysis : Sphericity, L/W ratio, diameter ellipse ratio, concavity, curvature and more

Performs size and shape analysis simultaneously

Ovens

- Natural air convection oven
- Forced/fan air convection oven
- Atmosphere controlled oven

Furnaces

- Ashing Furnace
- Furnace with integrated balance

Environmental Chambers

Controlled Temperature, Humidity and Lighting

Microwave Digestion Systems

Models : 6 , 12 and 168 sample capacity
Uses either Quartz or PFA teflon vessels for digestions

Crucibles and Lids

Platinum crucibles and crucibles made of other material

Standards and Supplies

AAS, ICP and Flame Photometer Standards

Fumehood

- Ducted
- Non-Ducted



Induction Melting Furnaces
Easymelt



Casting Machines
EasyCast J

GASES AND GAS LINES



Gases

- Mixed Gases
- EPA Protocol Gases
- Ultra High Purity Gases
- Calibration Gases
- Gases for CEMS and AQMS



Gases Lines Installation



Expensive equipment requiring a connection to a gas cylinder sometimes encounter problems because of low quality gas lines (leaks, corrosion, impurities and moisture)

Our company installs high purity stainless steel gas lines. We also install the required regulators, filters, compressors, mounts, gas cylinder storage and more that ensure a long lasting gas lines that protect your equipment, minimizes increased operating cost due to leaks of gases and reduces down time.