



BIHIS-MAALA BASICS

"DELIVERING GLOBAL QUALITY STANDARDS"

+632 79452145

+632 89413159

sales@bmbasics.com

http://bmbasics.com/

COAL CATALOGUE

COAL ANALYSIS and SAMPLE PREPARATION



Ultimate Analyzer (CHNS)
Carbon, Hydrogen, Nitrogen and Sulfur

Dumas/Combustion Method

Features and Benefits

- **Sample Size:** up to 3 grams (S), up to 1 gram (CHN)
- **Fast Analysis Time:** 2 mins/analysis (S), 4.5 mins/analysis (CHN)
- **Automation:** 30 sample autoloader (option of 60,90,120)
- **User Friendly:** Weigh sample > place in analyzer > after 2 mins(S) and 4.5 mins (CHN), you get the result
- **Safety:** No solvents and fumes
- **Low cost-per-analysis:** Extended gas and filter usage
- **Carrier gas:** Can use Helium or Argon gas
- **No digestion, distillation and titration!**

Models :

- Carbon, Hydrogen and/or Nitrogen Analyzer
- Sulfur and/or Carbon Analyzer



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



Sieves and Sieve Shaker



Bomb Calorimeter/ Calorific Value
AC600

Semi-Automatic Isoperibol Bomb Calorimeter

- Automated water handling
- Automated raising/lowering of vessel and sealing

Features and Benefits

- **Fast Analysis Time:** 5 mins/analysis
- **Uses as recirculating chiller for water handling**
- **Option of standard or halogen resistant vessel**
- **Safety:** self diagnostics and vessel recertification



Ash Fusion Determinator
AF700

Determines the following :

- Initial Deformation Temperature
- Softening Temperature
- Hemispherical Temperature
- Fluid Temperature

Gives indication when ash sinters, melt and flow

Automatic determination using Image Recognition Function



Air Drying Oven



Automated Proximate Analysis
Moisture, Volatiles, FC and ASH
Thermogravimetric Analyzer (TGA)

Automatic alternative to the oven and furnace method

Analysis of Moisture, Volatiles, FC and ASH in a single run

Features and Benefits

- **Automated:** lets you perform others tasks
- **Reduces error due to the following :**
 - human error due to wrong recording/encoding of data
 - reintroduction of moisture during transfer to and from the desiccator, oven, furnace and analytical balance
- **Safety:** Minimal analyst exposure to high temperatures
- **Analysis of 19 samples at a time**
- **Programmable**



Rotary Sample Divider



Crusher



Crusher



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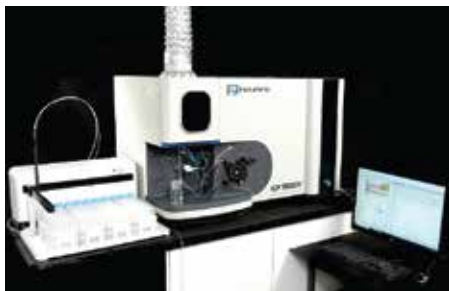
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COAL CATALOGUE

WATER ANALYSIS



**Atomic Absorption Spectrometer
AA500**



**Inductively Coupled Plasma (ICP) - OES
ICP500 DV**



**UVVIS
T85**

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.

LABORATORY SUPPLIES

Ovens

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

Furnaces

- Ashing Furnace
- Furnace with integrated balance

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

- CHNS Certified Reference Materials and Supplies
- AAS and ICP-OES Standards
- Calorific Value Standards
- Benzoic Acid
- Weight Loss Standards for TGA