



BIHIS-MAALA BASICS
 "DELIVERING GLOBAL QUALITY STANDARDS"

+632 79452145

+632 89413159

sales@bmbasics.com

http://bmbasics.com/

CEMENT CATALOGUE

PHYSICAL TESTING



Compression and Flexural Machine
ToniZEM

Automatic, Servo Hydraulic machine in the accuracy class 1 category

Configured according to ASTM, EN or BS standards



Automatic Vicat Machine
ToniSET

Automated determination of setting times according to ASTM or EN standards (6 - 12 samples at a time)

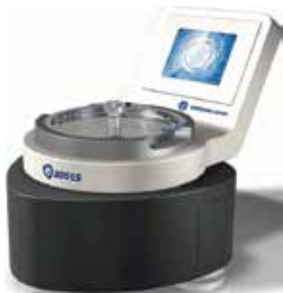
Uses a controlled temp recirculating water to maintain temp and relative humidity close to the manual method



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



Air Jet Sieve Machine
e200LS



Auto Cement Mixer
ToniMIX

W/ auto sand and water dosing



Auto Blaine Device
ToniPERM

improves consistency by removing human error through automation



Differential Calorimeter
ToniCAL

Determination of heat of hydration



Vibrating Table
ToniVIB

METALLOGRAPHY/MICROSTRUCTURAL ANALYSIS



Sectioning/Cut off Machines



Grinding and Polishing Machines



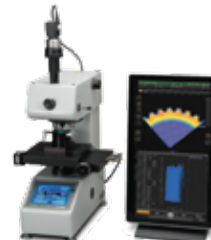
Mounting Press



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



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ELEMENTAL/CHEMICAL ANALYSIS



**X-Ray Fluorescence (XRF)
9900**

Models:

- WDXRF : from 50W to 4200W systems available
- EDXRF
- XRF w/ compact XRD

2500W and below systems does not require a chiller

1 sample prep/sample for XRF and XRD analysis



**Flame Photometer (Na, K, Ca, Li, Ba)
BWB XP**

Analysis of Sodium and Potassium



**XRD
Equinox**



**Moisture, Ash and LOI Analyzer
Thermogravimetric Analyzer**

Automatic alternative to the oven and furnace method

Analysis of Moisture, Ash and LOI

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 : No analyst exposure to high temperatures
- Analysis of 19 samples at a time
- Programmable



**Semi Automatic Bomb Calorimeter
AC600**

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
- Automation : Water handling and sealing of vessel



**Carbon and Sulfur Analyzer
SC832**

Carbon and Sulfur in cement and coal samples by dumas/combustion method

2 mins analysis per sample

SAMPLE PREPARATION



Jaw Crusher



Pelletizing Press



Pulverizing Mill



Automatic Pulverizing Mill and Pellet Press

Fine grinding and preparation of pellets in steel rings (40 or 51.5 mm diameter) for XRF spectroscopy



Electric Fusion Machine

Cool to cool operation

Option of automated sequential preparation of up to 9 samples

Accurate temperature control improves consistency



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CEMENT CATALOGUE

ONLINE ANALYZER



ONLINE CROSSBELT ANALYZER

Alternative to CNA and PGNA

Uses NIR Technology.

NO RADIO ACTIVE SOURCE!

Online analysis of CaO, Al₂O₃, SiO₂, Fe₂O₃ and H₂O in the material passing through the crossbelt



ONLINE AIRSLIDE ANALYZER

Uses NIR Technology. NO RADIO ACTIVE SOURCE!

The only analyzer that can perform online analysis on the material passing through the airslide.
(After the raw mill, homogenizing silo and cement mill)

Online analysis of :
Standard : CaO, SiO₂, Al₂O₃, Fe₂O₃
Option : MgO, SO₃, Na₂O, K₂O, Cl-
finished cement : C₃S, C₂S, C₃A, C₄AF

Improve analysis frequency for LSF STDev control from every 40mins-2hrs to every 1 minute.

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

Standards and Supplies

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

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

Cement Laboratory Eqpt/Supplies

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