

# MINING PRODUCTS



- Crushers/Mills
- Sieves/Shakers
- Separators/Concentrators
- Ovens
- Balances
- Point Load Testers
- Core Splitters



Table of Contents

Balances / Scales . . . . . 3

Crushers /Sample Preparation. . . . . 4

Bench Ovens. . . . . 8

Shakers . . . . . 10

Sieves / Screens. . . . . 12

Splitters. . . . . 13

Point Load Testers . . . . .14

Rock Hardness. . . . .16

Core Splitters . . . . .17

Rock Shear . . . . .18

Microscopes . . . . .19



## Balances / Scales



### GP Industrial Balance Series

#### GP Series

##### Features

- IP-65 Splash Proof Keyboard, Display and Base Units
- GLP/GMP/ISO Compliance
- ID Number
- Optional Underhook
- Internal Calibration
- Perfect solution for asphalt/concrete aggregate and density testing



### Newton Compact Balance Series

#### EJ Series

##### Features

- LCD display with backlight
- Percentage and counting
- Full digital calibration
- AC power or alkaline battery operation (batteries not included)
- RS232C and USB output optional



### Everest Compact Balance Series

#### EK/EW-i Series

##### Features

- Large LCD display (16mm height) with back light
- Control zero, mode selection and data output with standard RS-232C
- Counting function with Automatic Counting Accuracy Improvement
- Standard comparator function--HI/OK/LO annunciator
- Full Digital Calibration with optional user definable mass setting
- Models with an asterik "\*" are NTEP approved legal for trade

## Crushers/Sample Preparation



### LC-401 Holmes Hammermill Coal Crushers

Suitable for larger feed sizes up to 6in (152mm). Maximum throughput is about 4,000lb (1,814kg) per hour and final sizes range to 3/16in (4.75mm). Standard rotor speed is 1,260rpm. Inquire for optional speeds up to 2,360rpm. Capacity of the covered feed hopper is 1.6ft<sup>3</sup> (45L), and crushing chamber dimensions are 10x15in (254x380mm). Includes a choice of two screen plates in sizes 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 3/4, or 1in (3.2, 4.8, 6.4, 7.8, 9.6, 12.7, 19.2 or 25.4mm), specify when ordering. Inquire to purchase other sizes separately. A sample collection container, and 10ft (3m) of four-wire conductor, rubber-covered cable for connection to a power source are also included.



### Foss Tecator Cyclotec Sample Mill

Self-cleaning, flow-through design for fast, uniform grinding of feeds, grains and leaves

- Grinds samples with up to 10% moisture and oil content
- Maximum throughput: 4g/second, 40 samples/hour
- Maximum sample size: 10mm
- Hopper capacity: 100mL
- Motor: 0.5hp
- Maximum speed: 20,000rpm
- High-volume airflow enables self-cleaning and minimizes heat increase, thermal degradation, and cross-contamination



### Laarmann Jaw Crusher LMC-400

LAARMANN Jaw Crushers for Coarse Primary Crushing and Mid Range Primary Crushing

LAARMANN Jaw Crushers are well proven single toggle, high reduction Jaw Crushers. The crushing capacity and the end-fineness of the sample material depends on the type of crusher and on the breaking characteristics of the sample material. LAARMANN Crushers are designed for laboratory applications and for operating environments and accepts soft to hard ores, drill cores, rocks, alloys, slags, soils, ceramics and similar hard and brittle materials.

## Crushers/Sample Preparation



### Laarmann Ring Mill LM 2000

LAARMANN Ring Mills for precrushing of soft to hard ores, drill core, Rock, alloys, soils, chemicals, ceramics and similar materials.

The LAARMANN Ring Mills LM 1000 LM 2000 and LM 5000 can handle samples of 50ml up to 5000ml (depending on the model). These samples can be ground to 90 to 95% down to  $< 75\mu\text{m}$ , in app. 1-3 minutes.

- LM 1000: Bowl 50cc to 1000cc
- LM 2000: Bowl 50cc to 2000cc
- LM 5000: Bowl 5000cc



### Laarmann Micro Ball Mill Lab Wizz 320

Superior Mill engineered for rapid and reproducible sample preparation procedures. The LAB WIZZ can handle simultaneously two or more samples from 0.2 ml up to 160 ml. Grinding, Mixing and Cell Disruption in one machine.

The Laarmann LAB WIZZ is designed for "1001 laboratory applications". Typical Processing times are between 15 and 45 seconds. The LAB WIZZ can prepare 2 or more samples from 0,2ml of up to 160 ml. It is designed as well for high-sample throughput.



### Laarmann Mortar and Pestle Mill MG 100

#### Power Mortar Grinder MG 100

Universal, High Performance Mortar Grinder for processing of solid materials in dry, wet or cryogenic condition. Superior Mortar Grinder engineered to reproducible grind and mix sample volumes from 10 up to 200ml.

#### Applications

Cocoa beans / chocolate paste, Food and animal food, Maize, beans, Creams, emulsions, Soil samples, Minerals, Glass, ceramics, Cement clinker, cement



## Crushers/Sample Preparation

### Guardmatic MS 510 General Purpose Saw



3 hp, 5 hp, or 7-1/2 hp electric motor options. Dual capacitor increases power efficiency and reduces run amperage, making it an ideal machine for low voltage conditions. Capable of cutting 8" x 8" x 16" block in one pass with a 20" blade. Only two pivot points for reduced saw maintenance and longer diamond blade life. Cutting head pivots on bearings which are sealed and lubricated for life. No greasing required.

A patented cutting head allows for easy removal and transportation on electric models. Height can be controlled with a convenient crank control on foot pedal. The Sta-level® blade guard keeps the blade guard parallel to the cutting table for accurate cuts. The ergonomically designed steel handle with molded grip bolts securely into place.

### Core Trimmer & Cut Off Machine Supplied with Coolant Pump Unit



This unit, designed for use in Rock Mechanics, can also be used in mineralogy, ceramics and refractory sample preparation. Cores in excess of 140 mm length and cubes up to 100 mm square can also be prepared.

Supplied complete with coolant recirculation pump/tank unit and 1 each diamond set cutting disc and double faced cup wheel. For 220 – 240 V AC, 50 Hz, 1 ph.

# Crushers

Particle Top Size	Final Size mm/µm	Description	Max. Feed Capacity lb (kg)/hr	Grinding Elements	Element Media	Applications	Model
152	3.2MM	Holmes Hammermill	2500 (1136)	swing hammers	manganese steel	coal, coke	LC-401
152	6.4MM	Morse Jaw Crusher	4000 (1818)	8x8" jaws	steel alloy	rock, ores, minerals	LC-24
101	1.5MM	Braun Jaw Crusher	800 (364)	9x4" jaws	steel alloy	rock, ores, minerals	LC-35
101	1.5MM	Braun Jaw Crusher	800 (364)	9x4" jaws	steel alloy	rock, ores, minerals	LC-36
101	1.5MM	Badger Jaw Crusher	1300 (591)	5x7" jaws	steel, chrome alloy	rock, ores, minerals	LC-37
101	6MM	Morse Jaw Crusher	2500 (1136)	5x6" jaws	steel alloy	rock, ores, minerals	LC-22
76	1.5MM	Braun Jaw Crusher	400 (182)	6x3" jaws	steel alloy	rock, ores, minerals	LC-33
76	1.5MM	Braun Jaw Crusher	400 (182)	6x3" jaws	steel alloy	rock, ores, minerals	LC-34
76	6MM	Morse Jaw Crusher	1200 (545)	4x6" jaws	steel alloy	rock, ores, minerals	LC-20
50	1.6MM	Holmes Hammermill	1000 (455)	swing hammers	manganese steel	coal, coke	LC-201
25	3MM	Mini Crusher	15 (7)	2x2" jaws	steel alloy, others	rock, ores, minerals	LC-8
13	212µm	Lab Cone Crusher	1770 (805)	6" cone	manganese steel	hematite, quartz	LC-70
13	212µm	Lab Cone Crusher	3540 (1610)	10" cone	manganese steel	magnesite, hard rock	LC-72
6	106µm	Mini-Pulverizer	20g/batch	grinding plates	aluminum, tung. Carbide	rock, ores, minerals	LC-7
6	75µm	Braun Lab Pulverizer	60 (27)	grinding plates	iron alloy, others	rock, ores, minerals	LC-53
4.75	250µm	Holmes Pulverizer	350g/min.	rotor & hammer	hardened steel	coal, coke	LC-350
7.75	250µm	Holmes Pulverizer	350g/min.	rotor & hammer	hardened steel	coal, coke	LC-500
7.75	250µm	Holmes Pulverizer	400g/min.	rotor & hammer	hardened steel	coal, coke	LC-501
4.75	250µm	Holmes Pulverizer	400g/min.	rotor & hammer	hardened steel	coal, coke	LC-501X
13	2mm	Marcy Roll Crusher	8,000 (3,636)	iron rollers w/Ni hard facings	iron, alloy, others	rocks, ores, minerals	LC-14
13	38µm	Cup Pulverizer	200ml/batch	puck & ring	user selectable	rocks, ores, soil, minerals, glass	LC-115

## Bench Ovens



### Large Capacity Bench Ovens - Models 323, 333, 343

Low cost, large capacity Bench ovens for shelf processing at temperatures to 400°F. Designed to handle a wide variety of applications such as baking, curing, drying and preheating.

- UL listed control panel
- Meet the requirements of National Fire Protection Association Standard 86, Industrial Risk Insurers, Factory Mutual and OSHA

MODEL 323 - Designed specifically to fit through a standard 30" wide door opening, when fully assembled. This model provides a generous 16 cubic feet of work space.

MODEL 333 - Provides a roomy 27 cubic feet of work space -- 70% more capacity at only a little more cost than our Model 323.

#### MODEL 343

It's a full foot deeper than Model 333. Ideal for longer or larger items and bigger batches. A giant 36 cubic feet of work space.



### Quincy 21-350 Oven

- Fan forced air circulation for even work area temperature. Incoloy Sheathed elements of low watt density and large 7/16" diameter for long life
- 6 lb mineral wool high density insulation for reduced heat loss and efficient operation
- Adjustable shelves on 1½" centers for total of eleven in either model
- Piano type door hinges for proper alignment and fit
- HIGH/LOW heat switch to help maintain greater sensitivity at lower set temperature
- Baked in scratch resistant finish - six foot cord with plug furnished on all models
- All bench ovens have aluminized interiors. High impact thermoplastic cool handles are used
- Model 21-350 has a 6' electrical cord with a 3 prong 20AMP plug
- The amps rating above is based on 115 volt
- Gasketed doors
- Full 18 month guarantee



## Bench Ovens

### FX28-2 SHEL LAB Forced Air Oven

Large Forced Air Oven With Microprocessor, Six Shelves, 27.5 Cu.Ft.



The SHEL LAB Model FX28 is the largest general purpose oven on the market. The independent overtemperature safety feature is user adjustable and provides added safety. The forced, blower-assisted airflow design offers excellent temperature uniformity and fast recovery. A turbo blower and heavy-duty motor combine to direct air over the shelves and samples for even, constant drying, curing and baking. These units are especially ideal for glassware drying.

- Three inch Adjustable Exhaust Port
- Stainless Steel Shelves
- Independent Overtemperature Safety
- High Temperature Silicone Door Seal
- No Exposed Heating
- Wrap Around Insulation
- Durable Powder Coat Paint Exterior Finish
- Digital Timer
- 24 Month Limited Warranty

### FX14-2 SHEL LAB Forced Air Oven

Large Forced Air Oven With Microprocessor, Three Shelves, 13.7 Cu.Ft.



The SHEL LAB FX14 features 14 cubic feet of economical oven space. The independent overtemperature safety feature is user adjustable and provides added safety. The forced, blower-assisted airflow design offers excellent temperature uniformity and fast recovery. A turbo blower and heavy-duty motor combine to direct air over the shelves and samples for even, constant drying, curing and baking. These units are especially ideal for glassware drying.

- Three inch Adjustable Exhaust Port
- Stainless Steel Shelves
- Independent Overtemperature Safety
- High Temperature Silicone Door Seal
- No Exposed Heating
- Wrap Around Insulation
- Durable Powder Coat Paint Exterior Finish
- Digital Timer
- 24 Month Limited Warranty

## Shakers



### TS-1 Gilson Testing Screens

The Gilson Testing Screen is ideal for particle size determinations on large samples of aggregate, slag, ores, and many other coarse materials. Batch sizes up to one cubic foot (0.028m<sup>3</sup>) or more can be processed into six fractions in as little as three to five minutes, depending on material type. Vibration and amplitude characteristics are fixed at optimum for mineral aggregates in the 4in (101mm) to No.4 (4.75mm) size range, but options and accessories are available to optimize machine performance when testing finer samples or special materials. The standard Testing Screen can be used to process material all the way down to No.200 (75µm) if less efficient separations are acceptable.



### TM-5 Gilson Test-Master® Testing Screens

- Counterbalanced drive for smooth, quiet operation.
- Integral hopper for easy sample handling.
- Fully enclosed to minimize dust.
- Built-in digital timer for maximum test repeatability.

Features an easily controlled, integrated hopper for easier introduction of sample material and vertically-hinged front panel doors for improved access and clearance. The 1.6ft<sup>3</sup> (45.3L) hopper is hinged at the rear and allows the sample to be introduced incrementally as the machine is running. When the hopper is closed, a panel blocks dust from escaping through the opening. The narrower panel doors require less space to open and fold flat across the front of the unit.



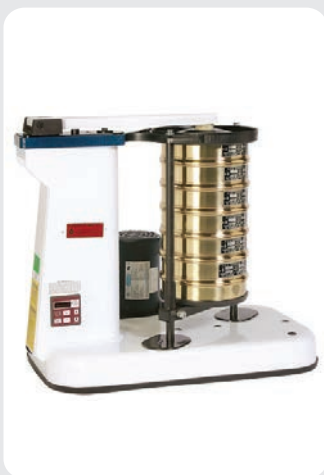
### SS-23 Wet/Dry Sieve Vibrator

Inexpensive electric sieve vibrator is helpful for separations of fine mesh samples using one or two 8in diameter, full-height sieves.

For wet samples, place unit over sink without pan and use WT-7 Spray Fitting, WT-5 Spray Mist Dispenser, and other wet sieving accessories described elsewhere. In dry sieving, use SSA-20 Bucket or Pan to catch undersize or use extended-rim sieve pan with single sieve.

Vibrating unit is mounted on a durable, powder-coated steel frame. Includes 3-wire cord and plug for 115V, 50/60Hz operation. Vibrator Est. Ship Wt.: 10lb (5kg). Bucket Est. Ship Wt.: 5lb (3kg).

## Shakers



### Ro-Tap® TEST SIEVE SHAKERS

Ro-Tap® is available in 5 models. The RX-29 for 8" test sieves, RX-30 for 12" sieves, RX-94 Duo Shaker for two 8" sieve stacks, RX-29 E (Electronic) for 8" sieves, RX-30 E (Electronic) for 12" sieves, and RX-812 Coarse Sieve Shaker. Metric equivalents: 8" diameter = 200mm diameter and 12" diameter = 300mm.

The Ro-Tap® Sieve Shaker series are available in 110v or 220v power options. The Ro-Tap® E units are CE Approved. All sieve shakers are supplied with an operations manual, including unit diagrams that feature parts schematics. The units are well built, durable, and require little, if any, maintenance.



### Rotary Lab Sifter G-213-HM-300A

The Rotary Lab Sifter quickly and efficiently processes samples in either 8"(203mm) or 12"(305mm) sieves.

- Simple conversion between the two sieve sizes takes less than a minute and requires no tools.
- Sieve stacks require no clamping and the mechanism is completely enclosed.
- The sieve stack is continuously rotated at an angle. UHMW polyethylene faced hammers apply additional agitation for effective separations.
- Sieve stack capacity is 6 full-height, 12" sieves plus pan, or as many as 20 8", half-height sieves plus pan.
- Case construction is dense, humidity and impact resistant MDF board.



### Ro-Tap® E Premium Sieve Shakers

The Ro-Tap Test Sieve Shaker series are available in 110v or 220v power options. The Ro-Tap E units are CE Approved. The Ro-Tap® electronic test sieve shaker operates with 8" or 12" diameter test sieves and offers precise sieving results.

- Designed for light to medium testing applications
- Controlled constant amplitude
- Digital controls
- Quick release hold downs
- Fine and coarse analysis control settings
- See-through cover

## Sieves/Screens

### W. S. Tyler Sieves



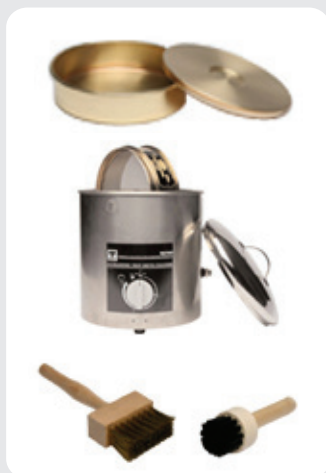
Standard Test Sieve diameters include 3", 8", 12", 200 mm, and 300 mm. Special application products are available in 6", 10", and 18" diameters and include air jet and wet test designs. All W.S. Tyler Test Sieves are fabricated in brass and durable stainless steel. Our premium quality sieve cloth, woven by Haver & Boecker, is produced to the very tight tolerances, providing consistent repeatable analysis. Standard openings per international specifications range from 5" (125 mm) down to 20  $\mu$ m (micron).

### Gilson Screen Trays for Screening Machines



Screen Trays meet relevant wire cloth specifications of ASTM E 11, AASHTO M 92 or ISO 565, 3310-1. Cloth is designated "S" for plain steel or "SS" for stainless steel. Wire cloth sized for specified machines. Trays with cloth No.16 (1.18mm) and finer use support ribs or coarse backup cloth to support mesh.

### Sieve Accessories



Test Sieve Accessories include stainless steel and brass sieve covers and pans, cleaning brushes and an ultrasonic test sieve cleaner.

## Splitters

### SP-1 Universal Sample Splitters



- Adjustable-width chutes.
- Lever-release hoppers.
- Six models to choose from.

Adjustable-width chutes and lever-release hoppers to assure top accuracy when mixing and reducing bulk materials for representative test samples. Universal Splitters are versatile, convenient, and cost-effective. A single model serves the purpose of two or more conventional splitters. Since material flow is controlled with a lever-release, only the included sample collecting pans are necessary for proper use.

Models:

- SP-0 Mass Splitter
- SP-1 Sample Splitter
- SP-2 Porta-Splitter for 2in (51mm)
- SP-2.5 Versa-Splitter® for 3/4in (19mm)

### Sample Splitters (Riffles)



- Short, steep channels for rapid flow and easy cleaning.
- Stainless steel hopper for rust resistance and long life.
- Includes three pans, scoop and cleaning brush.

The ELE Sample Splitters are designed for dividing or halving dry materials such as soils, sands, cement, gravel, powdered ores, coal, and similar material. The materials poured into the hopper are divided into two equal portions by a series of chutes which discharge alternatively in opposite directions into two separate pans.

Each Sample Splitter includes a stainless steel hopper supported on a painted steel frame, three pans, a flat-type scoop and a cleaning brush.

Models:

- EI23-3052. 14 chutes, 1/2" (13 mm) chute width.
- EI23-3102. 14 chutes, 3/4" (19 mm) chute width.
- EI23-3152. 16 chutes, 1" (25 mm) chute width.
- EI23-3302. 8 chutes, 2" (51 mm) chute width.
- EI23-3352. 8 chutes, 2-1/2" (64 mm) chute width.



## Splitters

### Precision Sample Splitters



- Stainless steel and aluminum alloy construction for rust resistance and long life.
- Convenient cut-off gate control.
- Includes two sample pans.

This line of splitters has been developed to meet the requirements of reducing small size samples in the field or laboratory. Constructed of stainless steel and aluminum alloys, these splitters incorporate a cut-off gate which stops the flow of materials from the hopper.

The Precision Sample Splitter is ideally suited for use in fine powdered or pulverized materials which frequently tend to segregate.

Models:

- E123-3360. 14 chutes, 1/8" (3.18 mm) blade width.
- E123-3370. 32 chutes, 1/4" (6 mm) blade width.
- E123-3380. 16 chutes, 1/2" (13 mm) blade width.

## Point Load Testers

### Digital Point-Load Test Apparatus



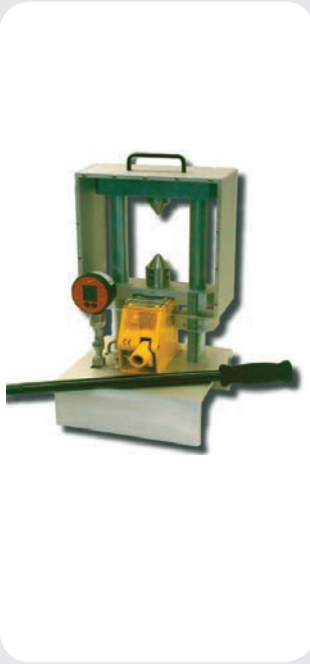
The apparatus comprises a two-column fixed crosshead frame and a hand operated hydraulic jack.

Pressure applied by the jack extends the piston carrying the lower conical point. The upper point is fixed to the crosshead with a scale mounted on the frame to provide specimen diameter information for use in point load strength index calculations.

Pressure is indicated directly on the digital readout unit. Loads up to 55 kN can be applied to specimens as large as 101.6 mm in diameter. The apparatus is supplied complete with heavy-duty face mask.

## Point Load Testers

### Point Load Tester



- Conical platens conform to ISRM suggested method
- Direct Reading of specimen diameter
- maximum load indicator
- portable
- shield protects from flying chips upon failure
- extreme rigidity

The PIL-7 point load tester consists of a loading frame, a mounted hydraulic ram and a pressure gage for maximum load indication. An upper conical platen is fixed on the frame and a lower one on the jack piston. A graduated scale is fixed on the frame and indicates the specimen diameter.

### Point Load Tester



Portable instrument which can be used in both the laboratory or in situ to determine the rock strength index of rock samples or cores.

The values required for the calculation of the rock strength index are failure load and distance between the conical points.

Parameters:

- Max. work pressure: 60Mpa
- Piston diameter: dia.35mm, stroke:160mm
- Piston area: 9.62 cm<sup>2</sup>
- Capacity: 100KN
- Resolution: 0.1KN
- Peak value memorized

## Rock Hardness

### RockSchmidt Test Hammer



The RockSchmidt is the world's most advanced rebound hammer fully adapted specifically to the extremely varied rock testing applications.

The RockSchmidt incorporates statistical methods based on ASTM and ISRM recommendations and provides the user with the freedom to define his own statistical process for determining a rebound number.

Type N with standard impact energy is most suited to field testing. Type L with low impact energy as specified by ASTM for testing cores.

- Impact Angle Independence
- Optimized for Field Work
- Preset Statistics
- Unconfined Compressive Strength
- E-Modulus
- Weathering Grade

### Original Schmidt Test Hammer



The Original Schmidt will hit at a defined energy whereas its rebound is dependent on the hardness and is measured by the instrument. The Original Schmidt is available in models with different impact energies, each test hammer designed for a specific test application, in order to meet the needs of the customers to investigate a wide range of material types and sizes, such as bridge decks, thin walls, cast stone components or small components.

Type N: Rebound values are read from a scale for subsequent calculation of the mean. Compressive strength values can be read from a conversion diagram

Type L: Handling equals type N, but the type L offers an impact energy three times smaller

## Core Splitters

### Electro-Hydraulic Core Splitter



This sturdy instrument is easy to operate and requires little maintenance. A low noise concept and a safe speed of operation make it highly efficient through long working hours. Because of its configuration and the safety guard panels, the operator's position is risk free from split rock fragments.

To split, the operator pulls the lever to lower the hydraulic cylinder and blade. Always keep hands away from descending blade. Once split, push the lever upwards to raise the blade to a desired height. If the lever is pushed completely upward it will automatically return to a ready position, leaving time for the operator to prepare another core.

This compact design is equipped with carrying handles which make it easy to transport.

### Core Splitter



The Pothier Core Splitter handles core diameters from 3/4" (19mm) to 2 7/8" (73mm), in lengths up to 3 3/4" (95.3mm).

The core is split by laying it lengthwise on the Vee Block and lowering the knife by rotating the hand wheel. When the knife is in firm contact with the core, a sharp blow with a hammer on the rod cap, or a quick snap on the handle, will cleanly split the core.

## Rock Shear

### Rock Shear Box Apparatus



It is a simple and practical method of determining the strength and slope stability of rock, both in the field and in the laboratory. The apparatus consists of a shear box designed to accept samples not larger than 115x125 mm, or alternatively cores up to 102 mm dia. The shear box consists of two halves, the upper being connected to two rams for reversible shearing action and the lower connected to a ram for normal load application. The loads are recorded by Bourdon tube load gauges or by pressure transducers (in this case external datalogger).

The normal loading system is complete with an adjustable low friction pressure maintainer to absorb volume changes of the specimen during the shearing action and to ensure a constant vertical stress.

Two versions available;

- Digital rock shear box apparatus with digital gauges to ASTM D5607
- Digital rock shear box apparatus with potentiometric transducers to ASTM D5607

## Microscopes

### Nikon SMZ 18



- Crystal clear images in fluorescence as well as normal illumination techniques
- Easy-to-operate slim LED DIA base with OCC illumination (oblique lighting method developed by Nikon)

The SMZ 18 is revolutionizing stereomicroscopy with its unique zoom range, along with modularity, comfort and ultra-high-performance optics. These new SMZ cover a wide range of functionality, from basic stereoscopic images of unparalleled quality to the most sophisticated observation.



## Microscopes

### Nikon Eclipse LV100 POL



- Reversed centering quintuple nosepiece
- High-precision rotating stage
- Intermediate tube

Nikon's Eclipse polarizing microscopes are renowned for their ability to produce brighter, clearer, and higher contrast images. The LV100 POL, available in diascope and episcopic illumination types, continues this tradition and offers a completely reengineered base for even easier operation. It also features an exclusive high-intensity halogen light source, which delivers brighter images, lower power consumption and less heat generation, thereby reducing the chance of heat-induced focus drift.

### Nikon Eclipse MA200



- Front operation
- Box structure
- High performance
- Cost effective

The Eclipse MA200 is a compact inverted microscope specially designed to meet the needs of reflected light observations requiring either brightfield or simple polarization illumination techniques. Its small foot-print, durable construction, simple operation, and superior Nikon optics, make it an ideal bench-top solution.

Some accessories are:

- holders
- stage
- diascope unit
- nosepiece and magnification module

Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing  
Environmental Monitoring  
Test & Measurement Instrumentation

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