

**LABORATORY AND PILOT SIZE
MATERIALS TESTING AND
HANDLING EQUIPMENT FOR THE
PROCESS INDUSTRIES**



www.sepor.com • info@sepor.com

718 N Fries Ave., Wilmington, CA 90744 • Phone: 310-830-6601 Fax: 310-830-9336



Sepor, Inc has re-designed our website sepor.com. This reference will give you an abbreviated list of our complete range of mineral process and pilot scale equipment. Sepor has provided equipment to the mining and process industries for more than 55 years.

Sepor has made many enhancements to our internet site. Some of these enhancements include: search capability, a "quick search" function, and downloadable product information sheets.

We encourage you to check out our revised information. Sepor does not intend to publish our 128 page catalog of products and will rely on giving our customers the most current and useful information via our internet location. As always, Sepor has people with experience in the process industries to assist with your particular application.

Sepor has incorporated an optional one-time login information entry. By entering your personal login name and password, your contact information will only need to be entered once. This is optional and is not required to visit our site or to view product information.

Visit us today!! [**www.sepor.com**](http://www.sepor.com)

Phone: 310-830-6601
Fax: 310-830-9336

[**Sepor now accepts VISA and MASTERCARD**](#)



Table of Contents

	Product Code	Page
Crushing & Grinding	010	1-2
Solids Handling	020	3
Pumps, Air Compressors and Dust Control	030	4
Screening and Sampling Equipment	040	5-7
Gravity Separation / Concentration	050	8-9
Magnetic / Electro Separation	060	10
Filtration and Dewatering	070	11
Mixers, Blenders and Agitators	080	12
Heat Processing and Fire Assay	090	13
Laboratory Equipment and Tools	100-160	14



- JAW CRUSHERS** - Single toggle, bearded shaft, alloyed construction. Capacity Availability: 180kg/hr.-7,200kg/hr. 010A
- GYRATORY CONE CRUSHER** - Marcy Gy-Roll. Cast manganese steel concave and mantle wear plates. Optional stand available. Crushing Capacity Availability: 110kgs/hr - 225kgs/hr 010B
- DUAL ROLLS CRUSHERS** - Up to 4:1 reduction, reducing 5 cm particle to 1.27 CM. Capacity Availability: 227 kgs/hr -3,600 kgs/hr 010C
- IMPACT CRUSHER/HAMMERMILL** - Cast ductile iron, open latch sensor, reversible rotor assembly. Capacity Availability: 680kgs/hr - 1,800kgs/hr 010D
- JAR ROLLING ATTRITIONS MILLS (BENCH)** - Continuous duty. For wet/dry grinding, jar cyanide tests, bottle rolling. Accommodates jar sizes of 5cm to 38cm. Features timers, jar stops, variable roll speed. Roll length: from 33cm to 152 cm. 010E
- SEPOR DRIVE ROLLS** - This unit used for wet or dry grinding. The rolls can be driven at any incremental speed, between 40 and 230 RPM. Mill containers sold separately. Available in 2, 3, or 4 roll model. 010E
- BATCH BALL AND ROD MILLS** - Heavy duty construction, machined rolling rings, a quick-threaded removable yoke, a rubber gasketed lid with handles, and interior lifter bars, grind from 1000 to 2500 gram charges. Grinding media is also available. 010E
- GRINDING JARS/ MEDIA** - Jars: Ceramic, High Alumina, Stainless Steel, and Neoprene-lined. Volume availability: 0.3L-25L. Media: Flint Pebbles, Metal Balls, YTZ Media, Alumina cylinders and spheres, High Carbon Steel, Zirconia available for milling and grinding. 010E
- SEPOR BATCH BALL MILL** - Constructed 316 stainless steel (wetted parts) as standard. Discharge port with ball retainer plate and a clean-out/feed port opposite from the discharge port. Wet/dry grinding. 20 cm x 61 cm, 38 cm x 53 cm, 61 cm x 91 cm 010E
- SEPOR BOND GRINDING TEST MILL** - 30cm x 30cm ball mill used for FC Bond method of grindability testing. operates at 70 RPM, automatic revolution counter, synchronous motor, smooth operating electric clutch. Includes ball charge. 010E
- AUTOGENOUS GRINDING MILL** - Designed to do autogenous or semi-autogenous grinding, with the proper length to diameter relationship, contour of the mill heads, and placement of internal lifters and deflectors. Reduction or elimination of grinding media costs and contamination. Available in 182cm x 61cm 010E
- BALL/ROD MILL - CONTINUOUS** - Primary or regrind circuits for pilot plants. Wet/dry grinding or small commercial size applications. Heads of high grade ductile iron. Babbitted trunnions include forward and reverse spirals. Furnished on a common structural steel base. 010E
- VIBRO ENERGY - GRINDING MILLS** - Three dimensional vibration. Available with various chamber linings of stainless steel, ceramic, and abrasion-resistant elastomer. The dry grind units have thick cast polyurethane linings. Wet or wet/dry models available. Volumes range from 0.5L to 690L 010E



MINI-PULVERIZER - SEPOR. Available in two models with disc plates made of wear resistant alumina or tungsten-carbide. Iron wear contamination reduced. Designed to prepare one to twenty gram samples, quick acting closure, and easy to clean. Disc plates are interchangeable.

010F



BICO PULVERIZER - Bico UA pulverizers are simple, durable fine grinding machines. Constructed with a high tensile cast iron frame and an alloy steel shaft. Parts are easily accessible for cleaning. Standard iron alloy plates supplied, additional plates available in varied materials.

010F



MARCY-McCOOL LABORATORY DISC PULVERIZER - Capable of reducing 0.60cm feed to -100 mesh at a rate of 27 to 54 kgs/hr. Housing design allows for easy access to the grinding chamber for cleaning and inspecting. Available in 16cm or 24cm diameter disc models. Marcy grinding plates are available.

010F



FRITSCH PULVERISETTE II - Motorized mortar and pestle used for micro-milling. Free turning pestle, flexible scraper, and sealed grinding chamber for dust-proof, loss-free processing. Complete with safety viewing cover. Useful capacity: 150ml. Speed: 80 RPM.

010G



HAND MORTAR AND PESTLE - Agate has exceptional abrasive resistance, high degree of chemical purity; no impurities enter sample during grinding. Symmetrical octagonal shape. Comes with a suitable pestle. Also available in ceramic, cast iron, and vase style . Volume range 10ml-600ml

010G



MINI THOR MILL - Desktop rotary cup mill, with capacity from 40gm to 100gm. Includes timer, sound insulated cabinet, mechanical bowl clamp. 40gm and 100gm chrome steel grinding containers are available. (May be used on Thor Mill, with adapter)

010G



THE THOR MILL - Large capacity rotary cup mill. Will grind up to 1.2 Kg samples. Equipped with control timer, pneumatic bowl clamping, magnetic starting switch and insulated, sealed cabinet for reduced noise. Grinding sets available from 200gm to 400-600gm or 1,000 - 1,200gm capacity chrome steel grinding set.

010G



ROTARY CUP MILL - Bico Gyrotory cup mill, 250 cc chrome alloy steel grinding bowl. Insulated cabinet is sealed for reduced noise. Supplied complete with a 250 ml capacity bowl with grinding components, timer and a magnetic starting switch.

010G



ROTARY CUP MILL - *Bleuler*. Used to intensively grind and homogenize laboratory size samples. Reproducible results obtained through the automatic safety timer that stops at any preselected period up to six minutes. Optionally available is a sound-proof benchtop chamber.

010G



HARDGROVE GRINDABILITY TESTER (Coal/Coke) - Compact, precision built instrument designed for the determination of the grindability potential of coal or coke. Construction is per ASTM designation D-409 and ISO Standards. Test standards optionally available.

010G



PULVERISETTE 0 - Electromagnetic-powered mortar generates vertical oscillations to a single grinding ball. Grinding forces can be controlled, with built in timer, to enable very reproducible results. Volumes of up to 10ml are ground, wet or dry, to analytical fineness.

010G

PULVERISETTE V - Planetary motion, wet/dry batchwise grinding of - 10mm to less than 1micron. Up to 4 bowls of 250 or 500 ml each. Bowls with covers are 500, 250, and 80 ml volume; balls are 10, 20, 30, and 40 mm diameter. Available in a wide variety of materials, Agate is standard. Economy models available.

010G



VIBRATING FEEDER - Vibrating, electro-permanent magnetic drive, and transformer type controller. Enclosed drive element is dust and moisture resistant. Each model comes with one feed tray in a choice of three sizes; rectangular pan shape in mild steel construction. Capacity Availability: 2-7 tons per hour.

020A



VIBRATING BIN FEEDER - Constructed of mild steel. Trays, hoppers, and adjustable spouts available in stainless steel. Volumatic feeder and dual vibratory action. Each model is available in three hopper sizes. Capacity Availability: 2-15 tons per hour

020B



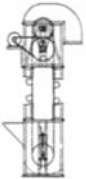
BIN VIBRATOR - Minimize clogging and sticking materials in hoppers, chutes, and feed bins. Choose from 8 models for applications ranging from the tiniest hopper to a bin with a 6-ton capacity. Three types are available.

020C



BELT FEEDER - Feeders have an adjustable slide gate. Equipped with motor, speed reducer with V-belt drive, roller chain drive system, OSHA-type guards, hopper and belt feeder, all integrally mounted on support leg structure. Hopper Volume Range: 1.5-3 kLs

020D



BUCKET ELEVATOR - Bucket conveyor capacities range from 14 TPH to 3,000 TPH, discharge heights ranging from 4.5M to 15M vertical. Units are available for medium to heavy duty applications. Contact parts are available in carbon steel, polyethylene, stainless steel, or with abrasion resistant wear liners.

020E



MINI - CONVEYOR - Modular conveyor. Small and portable. 3 meter sections may be hooked together to form up to 46M conveyor. Belt is 30cm wide PVC, 0.5cm thick. Capacity Range: 1-2 TPH to 20 TPH

020G



SCREW CONVEYOR - Horizontal "U" through screw conveyors in sizes ranging from 15cm diameter through 61cm diameter and lengths from 3 meters to 52 meters. Can be utilized to transport solids in a totally enclosed environment. Equipped with conveyor, drive, motor, feed inlet and flanged discharge. Capacity Range: 360kgs./hr. to 725 metric tons/hr.

020H



SLURRY PUMPS (HORIZONTAL) - Designed to prevent excessive wear of the pump components. 3.8 cm x5 cm rubber lined slurry pump for pilot plant operations, 576 liters per minute maximum capacity.

030A



VERTICAL SAND PUMP/SUMP (Pilot Size) - Vertically mounted centrifugal slurry pump with sump integral to port. Cast iron or steel and the wear parts of the pump are a hard nickel- chromium alloy. Pump capacity based on 25% solids.

030A



CENTRIFUGAL PUMP - Heavy-duty centrifugal pump. Transport water and other nonaggressive chemicals. Delivers process water to heat exchangers, air scrubbers, spray systems and other process/pilot plant equipment. Available with close couple motor or pedestal mounted for direct and belt drive systems. Pumps are sealed type with stainless steel shafts.

030A



CENTRIFUGAL PUMPS (HIGH CAPACITY) - Constructed of 316 stainless steel. Can be specified for spray washers, scrubbers, leach circuits, and other chemically compatible systems. Motors close coupled, TEFC, seals are viton, teflon, carbon, or ceramic. Provision for seal flush water is available. Chemical pumps also available.

030A



METERING PUMP - DIAPHRAGM TYPE - B/W Precise feed control of liquids, powered by a permanent magnet motor with a solid state controller. Pump heads are machined of acrylic, polypropylene, or polyethylene. Diaphragm is teflon coated Buna and the O-ring is made of viton.

030B



DIAPHRAGM PUMP - Positive displacement pump for metering up to 4 GPM of liquids and slurries. Will deliver to 9M of TDH. Manual stroke adjustable capacity. Corrosion resistant pump, a neoprene diaphragm, and PVC pump housing and check valves. Dimensions: 94cm L x 33cm W x 46cm H.

030B



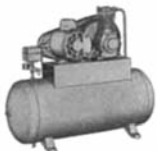
PERISTALTIC PUMP - B/W. Variable speed, pumps use tubing assembly of short length with two quick connector ends. Specify tygon or norprene tubing material. Pump supplied with two tubing assemblies and 152cm of vinyl suction tubing and polyethylene discharge tubing. Optional accessories available.

030E



VACUUM PUMPS - Gast. Rotary vane vacuum pumps are available in sizes for lab and pilot plant operations.

030F



AIR COMPRESSORS - Stationary mounted one and two stage compressors, delivered air rates from 3 to 58 CFM.

030G



FUME SCRUBBER - PVC packed tower type fume scrubbers for the removal of certain contaminated gases from a gas stream. Water is used as the scrubbing medium. Gas is reduced in velocity to no more than 150 M/min. Two configurations are available, fume scrubbers are 96% to 99% effective. Capacities range: 500 CFM to 12,000 CFM.

030H



DUST CONTROL - UMA dust collector, completely self- contained, compact and ideal for laboratories or pilot plant use. Air flows ranging from 650 CFM-6,000 CFM. Variety of fabric filter type dust control units available for removing airborne dust particles.

030H

	<p>STANDARD TESTING SIEVES - <i>W.S. TYLER</i> - Testing screens conform to Federal Spec RR-S-366b and International ISO specifications. Certification available. Made in a variety of diameters, metal alloys, and heights. Nesting frames are snug-fitting and easily handled.</p>	040A
	<p>ULTRASONIC SIEVE CLEANER - Lightweight, portable, stainless steel tank with drain. 30 minute dial timer. Holds two 8" diameter full height sieves. Ultrasonic sieve cleaner, complete with generator and tank.</p>	040A
	<p>SEPOR WET/DRY SIEVE SHAKER - Lightweight cast aluminum, electrically operated, portable, designed for use with one or two 8" diameter full-height or four half-height testing sieves. Frame is PVC coated, 3-wire cord and plug, on-off switch, and a neoprene protective motor cap.</p>	040B
	<p>SEPOR VIBRA-PAD - Plastic coated pad mounted on a variable speed vibrator. Accommodates one to six 3" diameter nested testing sieves (not included). Unit handles compaction, settling, bubble removal, etc. Equipped with variable control, 1.8M cord and plug, resilient mounting, 13cm square pad with 4 pillars, two anchor studs, wing nuts, washers, and garter springs.</p>	040B
	<p>ROTAP SIEVE SHAKER - Tyler. Uniform horizontal circular motion and tapping action for 14 half-height 20cm diameter sieves. Equipped with an enclosed driving mechanism, adjustable leveling feet, 30 minute digital timer, and virtually maintenance free. Can be converted to accommodate 12" diameter sieves. Meets ASTM, Government, and Industrial specifications.</p>	040B
	<p>GYRATORY SIEVE SHAKER - Operates with Combs gyratory action. Smooth and noiseless. HL-8 accommodates up to 16 half height 8" diameter sieves. Used for batch sieving and supplied with tappers. Can be mounted on an overhead support.</p>	040B
	<p>FRITSCH ANALYSETTE III - Sieve Shaker</p>	040B
	<p>WET SIEVING KIT - Designed by Sepor for use with the Gyratory Sieve Shaker. Stainless steel pan, funnel and spray nipple top cover. Nipple to be connected to a flexible water feed hose.</p>	040B
	<p>SIEVE BEND - Used for size classification and dewatering of fine particles. No power requirements, low operating cost, screen is reversible, quiet, and efficient in processing high capacities of material. Frame, housing, and feed box constructed of mild steel, screen of stainless steel. For classifying particles in the size range from 1 mm to 100 microns.</p>	040B
	<p>SONIC SIFTER - Suited for dry fine screening. Screens particles up to 5,660 microns. Screen uses vertical, oscillating column of air set in motion by an audio loudspeaker, no horizontal scrubbing or attrition of particles occurs, input power is adjustable. Sifter uses 7cm diameter sieves, and holds 6 standard sieves or 3 precision mesh, double height sieves.</p>	040B
	<p>SWECO VIBRO ENERGY SCREENS - Provides effective sizing, wet/dry use, requires less floor space, maintenance, and blinding. No transmitted vibrations. Available in many diameter sizes, up to 4 decks can be mounted on single base. Available in all stainless steel construction.</p>	040C



PORTABLE SCREEN - Light, compact, fully portable, wet/dry use, smooth, quiet operation. 040C
 Uses fast, vertical elliptical vibration. Easy change of screen panels. Single or double deck.
 Available with optional mobile stand. Screen Dimensions: 60cm x 90cm



RECTANGULAR SCREENING MACHINES - Multi-Vib rectangular inclined circular 040C
 throw vibrating screening machines accomplish size classification of ores, chemicals and
 other materials by vertical sizing. All screen decks are curved horizontally, perpendicular to
 the material flow, and deck panels are parallel. Screen panels are available in high carbon or
 stainless steel.



GILSON TEST (MASTER) - Gilson Testing Screen is designed for sizing test samples of ores, 040D
 crushed stone, sand, gravel, slag, coal, coke, wood chips and similar materials. TM-5 and
 TM-6 units are equipped with automatic built-in push button timer, permanent door enclosures,
 hydraulic foot-pedal screen clamping, and the enclosed case confines dust and noise. All options
 and accessories are compatible with existing TM-1, TM-2, TM3, TM4 and TS-1 models.



GILSON PORTA SCREEN - New design, features free-standing operation, portability, 040D
 rapid leveling, and built-in digital timer. Unit will screen up to 27 kgs of material.
 Tray dimensions are 40 x 42 x 7cm. Tray area is 36 x 36cm. PS-4 holds seven trays and
 bottom pan. Unit: 48cm L x 42cm W x 106cm H.

Every sampling operation is an experiment in probability. The effect on results using heterogeneous materials will be greatest when the granularity is divergent; the specific gravity differences are large; and the quality is widely ranged from the average. A Jones-type sampler is a practical compromise. Sampling is a process of crushing, mixing, and cutting; and the next steps are crushing, mixing and cutting-again and again to the final cut.

1. The sampler should be on a firm, level plane - all dimensions. All feed introduction should be at a level plane.
2. Test the sampler for equal splits. Adjust, bend, or shim the legs or frame for leveling.
3. Material should be mixed through the sampler at least once before making any cuts. Recombine by pouring individual splits over each other or through the sampler again. After a split, mix it through the sampling device before making the next split.
4. Avoid a wide divergence of particle size. Coarse grains travel and change direction faster than fine grains. Large differences in particle size is the major cause of segregation and sample distortion.
5. Channels for material flow should be more than three times the maximum size particle. Greater widths are suggested especially for grains smaller than 10 mesh.
6. Material should be introduced to the cutters: a) at right angles, b) at a vertical or close to vertical drop, c) almost immediately after leaving the hopper or discharge container, d) at a speed consistent with the discharge capability of the sampler. Feed material should never be allowed to be hindered or pile up in a chute or cutter, e) equally (except moving, revolving chutes where constant and proper speeds are important), f) when feeding by hand, use the left as often as the right hand.



SEPOR MICROSPLITTER (JONES) - SEPOR. Specially designed Jones-type riffle 040G
 sampler for mixing moderately fine-grained materials and obtaining homogeneous splits.
 Unit is entirely constructed of 1/8" hard aluminum alloy. Stainless steel construction available.
 Four Hy-Back pans supplied.



SEPOR PRECISION RIFFLE SPLITTER - Each splitter includes a stainless steel 040G
 hopper, with gate and frame - Size 1/4", 3/8", 1/2",. Jones Type 1/2", 3/4", 1" Gilson Quad
 and porta Splitter Seopr 16:1 Fractional Splitters. In addition to the precision riffle splitters,
 we have a complete line of riffle splitters for almost any application in a lab setting.



SEPOR ROTARY SAMPLE SPLITTER - Most accurate method of extracting 040J
 representative samples from dry granular or powdered material. Consists of a tum-table,
 removable sample containers, vibrating tray, and hopper. Made in two different models to
 accommodate 12 (2.4 L) or 24 (2.8 L) stainless steel containers.



BATCH SLURRY SAMPLER (ROTARY) - Motorized slurry sampler for batch sampling of slurries. Reduces 20 L to two 1 liter representative samples. Contact parts are stainless steel or anodized aluminum except for fiberglass reservoir. Two 1-liter sample containers are provided. 18L plastic container for catching reject material is optional.

040J



VENIN SAMPLER, SLURRY - Designed for totally enclosed incremental sampling of slurries. Ideal for use as a secondary sampling machine. Reduce primary sample volume for laboratory analysis. Slurries containing up to 40% solids may be effectively sampled. Stainless steel construction available. Dry solids model available. Sample cuts from 2.5% to 10% available

040J



SLURRY SAMPLE SYSTEM (PLUS) - Designed to take representative cuts of falling slurry streams or relatively low volumetric rates. Samplers are available with mild steel or stainless steel contact parts. Available in pneumatic or mechanical models.

040J



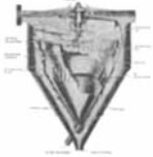
SAMPLING PROBES - Triers and sampling probes for granular minerals, ores, and chemicals. Essentially rust proof, constructed of seamless brass, bronze, or with plated steel points. Available in wide range of diameters (1cm-3cm) and lengths (15cm-160cm).

040H



MISCELLANEOUS SAMPLING EQUIPMENT - SEPOR. Belt samplers have hand grip, 2cm pipe fitting for optional extension, and are constructed of air-craft type aluminum alloy. Slurry samplers available in 1.5L (stainless steel) or 7L (aluminum) capacities. Neoprene rolling cloth and cleaning brushes also available.

040I



AIR CLASSIFIER (Low Air Volume) - Flat blade fan within a dual inner and outer cone. 050A
 The feed is acted on by centrifugal coarse gravitational forces and a fan air stream, can classify almost any dry powdered material including minerals, ores, metal, chemicals. Construction of mild steel. Stainless steel available.



AIR CLASSIFIER (Micron Particle) - Very high degree of accuracy, can handle large volumes of material, and simple to operate with microprocessor controlled operation. Feed rate of up to 10kgs per hour. Air Classifier Requires 20 CFM of Air @ 70 PSI. 050A



AIR CONCENTRATING TABLE - Clean and concentrate sand size minerals, coal, coarse and fine grains. Adjustable splitter bars and tilt vibrating deck is adjustable in four directions. Deck, air supply, and vibration frequency are index controlled. Capacity is 60-200 kgs./hr. Larger commercial models are available 050A



CYCLOSIZER - Rapid and accurate particle analysis. Effective separating range is 50 to 8 microns with 2.7 gravity material. Handles samples up to 100 grams. Consists of five 7cm diameter cyclones and support equipment mounted on a console cabinet. Dimensions: 160cm L x 48cmW 180cm H. 050B



HYDROCLASSIFIERS (CONTINUOUS) - Designed to make separation in the size range of -100 mesh. Deslimes, washes and classifies material. Feed enters the feed-well in the center, and flows radially outward. Equipped with discharge pipe. A small slurry pump is used to transport discharged solids. 050B



SPIRAL CLASSIFIER - For continuous classification, desliming, washing, and dewatering of solids. Three sizes available, portable, self-contained, heavy duty shaft, and flared steel tank with weir and support legs. Available in stainless steel construction or elastomer coverings. 050B



THICKENER - SEPOR. Static thickener features two arm rake mechanism, adjustable feed well, running in oil gear mechanism, v-belt drive, flanged overflow launders, underflow discharge cone and support legs. Construction of mild steel tanks and stainless steel wetted component construction is also available. Tank diameter range: 90cm-400cm 050E



WET GRAVITY TABLE - Wilfley and Deister tables are available from lab size (100 Kg/Hr) to production size (1-2 TPH). Most efficient gravity separators for ores of differing density, ranging from sand sized to 40 microns, of all gravity type separators. 050C



FLOTATION MACHINES CONTINUOUS - From a continuous column flotation machine with a 7 cm diameter laboratory column flotation cell, to Denver type continuous flotation machines, with usable volumes from 7 liters to 1.4 Cubic Meters, we have a complete selection of pilot scale flotation machines 050D



LABORATORY FLOTATION MACHINE (D-12) - Denver. Equipped with 250, 500, 1000, and 2000 gram stainless steel tanks and one 1000g clear acrylic tank, two inter- 050D changeable adapting impellers and diffusing parts, transparent recirculating collars, one stainless steel attrition scrubbing kit, vanning plaque, magnet and mounted tachometer. 050D



JIGS - Variety of jigs available for efficient separation of minerals from differing density materials. Our mineral jigs are suited for material between 2 mm and 100 microns in particle size. Jigs have production rates from lab scale (9 x 16) to 400 TPH (16x24 Duplex)

050G



SPIRAL CONCENTRATOR - Spirals in coal processing are high capacity, lightweight fiberglass construction, use no power, use no reagents and effectively remove pyrites from coal. Most spirals are available in single start, double start or triple start versions, giving two or three times the capacity for the same floor space. Single spiral test stand is also available.

050F



CENTRIFUGAL CONCENTRATOR - Gold concentrators utilize 60 G's, can handle up to 0.63cm feed at 25% to 40% solids. Simple, rugged, reliable, non-labor intensive with high recoveries. Sizes ranging from 12cm to 96cm.

050L



PORTABLE CYCLONE TEST ASSEMBLY - Sepor. Complete cyclone test unit with 7.5 hp motor (1800 rpm) and 3.2cm piping. Equipped with a 100 liter mild steel baffled sump, 3.8cm x 5cm horizontal slurry pump, frequency inverter for variable speed control, all mounted on a structural steel frame with swivel casters and belt guard. Stainless steel sump optionally available.

050K



MERRILL-CROWE PLANT - We manufacture Merrill Crowe Zinc Precipitation Plants for the recovery of gold and silver from cyanide solutions. We manufacture two primary sizes, the 65 ton per day (38 liter per minute) and the 300 ton per day (189 liters per minute)

050M



Quick Category Search:

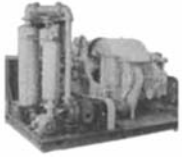
060A-L



MAGNETIC/ELECTRO SEPARATION - We have a wide variety of magnetic separators, both low intensity and high intensity, for wet and dry separation, using permanent drum and electro-magnets, for laboratories and small scale production. We also have lab electrostatic separators.



Quick Category Search:



FILTRATION/DEWATERING - Sepor has a line of batch pressure filters, vacuum filters, plate and frame filters for laboratory use and small scale production and pilot plant applications.	070A-D
FILTRATION - 11.5 Gallon floor mounted, 3 gallon batch in SS and MS.	070
GALLIGHER STYLE - Floor mounted 3 gallon filter in SS and MS.	070B
BATCH VACUUM FILTER - Bench Top in SS and MS	070C
PAN FILTERS - Simplex and Duplex in SS and MS	070C
PILOT PLANT AND LAB FILTER PRESS	070B



STIRRERS/MIXERS - Wetted parts of stainless steel. All units come equipped with cord, three-pronged plug, and 20cm horizontal support bar. RPM range: 500-7500. Wide range of propeller and shaft extensions available. Mixers available in fixed, portable, single or double propeller, and economy models. Shaft lengths range from 91 cm to 152cm.

080A&B



AGITATOR TANK SYSTEMS - Agitators are designed for either batch or continuous operation. A variety of sizes are available for lab and pilot scale use. Sizes range from 22 liters to 1,900 liters. Mix system includes appropriate mixer, baffled tank with flanged outlet and inlet. Single or multi-stage agitators available.

080C



ATTRITION SCRUBBER - Intensively mixes and scrubs mineral products. Propellers and shaft are rubber or urethane coated, tanks are welded of mild steel and available with urethane, rubber, or neoprene linings. Available in laboratory to pilot plant sizes.

080C



BLENDERS - Pilot, Commercial cone type 18" to 42".

080D



DRUM ROTATORS - Rock-over design, built-in tipping lever, 208L drum into and out of mixing position. Eight adjustable rubber wheels at a speed of 10, 20 or 30 RPM. Lift, and end-over rotator available.

080H



Quick Category Search:



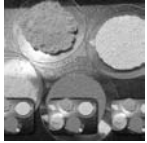
HOT PLATES - Standard, Economy and Heavy Duty models.

090A



DRYING OVENS -Budget, Bench, Portable, Industrial gravity forced air ovens. Large cabinet electric and gas. Conveyor and walk in.

090B













FIRE ASSAY - Crucibles, Annealing Cups, Cupels, Scorifiers, Assay Reagents and Litharge.

090C



FURNACES - Bench, lab and assay types.

090D

	WEIGHING - Pulp density scales with stainless steel and plastic container. Precision balanced	100A thru 100D
	EXPLORATION SUPPLIES - Wide range of tools and supplies for exploration. Sample bags, core splitters (manua/electric), estwing tools, distance finders, pocket transits, altimeters, barometers, GPS mapping, and portable UV mineral lights.	110A thru 110U
	OPTICAL - Scientifically designed and made to exacting standards. Wide range: precision stereo, industrial, minerology, and pocket microscopes. Features include 10X-up to 160X magnification, built-in illumination, and rack-and-pinion focusing. Hand lenses, comparators and reticles also available.	120A thru 120H
	TEMPERATURE - Stainless steel dial thermometers built for industrial use. Stems available in lengths from 6.3cm up to 203cm. Thermometers are sealed. Pointed stems available. Temp range: -40°C to 500°C. Digital, scanning, and lab glass thermometers, and thermocouple probes also available.	130A thru 130C
	MOISTURE - Moisture balances for accurate and effective moisture analysis. Can accommodate samples up to 310 grams. Dip shaft and certified hygrometers available and operate in temperatures up to 110°C.	130D
	WATER PURIFICATION - Distillation. Glass stills, microprocessor based controls, automated boiler drain cycle, and heat sensors. 4 L/hr or 8 L/hr models. Deionization. NANOpure system uses four resin cartridges, quick release canisters, and double tube umbilical coil for water recirculation. Capacity: + 15 liters/day, inlet water temp. 4°C- 49°C. Reverse Osmosis (RO). Easy Pure RO system is compact, flow rates of 10 L/hr, microprocessor controlled, LED indicators, and built in 6.5 liter product reservoir.	130E
	pH METER - pH & ORP Analyzers/Controllers feature automatic calibration and buffer recognition, dual control relays, and LED readout. Benchtop pH meters available with range of 0 to 14 pH. Digital hand held pH model is portable, streamlined design, and easy to read led readout. pH range is from 0.00 to 14.0 with 0.01. Field kit, including electrode, thermometer, buffer capsules, saver bottles, instrument and carrying case is available.	130F
	TIMERS - GRALAB. The standard of lab timers. Portable, switches external circuits on or off, two separate 3-wire outlet receptacles. The 545 model delivers tenth-of-a-second control, digital display, automatic reset, and two outlets.	140A
	MISCELLANEOUS LAB DEVICES - Variety of saws: diamond, slab, trim/slab, and core available. Used to cut through a variety of media: semi-precious, cennamic, core samples, and geological specimens. Lapidary and special diamond saw blades sizes available from 10cm to 9cm. Colorimeter, ultrasonic cleaners, and measurement calipers (dial and vernier) available.	150A thru 150F
	LABORATORY WARE - Laboratory ware available in 18-8 stainless steel. Thick, high grade material, deep drawn, seamless and polished. Wide variety: tanks, pails, beakers, ladles, baths scoops, funnels, and mixing bowls. Other materials available aluminum, galvanized steel, and polyethylene. Zirconium crucibles.	160A thru 160E



**LABORATORY AND PILOT SIZE
MATERIALS TESTING AND HANDLING
EQUIPMENT FOR THE PROCESS INDUSTRIES**

*www.sepor.com
Email: info@sepor.com*

**SEPOR, INC
718 N. FRIES AVE.
WILMINGTON, CALIFORNIA 90744
PHONE: 310-830-6601
FAX: 310-830-9336
800-753-6463**