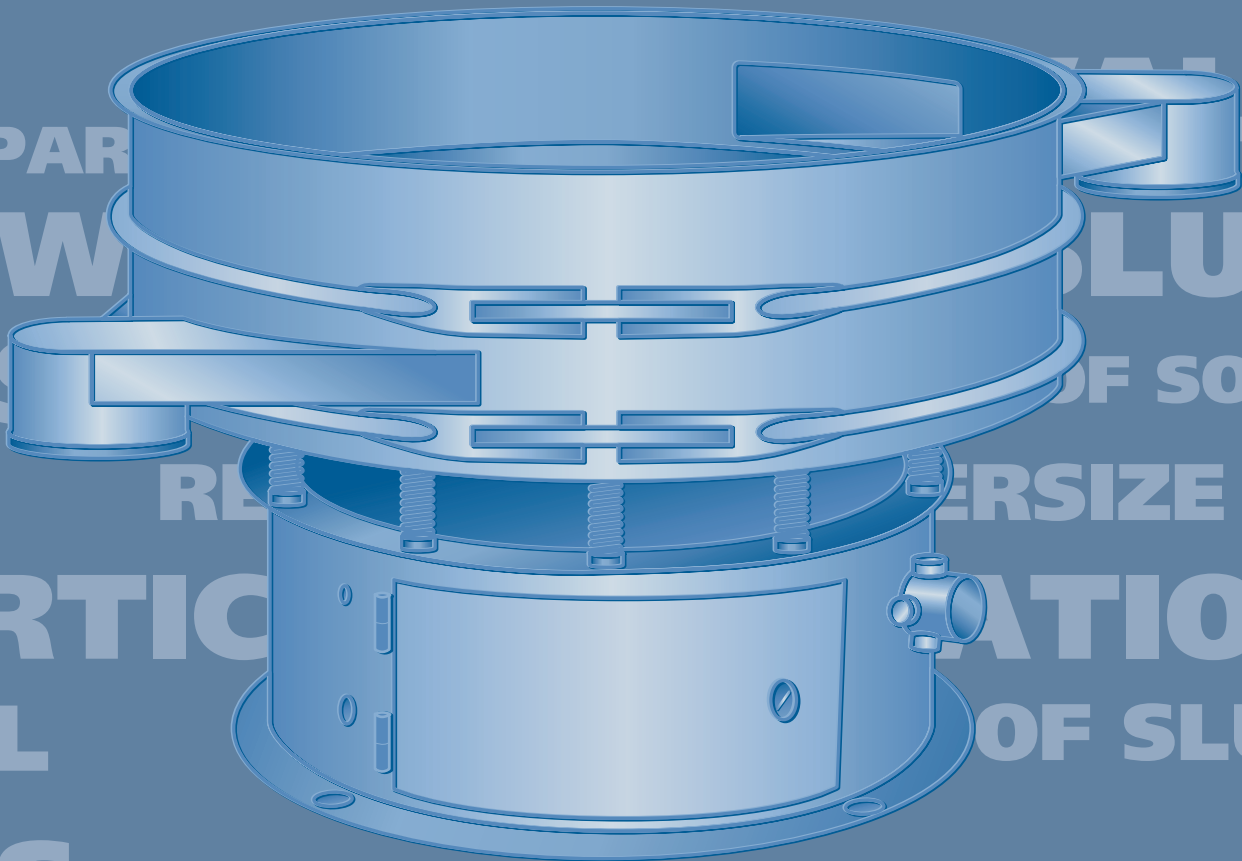




VIBRO-ENERGY[®] ROUND SEPARATORS



*Global
Leaders
in Screening
Technology*

DEWATERING OF SLURRIE

Sweco – trusted around the world

Manufacturers worldwide rely on Sweco. We span five continents with manufacturing sites, joint ventures, service offices, and sales and service representatives. So wherever you are, be assured that Sweco – the global leader in screening technology – is there when you need us.

Delivering more than machinery

When you choose Sweco, you get more than a piece of equipment. You get 60 years of technological innovation. Superior engineering. Problem solving. And with our extensive worldwide rep force, customer support is always close at hand. Whether you use our testing facilities in the United States, Belgium – or we bring our expertise onsite to your location – we can help you perfect your process to maximize output, efficiency and consistency while minimizing downtime and waste.

Sweco is recognized for our commitment to the highest quality management and environmental standards, earning various ISO registration standards in our manufacturing facilities around the world.

Through R&D, superior engineering and unparalleled customer support, you can feel confident turning to Sweco for solutions, not just machinery.



Sweco Advantages and Features

Sweco designs are highly versatile and can be customized to your requirements. With over 60 years of design experience in separators, we have developed hundreds of options and components that can be used to optimize a solution for your process. Sweco's extensive database of engineering designs allows us to "plug-and-play" with these components to develop your solution.

Widest Range of Materials Screened.

Only Sweco separators can handle such a broad range of materials... wet or dry, fine or coarse, heavy or light. Particles as fine as 400 mesh can be screened at high production rates.

Single or Multiple Separations.

As many as four screen decks can be incorporated in one Sweco Separator, providing simultaneous separation into five fractions.

Less Blinding.

Vibro-Energy action holds most screen blinding to an acceptable minimum. However, certain materials have inherent blinding characteristics. For unusual situations, Sweco has developed accessories to eliminate blinding.

Greater Capacity.

In comparative tests, Sweco Separators have shown greater capacity per square foot of screening area (from 1 to 90 sq. ft.) than other types of screening devices.

Highest Efficiency.

Our nearly infinite (patented) no-tools force wheel adjustment coupled with our computer motion analyzer system assures more efficient processing than any other screening device. Sweco's portable motion analyzer is made available to all customers through our technical audit aftermarket service program.

Longer Screen Life.

Each screen cloth is held in uniform tension by drawing it taut on tension rings. The drum-tight screening surface vibrates freely without whipping against rigid supports, greatly reducing screen wear and increasing screen life.

Minimal Transmitted Vibration.

No special flooring or foundation is generally required. The unit may be placed (and easily moved) wherever it is needed. Many users mount their Sweco units on casters, on top of bins, on open grids, on wood, on upper floors, or on light structures not designed for rectangular vibratory screening equipment.

Less Space Required.

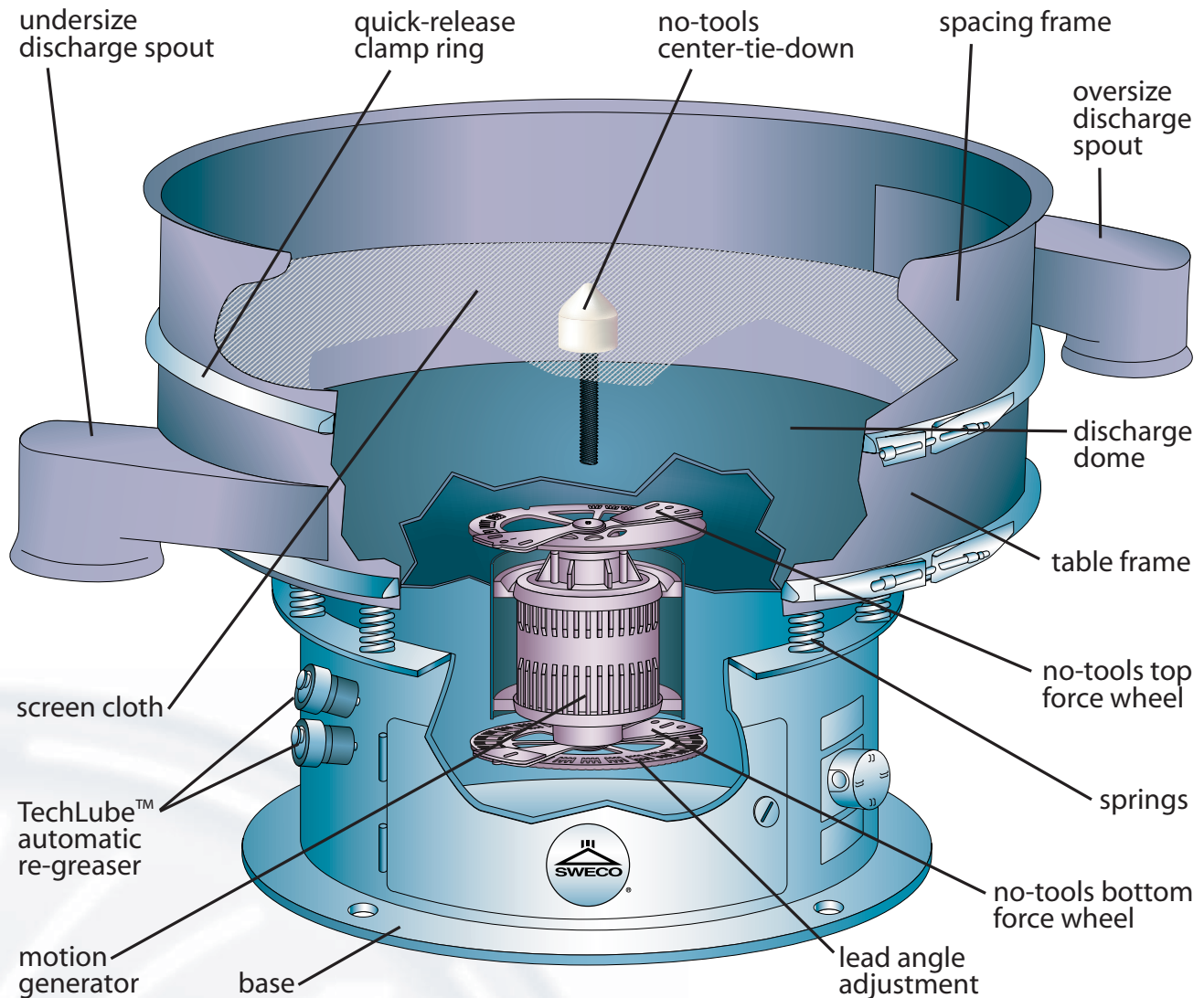
For equivalent capacity, Sweco Avalanche Separators require less working floor space than other screening systems. Compact Sweco Low Profile units normally fit right into existing production lines.

Economy—Long Life, Less Power, Low Maintenance.

Simplicity of design with few moving parts assures long life with little maintenance. Because of efficient design, Sweco Separators require less horsepower than other units of similar capacity. Remarkably long screen life and the ease with which screens may be changed result in further economies.



Vibro-Energy® Separators - Interior View

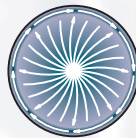


How Sweco® Vibro-Energy® Separators Work

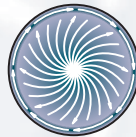
Basically, the Sweco Separator is a screening device that vibrates about its center of mass. Vibration is accomplished by eccentric weights on the upper and lower ends of the motion-generator shaft. Rotation of the top weight creates vibration in the horizontal plane, which causes material to move across the screen cloth to the periphery. The lower weight acts to tilt the machine, causing vibration in the vertical and tangential planes. Speed and spiral pattern of material travel over the screen cloth can be set by the operator for maximum throughput and screening efficiency of any screenable product... wet or dry... heavy or light... coarse or fine... hot or cold.



0 Lead – Material is thrown straight and gives insufficient separation



15 Lead – Material begins to spiral



35 Lead – Gives material maximum efficient screening pattern

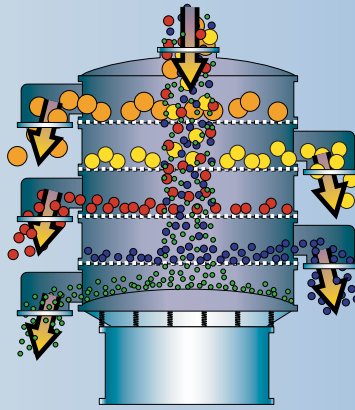


90 Lead – Keeps oversize material from being discharged and assists in receiving maximum throughput of minus material which tends to “ball”

Separation Processes

Sizing

Segregation of a variety of solid particles into separate groups containing comparable sizes. Up to 5 separations simultaneously.

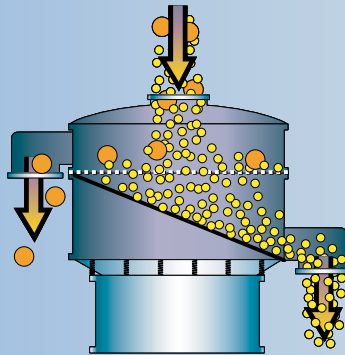


Dry Products

Sugar - spices - starch - soybeans - sawdust - salt - instant potatoes - animal feed - sand - abrasives - grit/shot-glass beads - detergents - rubber - polystyrene beads - paint - iron oxide - lead - tungsten carbide - ceramic and metallic powders - milling products - powdered pharmaceuticals - chemical and food products

Scalping

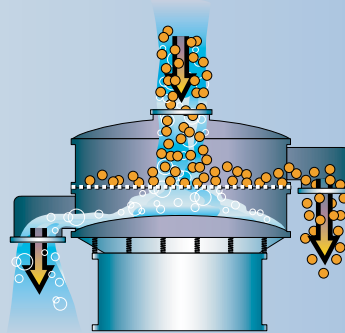
Removal of a small quantity of undesirable oversize particles in a high-throughput process.



Dry Material

Powdered milk - cereals and grains - sugar - instant coffee granules - chocolate powder - soybean flour - broth concentrate - potato granules - borax - abrasives - carbon black - metal powders - sand - paint - casein - plaster - detergents - fertilizer - tobacco - bone, blood and feather meal

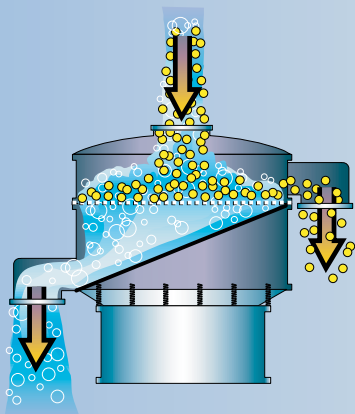
Gravity Filtering / Product Recovery Filtering oversize solids from all types of slurries, or dewatering solid/liquid mixtures. Reclaiming usable solids or clarifying liquids, either of which has further economic value.



Solid/Liquid Mixtures

Fruit juices - fish - soybean oil - brewer's yeast - sugar beets - other food products - latex - paint - catalyst - pulp and paper - carpets - animal blood - tallow - ceramic - kaolin - metallurgy - pharmaceuticals - ice cream

Wastewater Clean-Up and Water Pollution Control Efficient recovery of usable solids, and water clean-up and re-use.



Effluent Streams

Potato peelings and waste - fruits - other food products - latex and other chemical products - manure - sewage - fruit - vegetable and pickle canneries - meat - poultry and seafood processors - brewery waste - laundry waste - pulp and paper effluent

Vibro-Energy® Separators for all your screening needs

PharmASep™ Filter/Dryer

A fully contained Vibro-Energy filter/dryer suitable for aseptic processes in the pharmaceutical, food and specialty chemicals industries. With a design that eliminates gaps, crevices and hidden areas, the PharmASep proves valuable to those processes handling potent or toxic substances. In the case of wet sieving, the PharmASep can dewater and vacuum dry the product on the screen eliminating additional handling and equipment. CIP/SIP capability is available for all PharmASep filter/dryers.

Sono-Energy™ System

The Sono-Energy creates a secondary ultrasonic vibration that prevents blinding on fine meshes (60-635 mesh) as well as improving flow rates on hard-to-screen products at fine meshes. Numerous applications exist for epoxy powders, powder paints and toner powders. Sono-Energy also works well on heavy density powdered metals including lead, nickel and chromium by preventing lodging of near-size particles.

Sanitary Separator

The Sweco Sanitary Separator meets all requirements of 3A sanitary standards and FDA requirements for food processing applications. Constructed of 304 stainless steel and polished to a #4 finish, the sanitary separator is designed to prevent product build-up and contamination.

Low Profile

High capacity, wet or dry scalping in a compact, low headroom design. Dual motors mounted on opposite sides of the Low Profile allow unrestricted flow of material and create the 3-D motion that allows discharge of oversize material, keeping the screen clear for maximum product flow. Its low headroom requirement (as little as 15 inches) and straight flow design allow the Low Profile to fit easily into existing product lines.

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Download a PDF of any Sweco product brochure. Just log on to www.sweco.com and click on TECH Library



PSI™ Sifter

The Pneumatic Sweco In-line (PSI) Sifter is used to sift dry flowing material in a pressurized pneumatic conveying line. It can be used to segregate smaller particles from larger and to remove foreign matter. Typical applications include flour, starch, salt, sugar and plastics.

Accu-Feed™ System

Sweco's Accu-Feed System combines the three functions of storage, feeding and screening of dry materials into one complete unit. The result is a substantial increase in productivity and significant savings in capital, space and energy. With its conical storage bin and adjustable feed controller, the Accu-Feed eliminates the need for stand-alone feed hoppers, hopper evacuators and feeders.

Avalanche™

The dual screen design of the Avalanche separator effectively increases active screen area by up to 67%. The design is simple: a standard diameter frame is modified to accommodate a standard screen on the bottom with an additional, slightly smaller screen above. Material fed to the top screen either passes through the screen or discharges off the sides to be rescreened by the lower screen. The Avalanche is particularly beneficial in dry applications requiring high capacity scalping (PVC, starch, flour) as well as high efficiency dedusting (EPS beads, dry chemicals).

Vibro-Energy® Separators

Separate solids from liquids or segregate dry materials into various sizes. Particles as fine as 400 mesh (38 microns) can be screened with up to 4 screen decks incorporated in one Sweco Separator. No special flooring or foundation is needed unless working floor space is required. Simple and efficient design requires less horsepower. No one has more experience creating round separation solutions ... we've been 'round for more than 60 years!

QuickChange™ NV Separator

The patented QuickChange NV reduces screen changing to a one-person operation, greatly reducing the necessary labor and eliminating the need to involve maintenance crews. Powered by a self-contained hydraulic unit, screen changes can be made quickly, significantly reducing downtime and greatly increasing productivity.

Authentic Sweco Aftermarket Products

Superior Screening Solutions

From spot welded screens to our patented Supertaut® Plus screens, Sweco offers the industry's widest variety of screen solutions to meet any separation challenge. In addition to our round screen offerings, Sweco also manufactures Rectangular and White Water Filter screens. And for unique screening applications, Sweco custom manufactures screens to meet any requirements. Sweco offers a full line of Market Grade, Tensile Bolting Cloth, Clear Opening and U.S. Standard Sieve Cloths. Our specialty screen products include Sanitary, 3A Sanitary, UltraSonic, Parallel Flow and 430 Magnetic offerings. Like our separation equipment, Sweco screens are made with a commitment to superior manufacturing and quality. Whatever your screening needs are, Sweco has your solution.



my.sweco.com

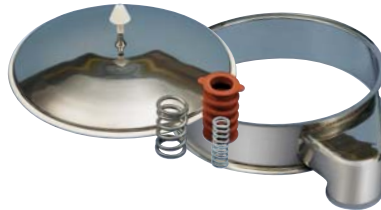
You can now purchase all your aftermarket products online!

Login to register or contact Sweco at +1 (800) 80 SWECO



Motion Generators™

Sweco Motion Generators have extra-strong, high tensile strength castings which provide rugged vertical mounting support for severe vibration service. Their larger, tougher Sweco engineered bearings provide higher dynamic load capabilities for longer Motion Generator life. Sweco offers TENV, TECP and Hostile Duty Motion Generators. In addition, we offer the Sweco REPAIR PLUS program, backed by a guarantee on all repairs and rebuilds.



Authentic Sweco Aftermarket Covers, Springs, Spout Connectors, Frames... All of Sweco's genuine Aftermarket parts are built to the same exacting standards as our original equipment and most products can be modified to custom-fit your application. We offer a wide variety of customization options including hand polishing, frame linings and special fittings. And Sweco authentic Aftermarket products are so dependable ... they're guaranteed.



Smart-Lock™ Force Wheels

Sweco's patented all-metal weight adjustment mechanism can be used at up to 400 degrees Fahrenheit. The "No Tools" Force Wheels allow you to adjust the amplitude and screening pattern of your separator without the use of tools. We have also incorporated a positive locking tab to prevent slippage of the weight plates. Simple, ergonomic design and easy-to-read settings make this weight system user friendly. Force Wheels are available for 24"-72" separators.



Self Cleaning Kits

Sweco's Self Cleaning Kits aid in screen cleaning for increased screening efficiency. By reducing the amount of near-size particles lodged in the openings of the wire mesh (blinding), the Self Cleaning Kit improves dry sizing and liquid/solid separation.



We offer screens that meet specifications from these and other industry organizations.



Rubber Goods

To accommodate your different applications, Sweco offers a variety of rubber goods. Sweco gaskets are available in several profiles and a wide array of materials. Our flexible spout connectors are available in durable and abrasion-resistant elastomers, many of which are FDA approved for contact with food products. Whatever your application calls for, Sweco has a product to fit your needs.



No-Tools Center Tie Downs

Take the hassle out of changing screens with Sweco's patented "No-Tools" Center Tie Down. This option allows you to change a screen in a fraction of the time and gives you the ability to tension the screen from the top. Center Tie Downs work with or without Sweco's Self Cleaning Kit option. They are suited to 220 degrees Fahrenheit and are constructed of Food Grade Nylon.



TechLube™

Eliminate manual regreasing with the Sweco TechLube – an automatic grease relubricator. The TechLube is an economic solution to attaining proper grease relubrication. Made to adapt directly to existing Sweco Motion Generators, TechLube provides the right grease at the right time in just the right amount. Custom packed with Sweco premium grease, TechLube is the smart choice for your Motion Generator.

Authentic Sweco Instrumentation



SentryScan™ Performance Monitoring System

Using patented microwave technology, Sweco SentryScan continuously monitors separator screens for breaks, holes or tears in the wire mesh. Early detection by SentryScan makes possible timely corrective action that can help prevent production of off-spec product, contamination of downstream equipment, costly material reprocessing or even product recalls.

Motion Analysis System

Fine tune your separator motion to increase capacity, increase efficiency and reduce blinding. Sweco's Motion Analysis System perfects the motion of your Sweco Separator – and lets you apply it to every machine in the plant. Reproduce that optimum motion at other plant locations, too. Use our integrated instrumentation package to turn your Windows PC or laptop into an easy-to-use, multi-axis dynamic motion analyzer. Or, call one of our field techs to visit your plant for full diagnostic and optimization service on all your Sweco Separators.

Vibration Sensor

Stop unexpected – and undetected – separator shutdowns and prevent costly reprocessing. Sweco's Vibration Sensor constantly monitors the motion of your Sweco Separator and triggers an alarm if it stops functioning due to motion generator failure. In some cases, it can alert you of feed rate upsets, erratic product discharge, broken springs or loose anchor bolts and clamp bands. Add the Vibration Sensor's Display Unit for local digital readout of separator G-force. Operators can program two alarm set points, each with a relay contact output.

Bearing Temperature Sensor

Significant increases in bearing temperature can indicate impending failure. Sweco's Bearing Temperature Sensor enables operators to continually monitor the upper bearing temperature in Sweco motion generators – preventing unexpected failures, material backups, downtime and emergency maintenance.

Your Process Solutions Provider for Screening, Separating and Grinding Equipment



Rectangular Separators.
New technology adapts ultra-fine screen mesh for use in rectangular high-capacity separators (up to 48 ft² per deck), yielding benefits previously found only on small circular screens. Fine-mesh screen panels can be installed in five minutes without tools. Once in place, an O-ring system creates a positive seal against bypass.



Sta-Sieve® Stationary Screening Devices.
Provides quick and efficient separation of solids from liquid. Ideally suited for processors that use large quantities of water. Advantages of this low-cost unit include high flow rate, long screen life and no moving parts. Can be operated independently or as a system component in conjunction with Sweco Separators or Centrifugal Screen Concentrators.



White Water Filters.
Provides high liquid flow rate (up to 4000 gpm) fine mesh centrifugal screening to remove particles larger than screen mesh. Most commonly used for White Water screening in the paper industry, it can also handle other effluent and recycle streams. Units available to remove suspended solids down to 325 mesh (44 microns).



Turbo-Screen® Air Classifiers.
Provides continuous, precise screening of dry materials, especially in the finer particle sizes. Uses screen sizes from 20-400 mesh for efficient separation of particles ranging from 850-38 microns. Handles the most difficult materials, including electrostatic materials and particles that tend to agglomerate easily.



Centrifugal Sifter.
The new Centrifugal Modular design creates a unique centrifugal force by the rotation of beater bars, which propel material through the full-length cylindrical pre-screen and screen surface. The full-length discharge chute collects screened product, while oversize materials are removed through the forward discharge chute. The CM, designed for processes where hygiene is critical, contains a patented Air Tension System which enables the unit to use fine mesh screens.



Grinding Mills.
Most versatile line of mills available today for fast, low-cost particle size reduction to sub-micron range. Vibro-Energy® grinding action achieves higher output per input horsepower; precise control of size and size distribution. Product contamination from media and lining wear is virtually eliminated.

Industrial Treatment Services

Services to supply fluid processing equipment and waste management services to a variety of industries. Services include the sales and rental of equipment, one-time and ongoing cleanup services, and design and manufacture of complete turnkey systems for handling of waste streams.



GyraMax™ Rectangular Separators.
Another separation solution to further optimize your facilities' production, the GyraMax Gyratory Sifter maximizes productivity, creates a uniform sifting motion across an entire screen deck to maximize efficiency, and enables maximum recovery of clean, acceptable product.



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