

Recycling Equipment



bps best
process
solutions, inc.

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Your Best Source for Recycling Equipment

Best Process Solutions, Inc., is a sales, engineering and manufacturing company that was founded to fill a void that exists in the areas of recycling and bulk material handling. BPS was founded as a family-owned business. With our strong family values, we are dedicated to providing our customers with the highest quality products and services.

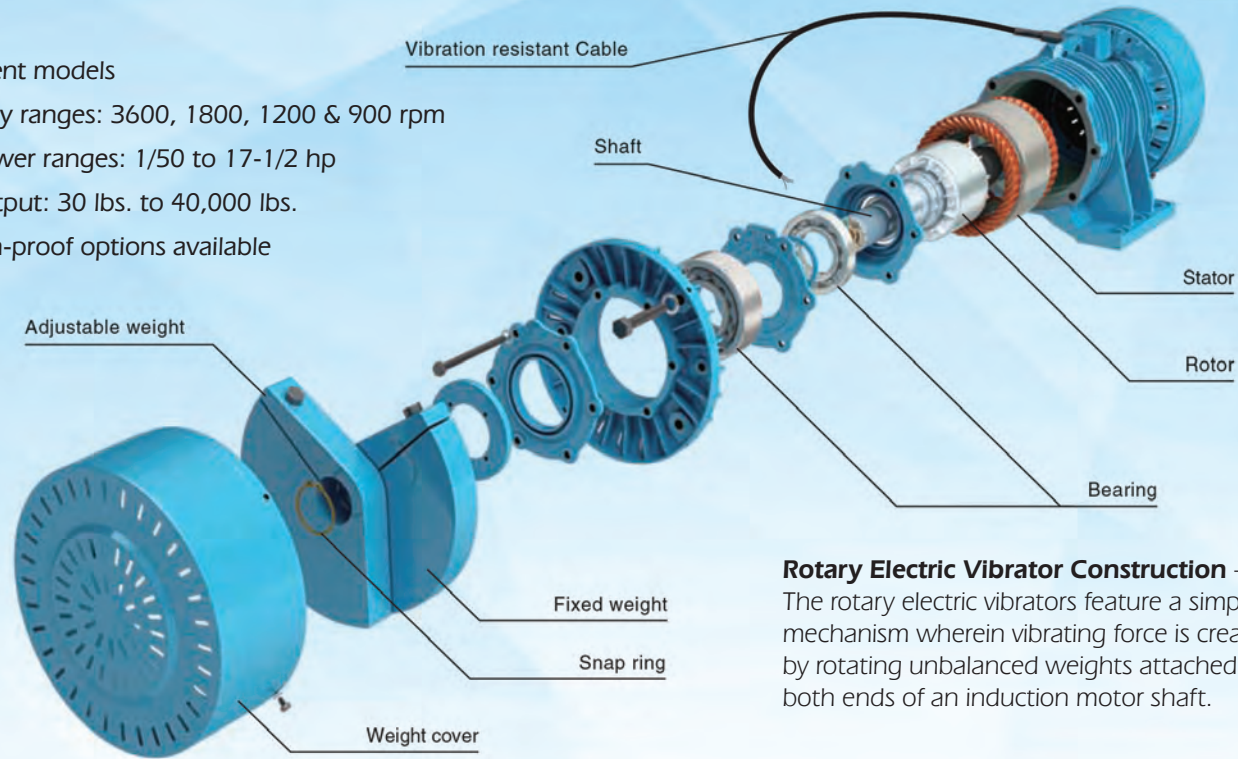
With over 100 years of combined experience, BPS is committed to develop and implement the most advanced technologies in the areas of recycling and bulk material handling. We have partnered

with some of the most advanced technological companies in the world to provide the best solutions for our customers' requirements. BPS understands that every application is unique, which is why we work with our customers to provide a custom-engineered solution for each process.

We are grateful for the continued loyalty and support of our customers, sales representatives and vendors. We look forward to continually working together to strengthen old relationships and cultivate new ones.



- 53 different models
- Frequency ranges: 3600, 1800, 1200 & 900 rpm
- Horsepower ranges: 1/50 to 17-1/2 hp
- Force output: 30 lbs. to 40,000 lbs.
- Explosion-proof options available



Rotary Electric Vibrator Construction –
 The rotary electric vibrators feature a simple mechanism wherein vibrating force is created by rotating unbalanced weights attached to both ends of an induction motor shaft.

BPS provides a full line of replacement wear parts for your vibratory equipment. Our product lineup includes replacement coil isolation springs, rubber marshmallow springs, replacement liners, replacement motors and hardware.



Vibrator — Two Poles



Vibrator Speed
 3000 RPM @ 50 HZ
 3600 RPM @ 60 HZ

Vibrator — Six Poles



Vibrator Speed
 1000 RPM @ 50 HZ
 1200 RPM @ 60 HZ

Vibrator — Four Poles



Vibrator Speed
 1500 RPM @ 50 HZ
 1800 RPM @ 60 HZ

Vibrator — Eight Poles



Vibrator Speed
 750 RPM @ 50 HZ
 900 RPM @ 60 HZ





BPS custom engineers platforms and structures based on our customers' needs.



BPS custom-fabricated airlocks work beneath your cyclone dust collector to maintain operating air pressure.



BPS shredder isolation mounts are designed to reduce vibration and shock from impact loading. These heavy-duty units are located between the main shredder assembly and the concrete support foundation.



Our belt conveyors are precision-engineered to your exacting requirements.

Double Deck Finger Screener



Single Deck Finger Screener



Screeners

BPS model CSL vibratory screeners are highly effective for applications requiring material separation. Powering these screeners are two rotating vibratory motors designed to give a linear and straight-line type conveyance action. The unit propels the product forward with a positive conveyance action designed to offer better stratification than typical sloped gravity or orbital type screeners.

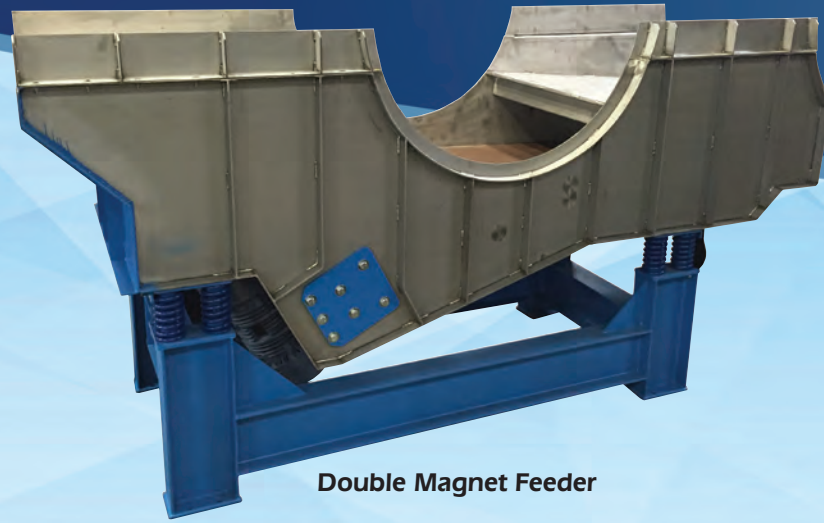
We offer several screen options to meet your process requirements. Our screen options are wire mesh, finger screen deck, perforated plate, grizzly deck and wedge wire. BPS will custom engineer a screener for your unique application. Whether you require dust tight covers, stainless steel construction or multiple decks, BPS is here to help.

Screener with Side Mount Drives



Screener with Above Mounted Motors





Double Magnet Feeder

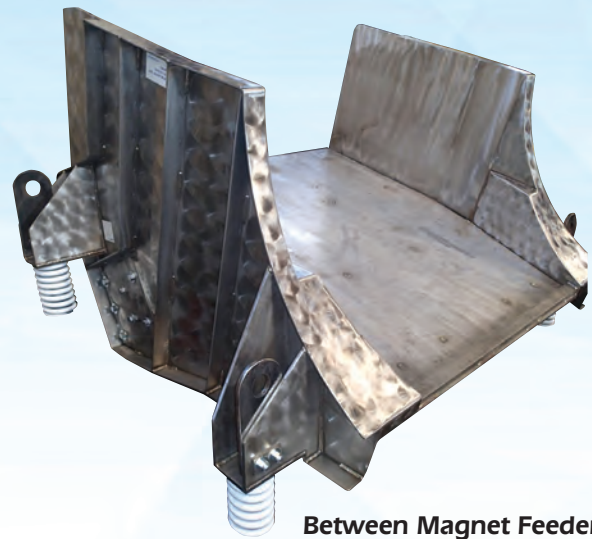
Vibratory Feeders

BPS model CFL vibratory feeders are highly effective for applications requiring material conveyance. Our vibratory feeder comes equipped with two rotary electric motors. The two motors are designed to counter-rotate, which provide a linear, straight-line vibration. This horizontal motion applied to the feed trough induces material flow. With the motors properly bolted and suspended on isolation springs, the material is quietly and positively conveyed at a design rate of approximately 30 FPM. The optional Inertial Isolation System™ is designed to eliminate the transfer of vibratory energy to support structures and buildings.

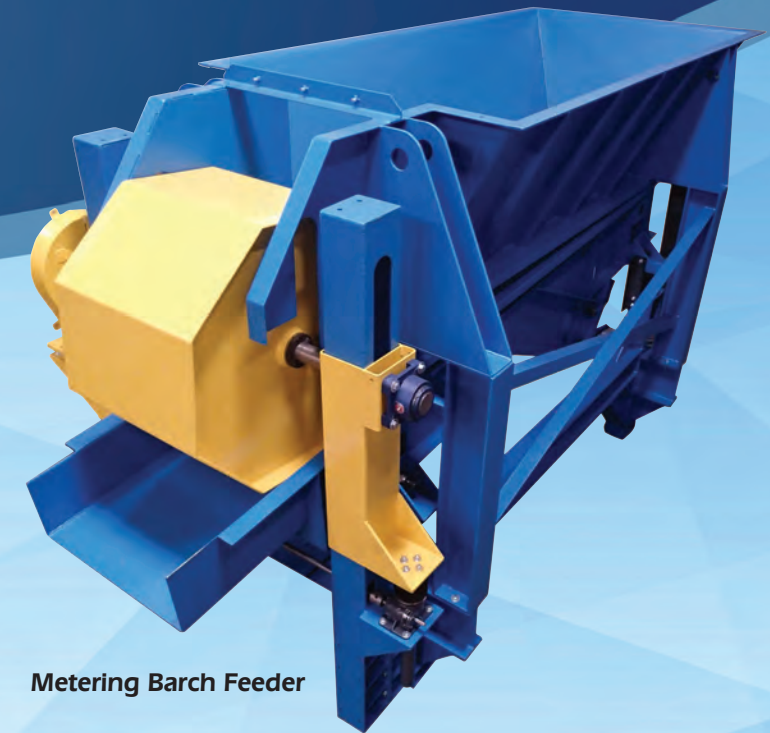
There are essentially two methods for varying the product flow rate. The first method requires no additional electrical device or flow aid and is accomplished locally at the electric motor location. The motors house eccentric weights at opposite ends of each vibrator. Altering these mechanical weights changes the vibration amplitude. Higher eccentric weight settings produce greater product flow rates. Typically, the eccentric weights are factory set at 100% prior to shipment.

The second method for varying the product flow rate involves the incorporation of an AC variable speed controller. The variable speed drive controls the frequency of vibration applied to the vibratory feeder. Theoretically, higher frequencies produce greater product flow rates. Furthermore, including this inverter can provide time and cost savings because the VFD enables flow rate changes without having to alter the eccentric weights on the motor. Housed in a NEMA 12 enclosure, the unit also features dynamic braking, which causes the feeder to stop quickly after power is disengaged.

BPS is one of the leading suppliers of vibratory equipment in the recycling industry with many standard models, or our vibratory feeders can be custom engineered for your unique application.



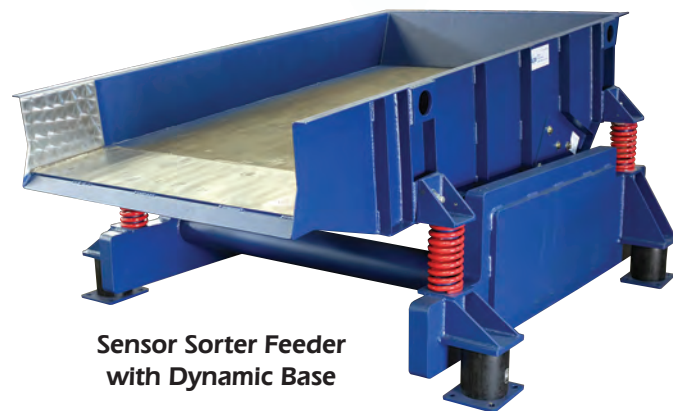
Between Magnet Feeder



Metering Barch Feeder



Undermill Feeder



Sensor Sorter Feeder with Dynamic Base



Tube Feeder



Hopper Feeder



Eddy Current Feeders with Dynamic Bases



Container Loading System

The BPS Container Loading System is engineered to load 20-ft. and 40-ft. shipping containers quickly and efficiently for the export of ferrous and nonferrous metals. The three major components of this system are the Vibratory Hopper Feeder, Loading Belt Conveyor and System Controls.

The robust surge hopper is constructed of 1/2" plate and has a holding capacity of approximately 15 cubic yards. The hopper includes a manually adjustable product flow control gate for the operator to control the product feed rate. The hopper and vibratory feeder share a common support base.

The heavy-duty cantilevered belt conveyor is

engineered with a belt speed of 500-1000 FPM to allow for more material to stack up in the container.

The loading operation is simple. A truck backs up to the conveyor allowing the conveyor to go inside the container. Then the operator starts the vibratory feeder and conveyor. As the container is loading, the truck driver slowly pulls forward, allowing the container to be loaded.

Our container loading system comes complete with system controls. The control package includes a VFD for both the vibratory feeder and the belt conveyor mounted in a NEMA 12/4 UL/cUL listed enclosure with all necessary operator functions.

Load cells or a belt scale can be included as an option.



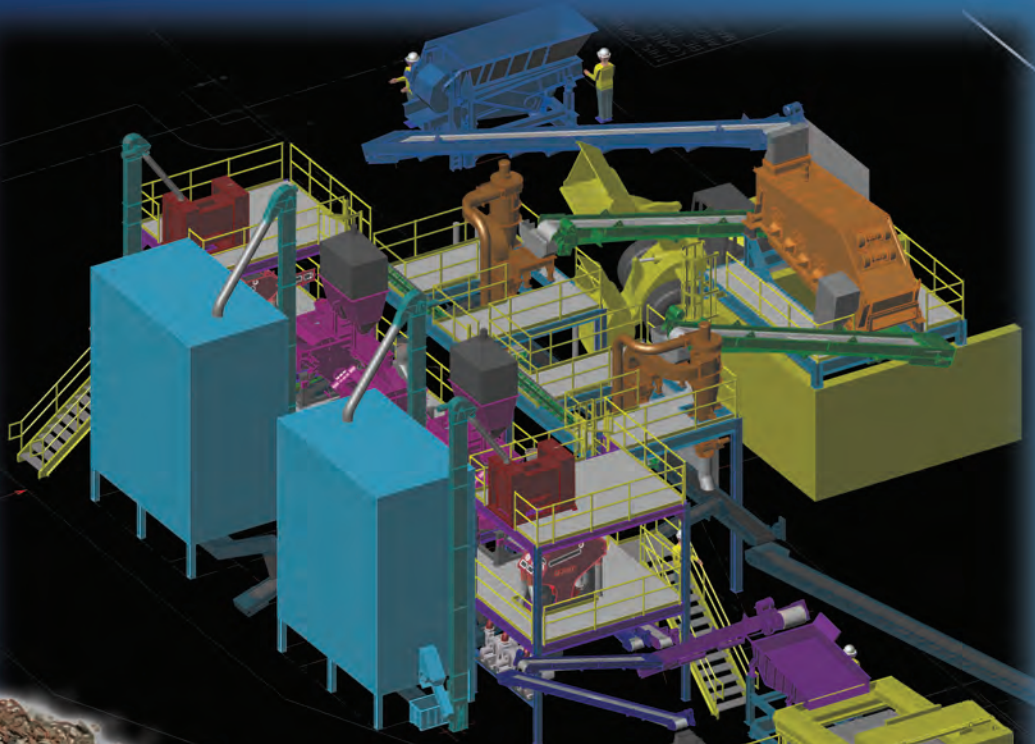
Process Control Systems

BPS takes great pride in engineering and building control systems to the highest industry standards. Our Electrical Engineering & Panel-Building department is a UL/CUL Certified manufacturer; this means that all control systems manufactured in our facilities will meet or exceed all standards set forth by the industry today.

No system can be successful if the control software is not properly designed and implemented. This is what separates our corporation from our competition. Our software engineers have designed and programmed control and monitoring systems specified by Fortune 500 companies and the U.S Department of Energy. Our systems are designed to utilize the most advanced networking technologies available from major control manufacturers such as Rockwell Automation Siemens, Modicon and Mitsubishi. Utilizing these networking and control technologies allows BPS control systems to be installed and implemented in shorter periods, thus reducing installation costs.



Patent Pending RecoverMax Fines Process



0-3 mm
Copper & Precious Metals



3-6 mm
High Copper Zorba



6 mm Plus
High Copper Zorba

Introducing the new RecoverMax Fines Process, which effectively recovers any piece of metal greater than 1 mm. The heart of the system is the worldwide patent-pending RecoverMax Separator, which separates any piece of metal from glass and rock at a

purity of over 98%. Once the metals are recovered, the system then completes the final step to separate the High Copper Zorba into a 90 plus copper and precious metals to be sold as a refinery-grade product. Call to schedule a test.