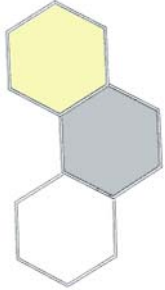
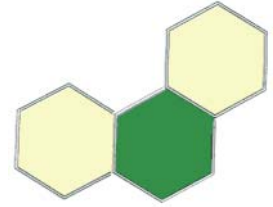
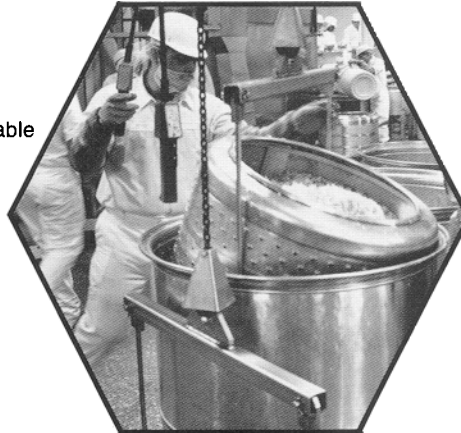


CENTRIFUGAL SEPARATORS

General Applications Bulletin



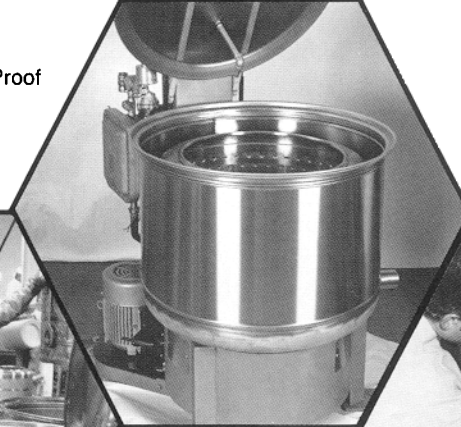
**FOOD
PROCESSING**
USDA Units Available



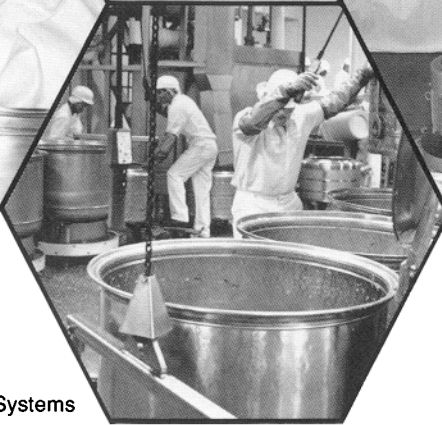
**CHEMICAL
PROCESSING**
Standard or Explosion Proof
Designs



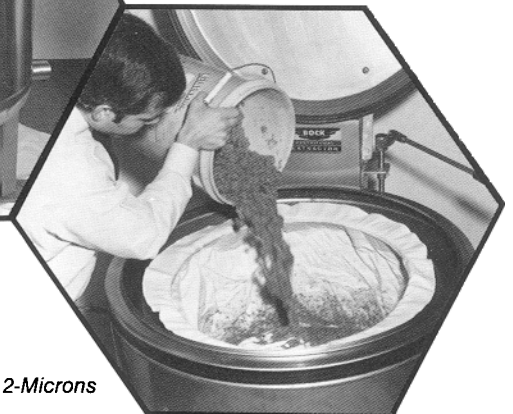
**PILOT
PLANT
UNITS**
Semi-Portable
Designs



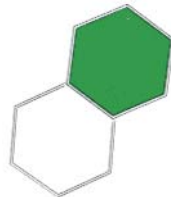
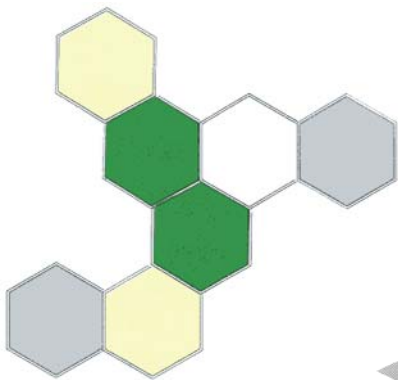
**SLUDGE
DRYING**
Safe & Simple Systems



**FINE
PARTICULATE
SEPARATION**
Filtration Rates to 2-Microns



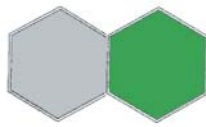
**SOLVENT
SEPARATION/
REMOVAL**
Handles
Flammables
& Toxics



BOCK ENGINEERED PRODUCTS, INC.
3600 Summit Street • Toledo, Ohio 43611 USA
Phone (419) 726-2645 • Fax (419) 726-8583



Centrifugal Separation....

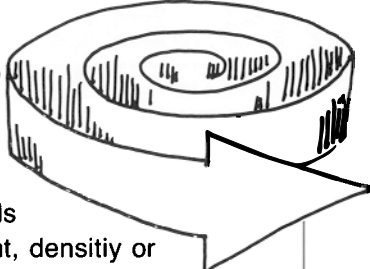


Concepts & Methods

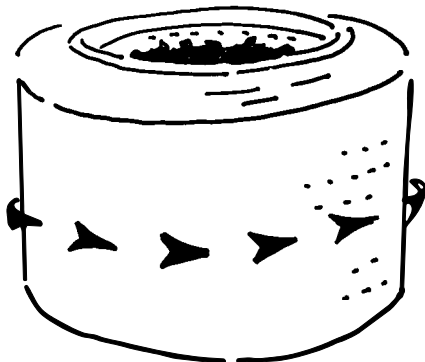
CONCEPT —

Centrifugal Force

The physics of centrifugal force make it easy to separate materials of different weight, density or gravity. The speed of basket, or any circular vessel, is strongly amplified at the edge of the rotating vessel. This force at the edge is a function of how fast the entire vessel spins, and the width of the vessel. The wider the vessel is, the greater the centrifugal force becomes at the same speed.



BEP centrifuges are manufactured with a self-balancing, perforate-walled basket. Unlike other machines which rely on external shock absorption paraphenalia, BEP centrifuge baskets are counterweighted at the bottom to create a flywheel effect during operation. Like a gyroscope, BEP baskets quickly achieve a state of self-equilibrium as they come up to operating speed. The result...smooth and rapid separation of just about any liquid/solid combination. The solids are retained in the centrifuge basket. The liquid is squeezed out, and drained through the bottom of the outer containment shell. Like other centrifuges, our standard systems are operated on a vertical axis. Only our semi-automatic system, The Tornado, is designed to operate on a horizontal axis.



Product Handling Methods

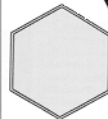
Automatic....

The new Tornado™ system is a revolutionary new design, which can process your materials on a non-stop basis. The heart of the system is a set of processing conveyors which take materials in at a pre-determined time interval, come up to speed on a horizontal axis, and then slow down to discharge your product when your processing objective has been achieved. Operated by a programmable controller, the Tornado™ is available in two versions, capable of processing up to 6,000 lbs/hr of materials, with NO MANUAL LABOR.

Single Load...

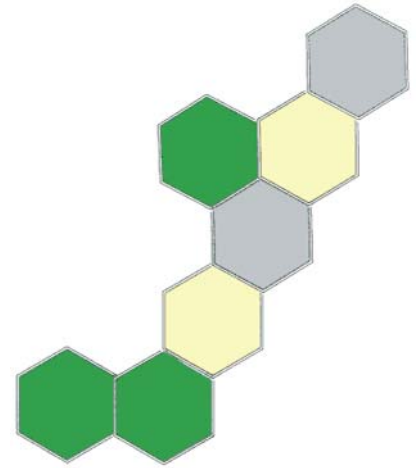
LIQUID/SOLID COMBINATIONS—

...most BEP systems are designed to process product on a single-load basis. Loading, processing, and unloading can usually be accomplished in less than 5 minutes. This time frame depends, of course, on your processing goals. For dewatering relatively dense items, such as "O" rings or small fasteners, it can be possible to achieve your objective in less than 60 seconds.



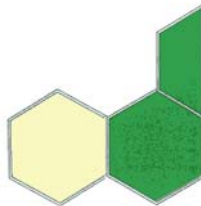
LIQUID-BASED COMBINATIONS—

...slurries or other liquid-borne mixtures can be piped into the centrifuge while in operation. Processing flow rates up to 12-gallons per minute, depending upon filtration objectives, your BEP centrifuge can be run until sediment reaches the weight capacity of the model in use.



Model Types

- *Explosion Proof*
- *USDA*
- *Standard*



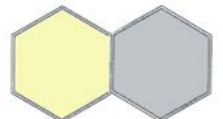
Our single load systems are available in configurations which permit operation under a variety of conditions.

EXPLOSION PROOF—

designed to allow for the handling of flammable solvents or materials. All metal-to-metal surfaces are made of stainless steel. All control devices and circuits are rated for explosion-proof service. Most control mechanisms are pneumatically operated. Available only on single-load systems.

USDA—

designed to meet USDA standards for processing food products. All seams, welds, and fillets filled with weld, and ground smooth. Available on any system.



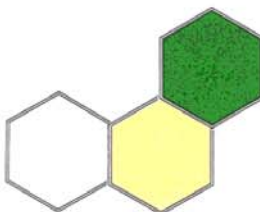
Specifications & Features Single Load Systems

MODEL	BASKET WIDTH/DEPTH	RPM/G-FORCE	VOLUME (CF)	INTERNAL/EXT SURFACES	DRY WT CAPACITY (LBS)
1200PL	30 x 18	1200/650	7.36	SS 316 / 304	130
1100PL	30 x 16	1700/1200	6.54	SS 316 / 304	100
900PL	24 x 14	1700/980	5.73	SS 316 / 304	60
800PL	20 x 12	1700/700	2.18	SS 316 / 304	35
955	30 x 18	1200/650	7.36	SS 304 / 304	130
755	30 x 16	1700/1200	6.54	SS 304 / 304	100
655	24 x 14	1700/980	5.73	SS 304 / 304	60
355	20 x 12	1700/700	2.18	SS 304 / 304	35
GP130	30 x 18	1700/1200	6.54	SS 304 / MS	130
GP100	30 x 16	1700/1200	6.54	SS 304 / MS	100
GP60	24 x 14	1700/980	5.73	SS 304 / MS	60
GP35	20 x 12	1700/700	2.18	SS 304 / MS	35
FP90	30 x 18	1200/650	7.36	SS 304 / 304	130
FP805	30 x 16	1700/1200	6.54	SS 304 / 304	100
FP605	24 x 14	1700/980	5.73	SS 304 / 304	60
FP305	20 x 12	1700/700	2.18	SS 304 / 304	35
805TX	30 x 16	1700/1200	6.54	SS 304 / 304	100
605TX	24 x 14	1700/980	5.73	SS 304 / 304	60
305TX	20 x 12	1700/700	2.18	SS 304 / 304	35



TORNADO SPECIFICATIONS		
MODEL	MK1	MK2
Capacity	*4000 lbs/hr	*6000 lbs/hr
Cycle Time	155 seconds	155 seconds
Voltage	480/60/3	480/60/3
Motor HP	40 HP	60 HP
Net Weight	5000 lbs	6000 lbs
Shipping Wt.	7500 lbs	8500 lbs
Max Ht.	96 inches	96 inches
Max Width	96 inches	96 inches
Max Depth	144 inches	144 inches
RPM	750 RPM	750 RPM
Cylinder Diameter	27 inches	27 inches

*Based on Bulk Density of 20 lb/cf



Product Selector Guide

APPLICATION	SERIES SELECTOR
General Laboratory "TX" series
Food Processing "FP" series
General Purpose "GP" series
Explosion Proof "55" series
Pilot Plant "PL" series
Portable Applications any series
Automatic Product Handling "Tornado" Mk1 or Mk2



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