



**GlobePharma**  
Innovating the Industry Standard.

**Solid Dosage  
Form Equipment  
Since 1993**

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**SEGREGATION TESTER**



# About Us

**GlobePharma, Inc.** is a leading provider of innovative equipment and quality-assurance solutions for the pharmaceutical, nutraceutical, academic, compounding pharmacy and cannabis industries. Founded with a mission for the development and production of high-quality products, beginning with the unit-dose powder sampler, we are known for innovative and reliable equipment.

With a strong emphasis on R&D, we continuously enhance product offerings to keep pace with the evolving needs of the industry. From the **MaxiBlend**<sup>®</sup> and **SimpleBlend**<sup>®</sup> blender lines, to processing equipment of **Mills, Granulators** and the **VersaPress**<sup>®</sup> tablet press, to the new **DYNASEG**<sup>™</sup> Powder Segregation Tester (Patent Pending) and **SIFT-N-BLEND** (Patented) for simultaneous sifting and blending, and other innovative products to be introduced in the coming year.

**GlobePharma's** equipment is trusted by companies worldwide to ensure efficient and safe operations. Our solutions are designed to improve productivity and uphold compliance with industry standards. In addition to cutting-edge equipment, we offer exceptional customer support and technical expertise. We collaborate with clients to understand their unique requirements, delivering customized solutions that drive operational success.

By focusing on both innovation and customer satisfaction, **GlobePharma** has built a reputation as a trusted partner in the pharmaceutical industry, committed to advancing quality and efficiency across all its sectors.

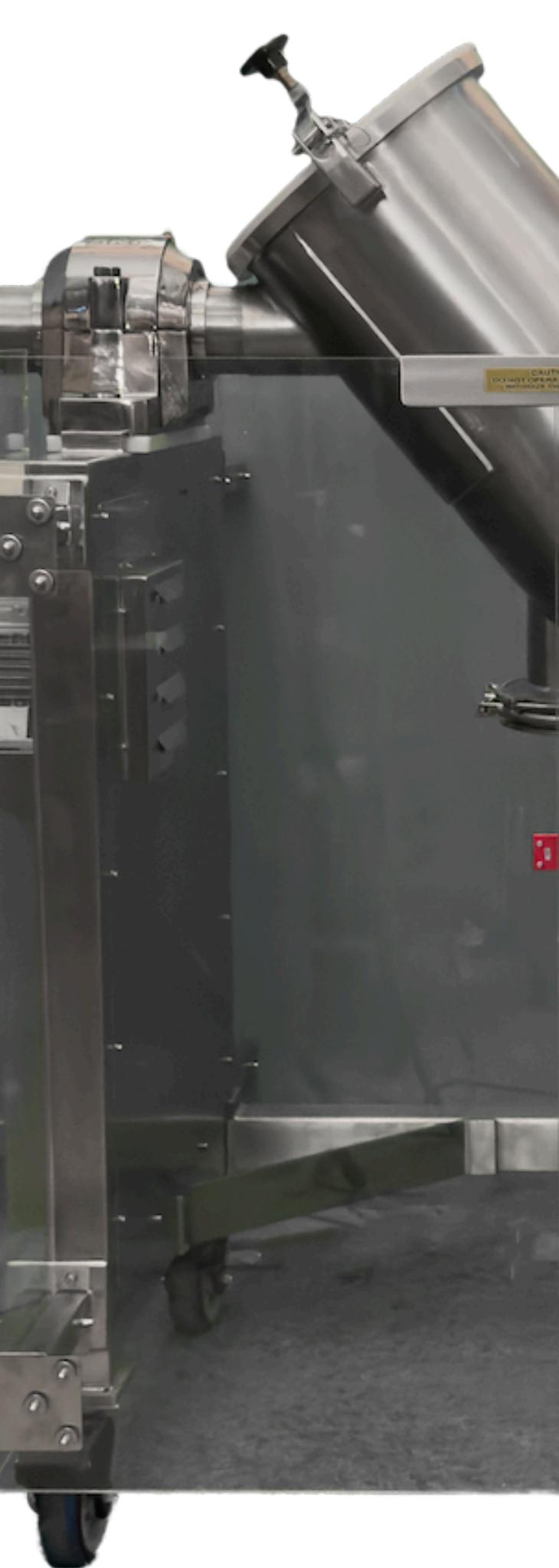
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# Powder Blenders

Formulation, Lab &  
Production Scale



# MaxiBlend®

## LAB BLENDER



### KEY FEATURES

- Interchangeable 316SS Vessels from 0.5, 1.0, 2.0, 4.0, 8.0 & 16.0 Qt
- Vessels include V-shells, Bins, Double Cones & Bottle Blending Attachments
- Patented **Sift-N-Blend®**
- High Speed Intensifier Bars for All 4.0, 8.0 & 16.0 Qt Vessels
- GMP Stainless Steel Enclosure
- Seamless Polycarbonate Guard
- Variable Speed Vessel drive 3-25 RPM
- Variable Speed Intensifier Bar Drive 100-3450 RPM
- CE Compliant

The **MaxiBlend® Lab Blender** is a cGMP-compliant blender designed for homogeneous blending with optional intensifier drive arrangements. It accommodates interchangeable blending vessels of various shapes—including V-shells, bins, and double cones—and supports **SIFT-N-BLEND®** intensifier, high-speed intensifier bar, and pin intensifier bar attachments. With the intensifier option, liquid addition is also possible. The system is equipped with safety interlocks and PLC-based controls to ensure reproducible results.

**SIFT-N-BLEND®** intensifier attachment facilitates simultaneous sifting and blending of the powders and provides excellent homogeneity in the blend as the powders pass through the screen multiple times. In addition, it eliminates the need for pre-screening of materials like silicon dioxide.

Shell sizes of 0.5 qt to 16qt can be interchangeably used. A bottle blending attachment is also available, which facilitates blending of small amounts in bottles.



# MiniBlend<sup>®</sup>

## BLENDER

The **MiniBlend<sup>®</sup>** is designed for flexibility, accommodating blending needs ranging from 2 grams to 1 kilogram. Its compact design and versatile features make it ideal for various laboratory environments from pharmaceutical, nutraceutical and compounding and beyond.



0.5 qt, 1 qt, and 2 qt vessels, and a small bottle blending attachment can be used interchangeably. Only V-shells are available in 0.5qt. No intensifier option is available with this blender. The **MiniBlend<sup>®</sup>** is CE Compliant.

### KEY FEATURES

- Interchangeable 316SS Vessels from 0.5, 1.0, 2.0 qt
- Vessels include V-shells, Bins, Double Cones & Bottle Blending Attachments
- GMP Stainless Steel Enclosure
- Safety Interlocked Polycarbonate Guard
- Fixed Speed Vessel drive 25 RPM
- CE Compliant



# SimpleBlend® BLENDER

## KEY FEATURES

- 1.0,2.0,3.0,5.0,& 10.0 cu ft in stock
- Stand-alone Direct Drive Blender
- Patented **Sift-N-Blend®**
- High Speed Intensifier Bar Optional
- All Stainless Steel Design
- Safety Interlocked Polycarbonate Guard
- Variable Speed Vessel drive 3-20 RPM
- Variable Speed Intensifier Bar Drive 300-18000 RPM
- Touchscreen HMI



GlobePharma's **SimpleBlend®** Pilot Scale Blenders are our most popular and affordable pilot scale blenders. These direct drive units allow for blending without lag caused by vessel belt drive motors. Our **SimpleBlend®** units are easily moved from storage or between operating rooms. Each unit is available with variable speeds for the vessel and intensifier bar drives. All intensifier bar drive units are **Sift-N-Blend®** compatible.

GlobePharma's touchscreen controls are standard with all SimpleBlend® units. The user friendly with multiple

blending segments offering individual speed, time and intensifier bar settings

The **SimpleBlend®** Blenders' GMP design is wash down ready with a 304 stainless steel frame and 316 stainless steel vessel. Each unit includes the corresponding sanitary butterfly valve. There is ample room for discharging into drums or containers.

All **SimpleBlend®** blenders include an interlocked safety guard.



# MaxiBlend®

## PILOT SCALE BLENDERS

GlobePharma's **MaxiBlend® 1-2, 1-2-3 & 5-10 Pilot Scale Blenders** continue the innovative interchangeability of the **MaxiBlend®** Lab Scale Blender with vessels up to 10 cu ft. These cantilever design units can accommodate 1, 2, 3, 5 & 10 cu ft vessels, including v-shells, bins and double-cones, with and without intensifier bars. Each unit is available with variable speeds for the vessel and intensifier bar drives. Our patented **Sift-N-Blend®** is compatible for all vessels.



The **MaxiBlend® 1-2** Blender's compact design allows users to easily load and unload, clean and store vessels using the corresponding cart. Its limited footprint makes the **MaxiBlend® 1-2** portable and easily fits in most labs.



The **MaxiBlend® 1-2-3 & MaxiBlend® 5-10** offers the same versatility as the **MaxiBlend® 1-2** with an upgrade to include a built-in lift system. This allows users to easily discharge from the elevated position into drums or containers.

The **MaxiBlend®** touchscreen controls are user friendly with multiple blending segments offering individual speed, time and intensifier bar settings. All units include either a safety interlocked laser guard or polycarbonate guard.





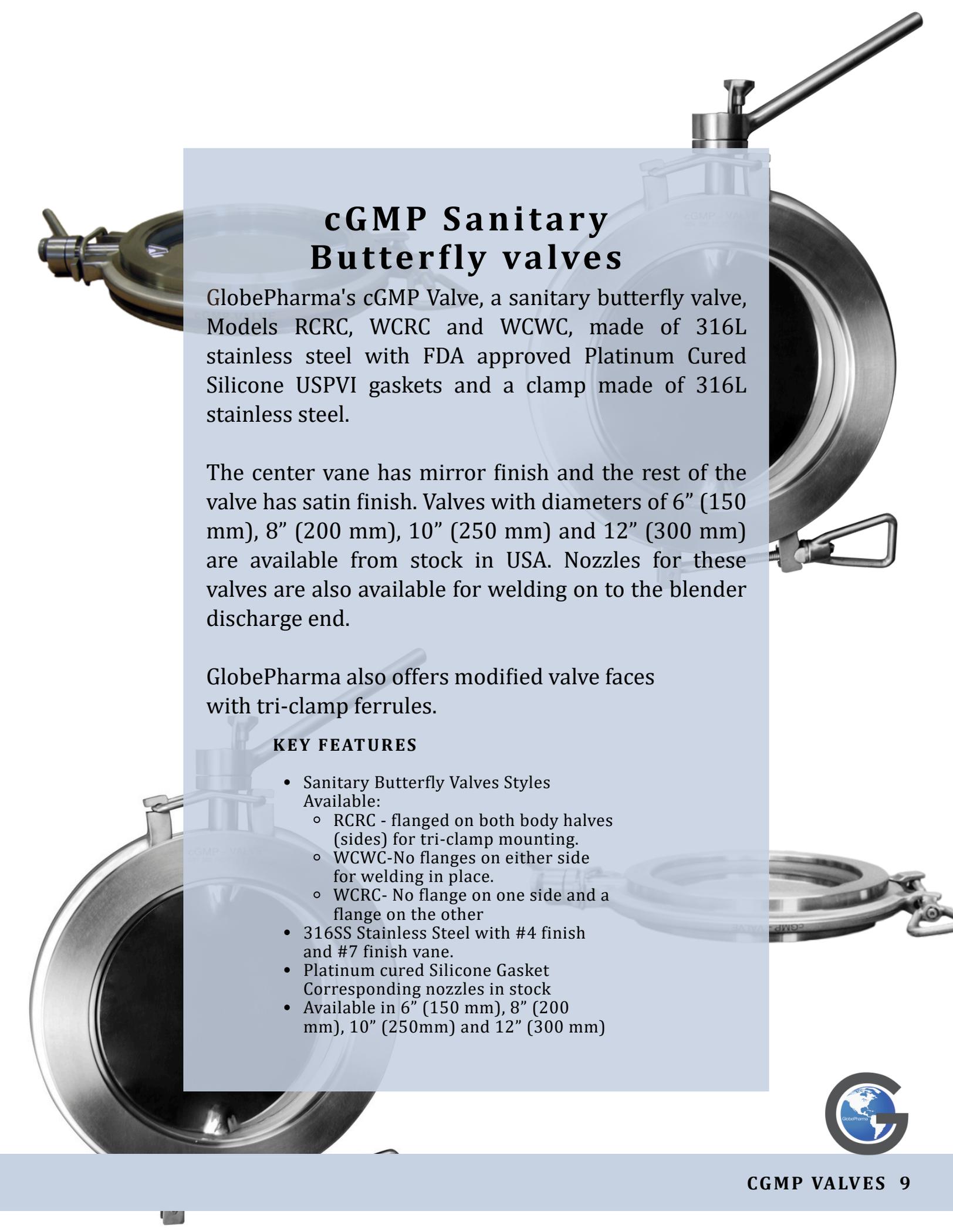
## SIMULTANEOUS SIFTING & BLENDING!



GlobePharma's patented **Sift-N-Blend**® technology (US 8,235,582; US 8,827,545; CA 2736942C; CA 2821188C; EP2703072B1) enables simultaneous sifting and blending within the vessel, eliminating the need for separate ingredient screening. This innovation ensures excellent content uniformity for pharmaceuticals—particularly low-dose formulations—as well as food and cosmetic ingredients such as colors, flavors, and sweeteners.

The **Sift-N-Blend**® attachment replaces traditional, heavy intensifier bars with a lightweight, easy-to-clean assembly consisting of a semi-tubular screen, mounting rods, and a high-speed paddle. Mounted on the trunnion hub, the screen rotates with the vessel while the paddle independently operates at variable speeds up to 2,500 rpm. This action continuously breaks up lumps and agglomerates, achieving a homogeneous blend without pre-screening.





## cGMP Sanitary Butterfly valves

GlobePharma's cGMP Valve, a sanitary butterfly valve, Models RCRC, WCRC and WCWC, made of 316L stainless steel with FDA approved Platinum Cured Silicone USPVI gaskets and a clamp made of 316L stainless steel.

The center vane has mirror finish and the rest of the valve has satin finish. Valves with diameters of 6" (150 mm), 8" (200 mm), 10" (250 mm) and 12" (300 mm) are available from stock in USA. Nozzles for these valves are also available for welding on to the blender discharge end.

GlobePharma also offers modified valve faces with tri-clamp ferrules.

### KEY FEATURES

- Sanitary Butterfly Valves Styles Available:
  - RCRC - flanged on both body halves (sides) for tri-clamp mounting.
  - WCWC- No flanges on either side for welding in place.
  - WCRC- No flange on one side and a flange on the other
- 316SS Stainless Steel with #4 finish and #7 finish vane.
- Platinum cured Silicone Gasket  
Corresponding nozzles in stock
- Available in 6" (150 mm), 8" (200 mm), 10" (250mm) and 12" (300 mm)



# MILLS

## Hammer Mills & Cone Mills



# GP MILL 1

## TABLE-TOP HAMMER MILL

The **GP Mill 1** is a compact, table-top mill designed for small-scale milling, capable of processing batch sizes as small as 5g, this R&D mill is ideal for de-lumping, pulverizing, and controlling particle size reduction of various materials.

Despite its small size, the **GP Mill 1** delivers the same process advantages as larger mills and can be seamlessly scaled up.

### KEY FEATURES

- Results Scale Directly to Larger Hammer Mills.
- Batch Sizes as Small as 5gm
- Process Wet or Dry Products
- All Stainless Steel Design
- Safety Interlocked Chamber
- Variable Frequency Drive with Speed Indicator
- Product Containment System with Filters.
- Easily disassembled product contact parts meet highest cGMP standards



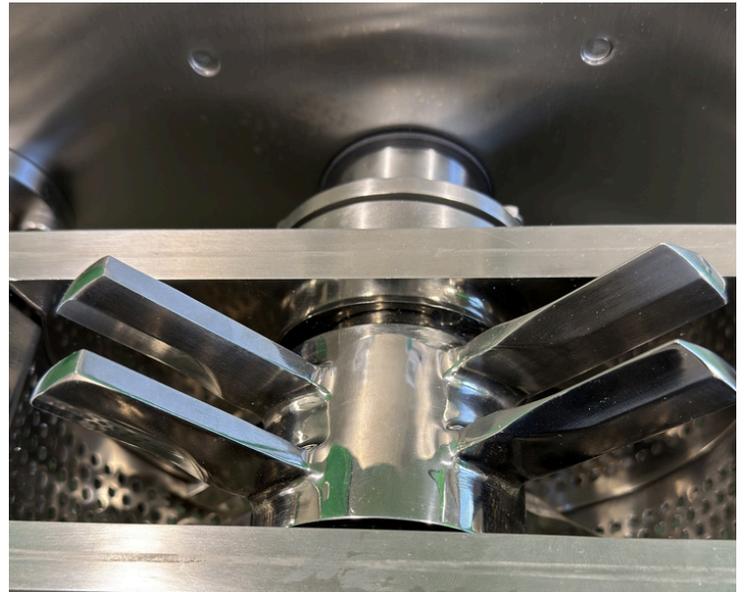
Built with 316 stainless steel contact parts and housed in a 304 stainless steel enclosure, it meets the highest cGMP standards for product contact.

The mill offers both impact (hammer) and cutting (knife) actions, easily selected by pushing a button. Both milling styles are integrated on the same rotor, and the unit's reversing motor enables either knives forward or hammers forward milling without the need to lift and reverse the milling chamber.





# GP MILL 5/2.5 HAMMER MILL



The **GP Mill 5-2.5** is a hammer mill with capability of interchangeable milling chambers for R&D as well as pilot batches. This mill offers both impact (hammer) and cutting (knife) actions, easily selected by pushing a button on the unit.

The innovative design places both milling styles on the same rotor, and a reversing motor facilitates easy switching between hammers and knives, without the need for lifting and reversing the milling chamber.

Switching between chambers is quick and effortless: simply unscrew the mounting bolts, slide out the existing chamber and blades, and secure the new configuration onto the same drive system. Users can seamlessly adjust the milling speed using the intuitive touchscreen HMI display.

Comes with variable speed drive and integrated safety interlocks and protective grid underneath the milling chamber.



# GP CONE MILL 197

## CONE MILL

**GP Cone Mill 197** is specifically designed for lab-scale conical milling. Each machine comes equipped with one screen and one impeller of customer's choice, with numerous available screens and impeller designs, providing process versatility and efficiency. This mill is portable, and the on-caster design allows for easy movement throughout any facility.



Milling is an operation which is used to reduce the particle size of the product being processed. Cone mills are used for reducing the size of dried granulations or for de-agglomeration or de-lumping because of its gentle milling nature.

Variable speed drive and safety interlocks are standard features.

### KEY FEATURES

- Conical Milling with Interchangeable screens.
- Numerous Impellers & Screen Options.
- Touchscreen HMI
- Process Wet or Dry Products
- Stainless Steel Frame and 316SS Contact Parts
- Washdown Compliant



# HIGH SHEAR GRANULATORS



# GP HSG 5 HIGH SHEAR GRANULATOR

**GP HSG 5** High Shear Granulator with interchangeable bowls from GlobePharma is a versatile, high-shear wet granulator designed for pharmaceutical, nutraceutical and food formulation development applications, including mixing, wet granulation, and pelletization of powders. Compared to **GP HSG 1-6**, this model is a more cost-effective option for wet granulation.

Wet granulation is done with powders which have poor flow and inadequate compactability, usually with a binder solution. After wet granulation, the wet mass is dried and milled in separate equipment for further processing into dosage forms, such as tablets and capsules.

Designed for efficiency and value, this compact, economical system offers interchangeable 316 stainless steel bowls in 1-, 3-, and 5-liter capacities, available in both standard and jacketed versions. Each bowl includes a variable-speed, three-blade impeller, with an optional top-mounted variable-speed chopper assembly for making fine granulations. For added flexibility, the system also offers optional liquid addition and jacketed bowls to enable precise heating or cooling during processing.



## KEY FEATURES

- Interchangeable 316SS Bowls, jacketed and standard of 1.0L, 3.0L tulip design, and 5.0L working capacities.
- All bowls include the 3-blade designed main impeller
- Optional high speed chopper assembly
- Touchscreen HMI with user friendly controls.
- Stainless Steel Enclosure
- Integrated magnetic safety switches.
- Optional liquid addition system



# GP HSG 1-6

## HIGH SHEAR GRANULATOR

**GP-HSG 1-6 High Shear Granulator** with interchangeable bowls from GlobePharma is a versatile, benchtop high-shear wet granulator designed for pharmaceutical formulation development applications, including mixing, wet granulation, and pelletization of powders.

Wet granulation is done with powders which have poor flow and inadequate compactability, usually with a binder solution. After wet granulation, the wet mass is dried and milled in separate equipment for further processing into dosage forms, such as tablets and capsules.

This versatile system features interchangeable 316 stainless steel bowls (0.5–6 L), each equipped with a variable-speed three-blade impeller and side-mounted chopper for making fine granulations.. An air purge design keeps operation clean, while the touchscreen HMI with PLC controls help provide reproducible results. Optional features such as liquid addition, jacketed bowls for heating or cooling, and a mobile stainless-steel cart make it highly adaptable to diverse laboratory needs.



### KEY FEATURES

- Interchangeable 316SS Bowls, Jacketed and Standard of 0.5L, 1.0L, 2.5L, 4.0L, 5.0L and 6.0L Working Capacities.
- All bowls include the 3-blade Designed Main Impeller
- Side Mounted Chopper
- Touchscreen HMI with user friendly controls.
- Stainless Steel Enclosure
- Integrated Magnetic Safety Switches.
- Optional Liquid Addition System



# TABLET PRESSES

## ROTARY & MANUAL PRESSES



# VersaPress®

## ROTARY TABLET PRESS



**VersaPress®** is an automatic, durable, cGMP compliant rotary tablet press with 316 stainless steel die table (product contact part of the turret), B, BD or D type multiple stations of a variable speed turret. 5 tons compression force and 2 tons pre-compression force help compacting difficult to compact powders. It offers exceptional versatility with multiple turret configurations, including the option of combining 7 stations each of B and D punches on a single turret. Variable speed turret allows running the press at slower speeds, which combined with use of just two stations makes it possible to run very small batches.



**VersaPress®** includes both gravity and force feeders for optimal flexibility with difficult to flow powders. With turret capacities of up to 18 stations for B tooling and 12 stations for D tooling, VersaPress® provides users with a wide range of R&D and pilot scale production capabilities.

Also available is an instrumentation package to monitor pre-compression, main compression and ejection forces.



# GP MTCM

## MANUAL TABLET COMPACTION MACHINE

The **Manual Tablet Compression Machine, MTCM-I** model is designed for compacting powders into single tablets and can also compress unit-dose powder samples from GlobePharma's samplers for analytical testing. It produces single tablets, double-layer tablets, and tablet-in-tablet (core-in-shell) formats, one at a time, using hydraulic pressure applied via a manual pump.

The unit includes a calibrated pressure gauge (5,000 or 10,000 lb capacity) and accommodates standard "B," "D," and "DS" tooling without modification. Round or special-shaped punches may be used. One set of punch holders is included, with additional holders and tooling available as options. The compact, 65-lb unit (16" W × 12" D × 24" H) is easily portable.

The **Manual Tablet Compaction Machine, MTCM-III** model, allows simultaneous compression of multiple tablets using a split sample die and multi-tip punch. Equipped with a heavy-duty hydraulic piston, it enables easy ejection of tablets directly into a collection cup after compaction.



MTCM-I



MTCM-III



# POWDER SEGREGATION TESTER



**DYNASEG™**  
POWDER SEGREGATION TESTER  
[Patent Pending]



 WEAR EYE  
PROTECTION

DO NOT  
OPEN THE  
MACHINE  
UNTIL THE  
ONE TURN

# DYNASEG™

(Patent Pending)

## POWDER SEGREGATION TESTER

An innovative apparatus, **DYNASEG™** (Patent Pending), and method for segregation testing of powder blends are introduced by GlobePharma after 30 years of research and five prototypes, enabling determination of segregation potential under stressed dynamic conditions. It empowers pharmaceutical formulation scientists to evaluate, during the formulation development stage, which powder blend formulations are most resistant to segregation during large-scale manufacturing. By identifying robust formulations at the formulation development stage, manufacturers can mitigate content uniformity failures and align with the “Quality by Design” (QbD) principles for consistent, cGMP compliant production.

A small sample (30 cc) of the powder blend is introduced into a stainless tube having a series of baffles. The powder flows with gravity over the baffles and collects onto a split sample die with 30 unit-dose cavities. The powder on the split die is scraped even with a spatula and the individual powder samples in the cavities are compressed into tablets individually with a standard tablet punch or simultaneously with a multiple punch, the top part of the split die with the tablets is separated and the tablets are ejected using the same punch. The tablets are then analyzed for active ingredients using standard analytical techniques, and content uniformity is calculated.



Vibration may be added as an additional stress factor while the powder is flowing over the baffles to evaluate how resistant the blend is to segregation under stressed conditions. This is akin to stability testing of pharmaceuticals under accelerated conditions, providing a QbD approach for blend optimization.



# ASK US

For more information  
about our ...

## SAMPLERS

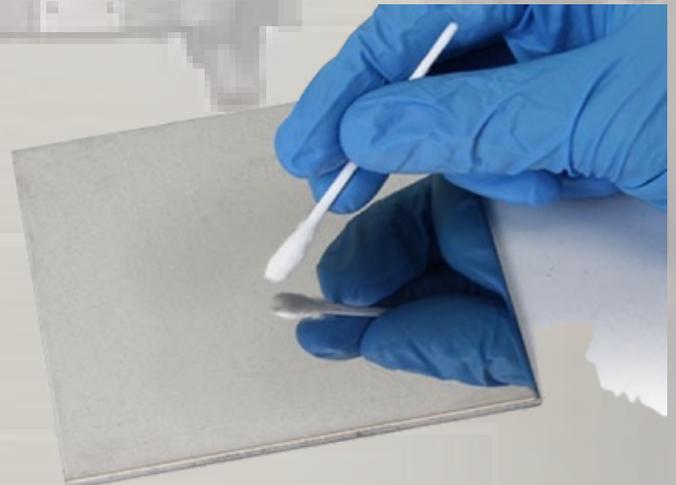
Powder, Liquid &  
Semi-Solid Samplers

## CLEANING VALIDATION TOOLS

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