



**Genesis Process Technologies**

Committed To Excellence



**Bin Blender OR Conta Blender** is multipurpose blending concept offering uniform & efficient blending while reducing changeover time. While general concept for blending remains as per industry standards, Genesis Bin Blender offers special advantages because of square bin profile and eccentric rotation giving assymmetric blending patter which ensures homogeneous mixture within reduced blending time. Desinged for detachable bins with varying capacity it also drastically reduces changeover time for blending process. These bins also serve as storage and transportation vessels for blended material eliminating risk of contamination during material handling.



## Key Features:

- Reproducible uniform blending
- Proven cantilever design
- Soft start and Soft Stop
- Complete washdown design with contact parts SS 316L and non-contact parts SS 304
- Bins with continuous surface without dead spots for ease of material flow and cleaning
- Interchangeable Bins with detachable trolley for ease of loading and unloading
- FDA approved silicone gaskets
- Safety barrier with interlock and option of light / laser barrier
- HMI based recipe management system
- 21 CFR Part 11 controls
- ATEX compliant and Explosiveproof models available
- Containment systems with integration of Active-Passive valves available
- Option of NIR for PAT compliance available
- Rotation counter (RPM Counter)
- Option of pneumatic discharge valve

## Advantages of Genesis Bin Blender:

- Low Space required for Installation
- Flexibility of capacity with compatibility of detachable bins of varying capacity
- Latch System Available for Safety
- Uniform mixing in short time due to unique bin profile and eccentric rotation design
- Dust free operation
- Quick changeover
- Bins suitable for storage and material handling operation eliminating additional process and human intervention with product
- Ease of cleaning
- Reverse Blending
- Single Column mounted up to 2000 Liter Blender
- Twin column mounted up to 5000 Liter Blender

Model	Bin Interchangeability in Liter	Approx. Weight (In KG)
GPT-CB-200	20 -200	800
GPT-CB-500	50-500	1200
GPT-CB-1000	100-1000	1800
GPT-CB-1500	150-1500	2500
GPT-CB-2000	200-2000	3200





## GENESIS AI MOBILE BLENDER



### Genesis All in One Blending system

Pharma standards according to During product development phases, users face key question; which blender to select for which product. Even in same generic recipe; each customer has their own preferred particle size, component specification, ingredient percentage; each of which has major impact of final blend uniformity. All this makes selection of blender even more unique and tenacious for each user.

Our AI blender is designed to address this issue of development stage and for multi-product pilot plants. Genesis AI blender offer compatibility for all blending profiles including Square bin, V-shell, Octagonal, Double cone, Cylindrical drum for wide range of capacities varying from 5 liters to 500 liters batches with lifting and lowering system Going beyond, AI Blender is available in customized portable mobile module.

Similarly, for potent compounds require smaller batch sizes in full production, AI Blender is available with stationary design compatible for through the wall blending systems.



## Genesis V Shape Blender



**Genesis V-Shell** Blenders uniformly displace materials for a complete blending of products via the intermeshed action of two inclined cylinders attached together in the form of a "V". This results in precise blending with short mix cycles. Tumble blending is most suited to products of uniform product size and density, and where requirements for fast, thorough cleaning are desirable in sanitary applications.

For applications requiring dispersion of minor ingredients, and/or breaking up materials, which tend to form agglomerates, the blender can be equipped with a solid's intensifier bar (beater or pin type), which is designed for ease of removal.

For incorporation of liquids, the intensifier bar shaft is hollow, and equipped with a feed tube to dispense liquid between the beater bar discs in a finely atomized spray throughout the mix. Batch working capacities range from 1 cubic foot to 150 cubic feet.

For products having poor flow properties, a shell design having a 70° angle is available upon request



**Agitator OR Intensifier Bar requirement:** Convertible models are available for the customer who does not have an immediate requirement for use of an agitator but has the possibility for future applications. This design includes a pre-machined blender idler shaft to accept bearing, seal assembly, and insertion of the agitator assembly.

## Standard Features

- PLC controlled, fully automatic load and discharge functions.
- Operator station supplied in stainless steel, watertight construction with "Touch Screen" operator interface display incorporating blend timers.
- All stainless-steel roller conveyor and instrumentation tubing.
- Adjustable positioning cams with proximity sensors.
- Pneumatic controls supplied in stainless steel, watertight construction, pre-mounted to blender frame (or for remote mounting, as desired). Contains all pneumatic valves with pushbutton control for raising/lowering lift cylinders, and opening/closing discharge valve. Operator is removed from the lift platform area for safe operation.
- Sanitary butterfly discharge valve is clamped to the blender outlet for quick disassembly and with quick release design for ease of cleaning and maintenance. Valve flange seal can be customized to suit the customer's product container.
- FDA quality drum flange seal can be easily removed from machined valve flange.
- Special PLC programming with safety interlocks for optimum operator safety.
- Shaft-mounted gear motor installed via shrink disc coupler eliminates maintenance of traditional gear drive. Speed regulation via AC variable frequency.
- Vacuum or Drum Loading System Available

Model	Working Volume in Liter 30% to 70%	Approx. Weight (In KG)	Motor HP
GPT-VB-200	60 -140	800	3 HP
GPT-VB-500	150-350	1000	5 HP
GPT-VB-1000	300-700	1600	7.5 HP
GPT-VB-1500	450-1050	2200	10 HP
GPT-VB-2000	600-1400	3000	12 HP
GPT-VB-3000	900-2100	3600	15 HP
GPT-VB-5000	1500-3500	4200	20 HP
GPT-VB-10000	3000-7000	5200	30 HP