

PB SERIES POWDER BLENDERS

PB SERIES FOR POWDER OR PELLET MATERIALS

The PB Series blender is designed for continuous extrusion applications for powder, pellet, or micro-pellet materials and offers the most homogeneous blend available compared to common batch-type blenders or mixers. Materials like PVC, wood flour, and additives can be efficiently blended for your operation. Twin screw feeders can also be provided for non-free-flowing materials. Throughput rates range up to 16,500 lbs./hr. (7,500 kgs/hr) in continuous extrusion applications, including compounding, profile, fiber and sheet.

The control system automatically adjust individual ingredient feeders to match the extruder rate at the exact ratio required. Color and additives can be metered down to the lowest tolerance level without affecting end product quality. This results in minimal usage of color or additives and a direct savings in overall production costs. Accuracy of $\pm 0.1\%$ can be achieved, even at very low throughputs.

BENEFITS OF PB SERIES BLENDERS

- Continuous gravimetric blenders respond to changes in the recipe "on-the-fly"
- Offers the most homogeneous blend available
- More consistent product quality
 - ingredients are homogeneously dispersed, ensuring a more consistent product cross section, resulting in more consistent product
 - Continuous feeding eliminates surge or starvation of material at the extruder screw
- Elimination of over-feeding to maintain minimum product specification reduces resin consumption, resulting in higher line yields and increased profitability

STANDARD FEATURES

- Mezzanine mount configuration
- Blender automatically adjusts feeders to match extruder rate at the ratio required
- Capable of starve or flood feeding of extruder
- Supply hoppers with reload valves
- Stainless steel and nickel plated aluminum construction
- Precision vibrating wire digital load cells
- Feed augers with DC motors
- Touch-screen operator panel features easy menu-driven graphic format, RS-232 printer port, recipe storage book, and material usage information
- Hopper lids arranged for ACS • Walton/Stout SRC vacuum receivers and PHL or SLC hopper loaders. Lids may also be cut for other loaders at no additional charge provided detailed drawings are submitted with the order.
- 230/1/60 supply voltage

OPTIONAL FEATURES

- Twin screw feeder with integral agitator for non-free flowing or cohesive materials
- High temperature model, 350°F (175°C)
- Vacuum loading equipment
- Liquid additive introduced below blender

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Bulletin WB1-140

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PB SERIES POWDER BLENDERS

No. of Components	Height in (mm)	Width in (mm)	Depth in (mm)	Weight lbs (kg)
1	70 (1780)	36 (915)	40 (1020)	350 (160)
4	70 (1780)	54 (1375)	40 (1020)	500 (230)
6	80 (2035)	60 (1525)	50 (1270)	750 (345)
8	80 (2035)	60 (1525)	55 (1400)	1000 (455)

TYPICAL POWDER MATERIALS

Type	Feeder	Materials
Free-flowing or non-cohesive	Single screw feeder without agitation	PVC powder or compound; Sodium Carbonate; Color concentrate; Blowing agent; Various ground materials
Free-flowing or non-cohesive	Single screw feeder with agitation	Wood flour; Oat, wheat or rice hulls; Knaff; Hemp; Talc
Non free-flowing or cohesive	Twin screw feeder with agitation	Calcium Carbonate; Talc; Clay; titanium Dioxide (TiO ₂); Various wax granules; UV stabilizers; Stearates; Pigments

CONTROL SYSTEM

The metering stations can operate independently or in tandem on a co-extrusion line. The menu-driven control is geared for easy operation with messages appearing in plain text. The set point for each material can be entered during operation. Password protection avoids unauthorized access to stored data or recipes.

- Menu-driven control with password protection
- Recipe storage
- Event and inventory logging
- Printer interface (optional)
- Multiline™ control system (optional)
- Communications package



PBW feeder for wood flour



Twin screw, agitated powder feeder

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