



Precise control for a combination of granules, flakes and liquids

High flow dispense valve rated at 10,000 grams/second.

MAXIBATCH™ Series

Part of the Maxibatch series, the WSB 3000 offers highly flexible yet modular solutions to larger throughput applications. The system is particularly well suited where the combination of granules, powders, flakes, liquids and other challenging materials need precise control.

Precision dosing

Incorporating a range of pneumatic valve hoppers, feeders and pumps that ensure dosing precision to the highest level.

Wide range of settings

Each free-flowing material is dosed by a vertical valve or corner valve. The corner valve is especially suited to re-grind or flake materials with a low bulk material density. Both valve types are capable of dosing a wide range of settings, from as little as 1% to 100%.

Keep poor flowing materials moving

For poor flowing materials, such as flour and talc fillers, a range of auger feeders with internal agitators are available to keep material flowing.

Large blender throughput capacity

The WSB 3000 is ideal for large throughputs up to 8,800 lb/hr (4,000 kg/hr) for as many as 12 ingredients. High flow dispense valve rated at 10,000 grams/second.

Batch size

The hoppers and augers are mounted above the weigh bin with a default 66 lb (30 kg) batch size.

High consistent accuracy

On every material within $\pm 0.1\%$ on a 1% setting.

Sequential dispensing

The system tares the weight of the weigh bin and then each material is dispensed – Re grind, Natural, Color and Additive – in sequence to ensure accurate dispenses of every material within the blend.

Homogenous mix

A complete batch is released into the mixing chamber and mixed with the previous batch to ensure a homogenous mix.

Control of the mix

Material blending is controlled by a level sensor mounted in the upper part of the mix chamber to retain accurate mixing. When the sensor is covered, the blender will not dispense any further batches.



Easy set up

Settings are made easily by either user friendly thumbwheels or entering settings directly on the keypad / optional touchscreen.

Password protection

Special functions can be easily accessed and set via the password protect key.

Audible and visual alarms

An audible and visual alarm sounds should a batch be incomplete.

Reporting

Setup and generation reports can be printed direct to a USB key. Alternatively, data is also available via Ethernet or serial ports allowing remote access and monitoring.

Integration

Integration to other control or ERP systems can be made via leading fieldbus or OPC interfaces.

Quick cleanout

A compressed air gun is provided for quick cleanout.

Rapid color change

Easy access to all material contact surfaces of the machine including hoppers, weigh bin and mixing chamber allows for rapid color changes without the use of tools.

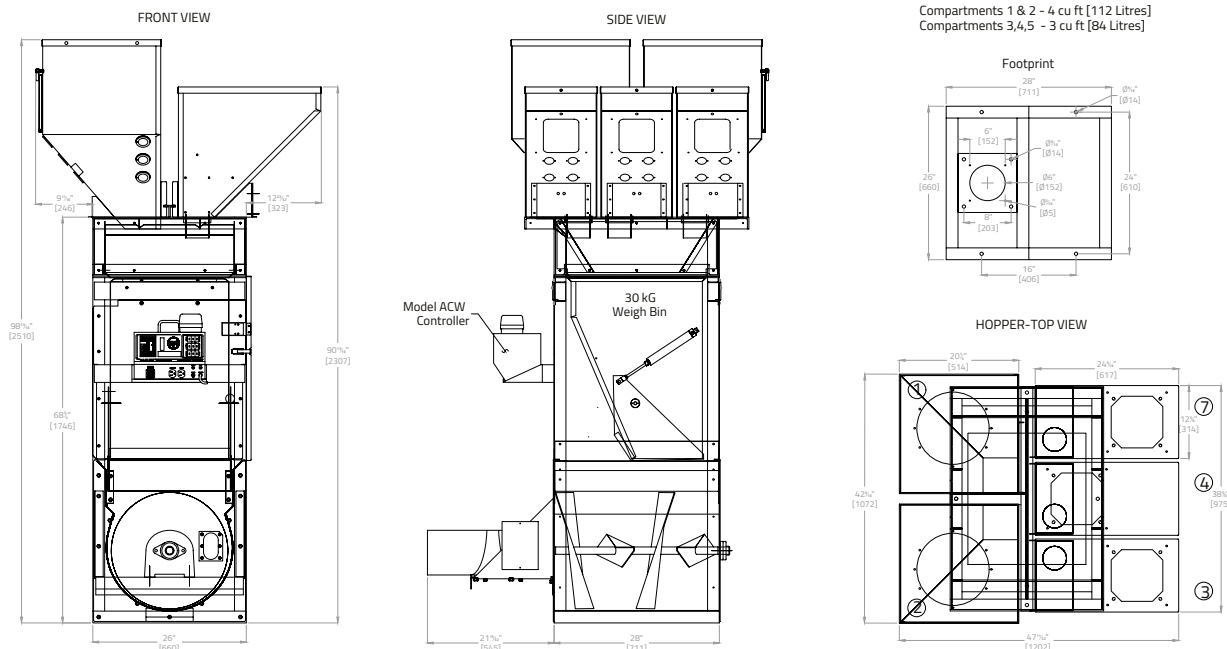
Controller

The Maguire controller monitors and confirms the weight of each ingredient and comes with an optional touchscreen.



WSB 3000 Gravimetric Blender Dimensions

Our 3000 series blenders are always custom built with hoppers sized according to your requirements. The following drawing is an example of this series for reference only.



Technical data

Model WSB 3000	
Maximum Throughput*	3,000kg/h to 3,900kg/h 6,800lb/h to 8,500lb/h
Number of Materials	12
Material Dispense Systems	High flow corner valve 2" or 4" vertical valve 2", 3" or 4" dia auger feeder
Weight	340-650kg 750-1430lb
Three Phase Power Supply	230/3/60 - 3.6 Amp 480/3/60 - 1.8 Amp 400/3/50 - 1.8 Amp
Operating Air Pressure	6 Bar 80psi
Air Consumption	0.3 m³/hr 0.17cfm
Shipping Weight	370-680Kg 815-1500lb
H x W x D (base unit only as an example)	200 x 153 x 95cm 80 x 61 x 38in

*Throughput achieved is influenced by number of materials, how well they flow, vibration and loading consistency - each can effect maximum output of a blender, which in turn effects sizing the correct blender required for an application.

Key features

- Ideal for large processing machines using high percentages of wood flour and fillers
- Reduced weight and footprint
- Overall precision of $\pm 0.1\%$ of specified blend
- Compressed air gun for quick cleanout included
- Easy access to all material contact surfaces of the machine including hoppers, weigh bin, and mixing chamber permits rapid colour change without the use of tools
- Proprietary microprocessor-control technology monitors and confirms the weight of each ingredient / touch-screen optional.
- Compensation is made when a variation in dispense weight is detected
- Vibration Weighing management
- Improved documentation capabilities
- 5 Year Warranty



Maguire reserves the right to cancel product or change product, product specifications and data without notice to improve reliability, function, design or otherwise.

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