



WSB MaxiBatch™ Series Gravimetric Blenders

The MaxiBatch series designed to offer highly flexible, yet modular solutions to larger throughput applications. MaxiBatch is particularly suited where the combination of granules, powders, flakes, liquids and other challenging materials need precise control.

Wide Range Of Settings

Main materials are dosed by a stainless steel slide gate. The slide gate is capable of dosing a wide range of settings, from as little as 1% to 100%, based on an average density free flowing material.

Precision dosing

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

Keep poor flowing materials moving

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

Plus

- › Audible and visual alarms
- › A compressed air gun is provided for quick clean out.
- › Hoppers and augers are mounted above the weigh bin with a default batch size of 2.2 lb
- › Compensation is made when a variation in dispense weight is detected.
- › Special functions can be easily accessed and set via the password protect key.
- › 5-Year warranty



Setup and Operation Reports

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

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.



WSB-MaxiBatch

Controller

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

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. on the optional touchscreen.

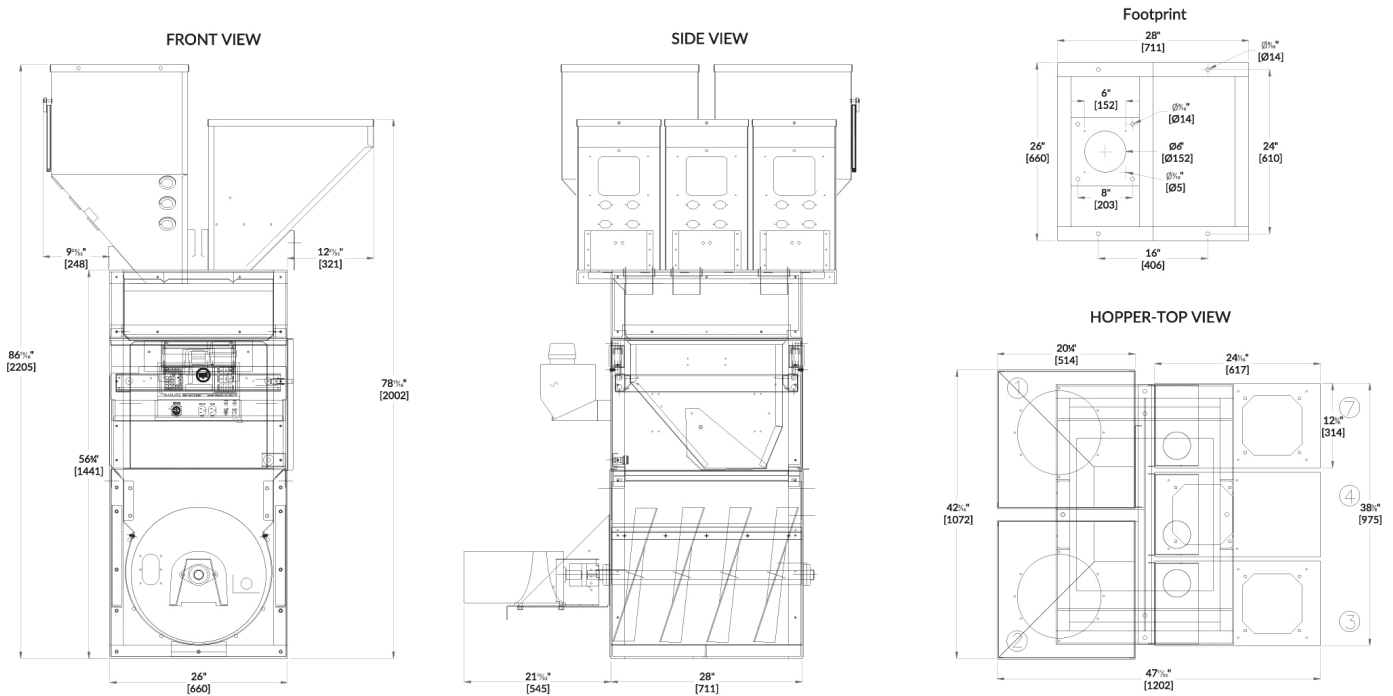
Technical data

Model	WSB-2420	WSB-2440	WSB-2443	WSB-2445
Batch Size	Batch size, 50 - 105 lb (24 - 48 Kg)			
Maximum Throughput*	Up to 8000 lb/hr (Up to 3600 Kg/hr)	Up to 4000 lb/hr (Up to 1800 Kg/hr)	Up to 3000 lb/hr (Up to 1360 Kg/hr)	Up to 1600 lb/hr (Up to 750 Kg/hr)
Number of Materials	2	4	7	9
Type of Material	High-Volume Extrusion	High-Volume Extrusion	Compounding	Wood Composite
Material Dispense Systems	Hi-Flow Corner Valve			
Vertical Valves/Feeders	2" or 4"			
Auger Feeders	2", 3" or 4" dia.			
Power Supply	230 V/3ph/60Hz 480 V/3ph/60Hz 400V/3ph/50Hz			
Air Supply	80 psi 6 Bar			
Air Consumption	0.3 m ³ /hr 0.17cfm			
Shipping Weight lb/Kg	825/375	825/375	1225/560	1425/650

*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.

Dimensions: MaxiBatch 2400 Series

Compartments 1 & 2 - 4 ft³ (112 Liters)
Compartments 3, 4, 5 - 3 ft³ (84 Liters)



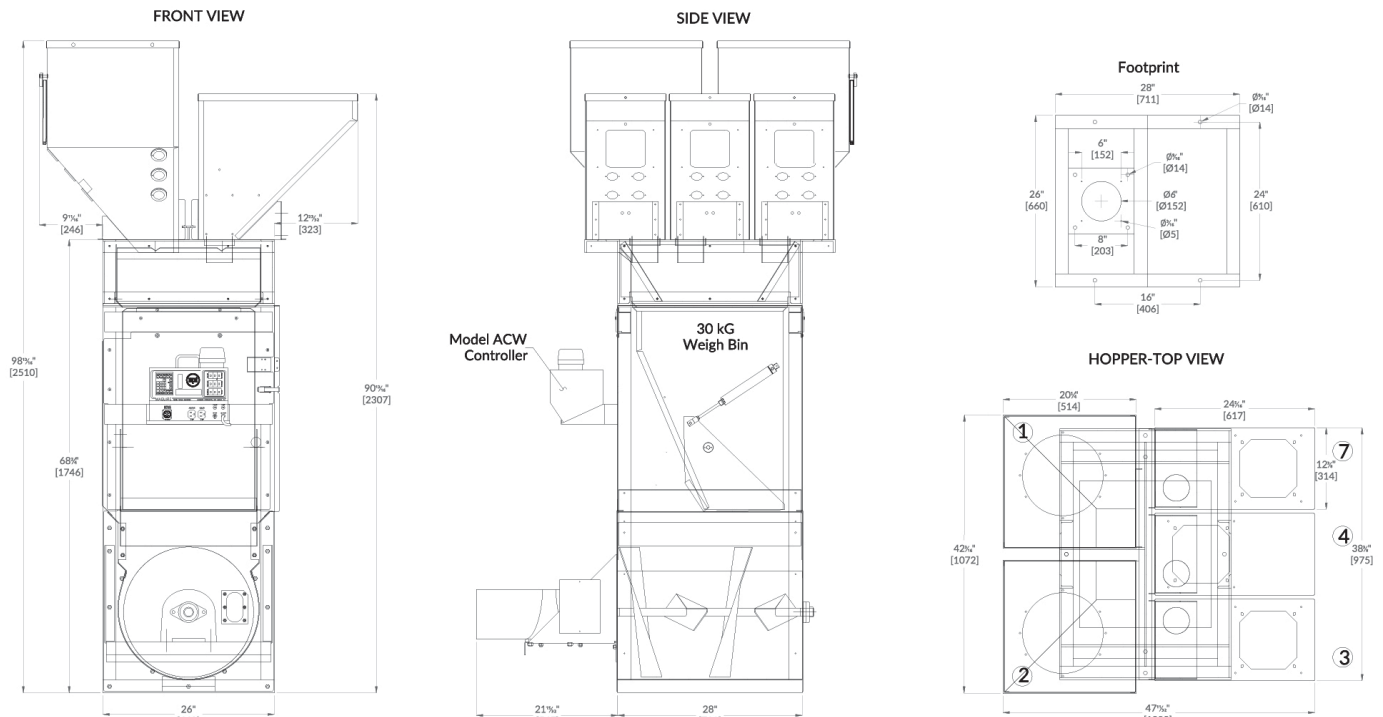
Technical data

Model	WSB-3020	WSB-3040	WSB-3043	WSB-3045
Batch Size	Batch size, 70- 130 lb (30 - 60 Kg)			
Maximum Throughput*	Up to 12000 lb/hr (Up to 5500 Kg/hr)	Up to 6000 lb/hr (Up to 2700 Kg/hr)	Up to 4800 lb/hr (Up to 2200 Kg/hr)	Up to 2200 lb/hr (Up to 1000 Kg/hr)
Number of Materials	2	4	7	9
Type of Material	High-Volume Extrusion	High-Volume Extrusion	Compounding	Wood Composite
Material Dispense Systems	Hi-Flow Corner Valve			
Vertical Valves/Feeders	2" or 4"			
Auger Feeders	2", 3" or 4" dia.			
Power Supply	230 V/3ph/60Hz 480 V/3ph/60Hz 400V/3ph/50Hz			
Air Supply	80 psi 6 Bar			
Air Consumption	0.3 m ³ /hr 0.17cfm			
Shipping Weight lb/Kg	900/400	900/400	1300/600	1500/680

*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.

Dimensions: MaxiBatch 3000 Series

Compartments 1 & 2 - 4 ft³ (112 Liters)
Compartments 3, 4, 5 - 3 ft³ (84 Liters)

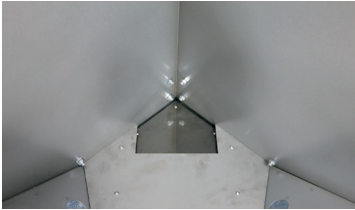


Proprietary interchangeable dispense devices



High Flow Corner Valve

Will dispense pellet or regrind materials only
Hopper capacity: 4 ft³ (113 liters)
Flow Rate: 11,000 grams/sec. @ 35 lb/ft³ (56 Kg/dm³)
Part number: as6-C



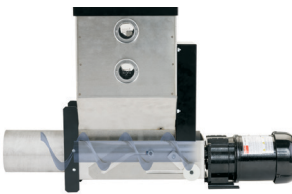
Low Flow Pivot Valve

Suitable for pellets, regrind and some LGF materials
Hopper capacity: 2 ft³ (57 liters)
Flow rate: 2,000 grams/sec. @ 35 lb/ft³ (56 Kg/dm³)
Part number: as6-V



Wood Flour/Powder Feeder - with internal bridge breaker

Suitable for very low bulk density powders
Specifically designed for wood flour @ 10-15 ft³ (16 to 24 Kg/dm³)
Hopper capacity: 4 ft³ (113 liters)
Flow rate: 3 ft³ /min. (85 liters/min.) - 4" auger
Part number: AWF-64W



Small Capacity Powder Feeders

Suitable for a variety of powdered materials
Hopper capacity is limited and should be used for minor ingredients
Hopper Capacity: 2 ft³ (57 liters)
Flow Rates: 3" Auger: 2 ft³/min (57 liters/min) Part number: AWF-48
4" Auger: 3 ft³/min (85 liters/min)
Part number: AWF-64



2" Pellet Feeder

Suitable for pelletized additive materials
Hopper Capacity: 2 ft³ (57 liters)
Flow Rate 10 lb/min. (5 Kg/min)
Part number: AWF-16

Advanced Controls Provide Flexibility and Accountability

Standard Controller

Over 40,000 in use around the world

Enter settings for percentage of color, additive or regrind on the thumb wheel switches, and the system does the rest. Clear messages in 9 languages replaces coded readout. User-friendly interface: 2-line, 40-character vacuum fluorescent display. USB port included for software updates, printers and documentation. Ethernet capability now standard.



Operation

Each material is dosed by a stainless steel slide gate. The slide Gate is capable of dosing a wide range of settings, from as little as 1% to 100%, based on an average density free flowing material (0.65 BD).

For enhanced accuracy and consistency on small percentage settings (1% to 4%) a Slide Gate Restrictor (SGR-1) is recommended to restrict the opening of the gate by 50%- this reduces flow and enhances control.

The hoppers are mounted above the Weigh Bin with a default 18kg batch size.

In normal operation the system tares the weight of the weigh bin and then each material is dispensed - Regrind, Natural, Color and Additive in sequence, weighing each material after each dispense confirming material required before moving on to the next material.

The complete batch is released into the mixing chamber, and mixed with the previous batch to ensure a homogeneous mix.

Material blending is controlled by a level sensor mounted in the upper part of the mix chamber.

When the sensor is covered the blender will not dispense any further batches. The level of material in the mix chamber is critical to good mixing.

As material in the mix chamber is consumed the sensor is uncovered and then the blender then commences the next cycle.

Control

The WSB Controller has 124 standard features and functions that technically make it lead the industry regarding blending control.

Key to this is the continuous calibration of materials ensuring accurate dispenses of every material within the blend.

The Controller every dispense updates the gram/second flow rate of each material, ensuring consistent accuracy.

Settings are made easily by either user friendly thumb wheels, or entering settings directly on the keypad.

For special functions these can be easily accessed and set via the password protected key-pad.

There is audible alarm and strobe light with silence function, should a batch be incomplete, for example running out of additives or master-batches.

Setup and Operation reports can be printed direct to a USB key.

Data is also available via Ethernet or serial ports, allowing remote access and monitoring to download settings and check job progress.

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