



Ideal for fast material changes and quick color changes

Easily access the removable hoppers by quickly disconnecting the mounting bracket.

100 series

The WSB 140R consists of 1 hopper with 2 material compartments and 2 removable hoppers. Ideal for injection molders and small extruders with throughputs up to 450 lb/hr (205 kg/hr).

Mounting bracket with quick release connections

The unit comes with an optional receiver support mounting bracket for the removable hoppers. This mounting bracket comes with quick release connections so operators can quickly access the removable hoppers for fast material changes and clean out.

Easy cleanout

The removable hoppers are quick and easy to remove and are designed with hinged lids for easy cleanout.

Wide range of settings

Each main 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). Each removable hopper uses a pivot valve for dosing additives and masterbatches.

Quick color changes

With no bolts or tools required, the removable hoppers are ideal for quick color or additive changes, reducing downtime.

Lightweight removable hoppers

The removable hoppers have an integrated dispense valve, eliminating material spillage and ensuring easy cleanout.

Batch size

The hoppers and augers are mounted above the weigh bin with a default 2.2 lb (1 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 – Regrind, 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 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.

Quick cleanout

A compressed air gun is provided for quick cleanout.

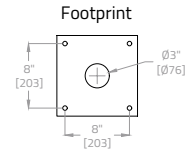
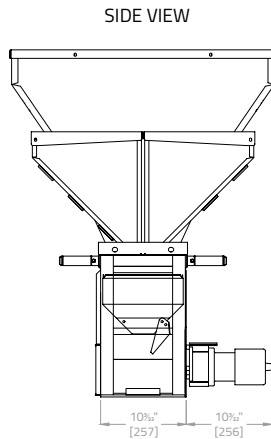
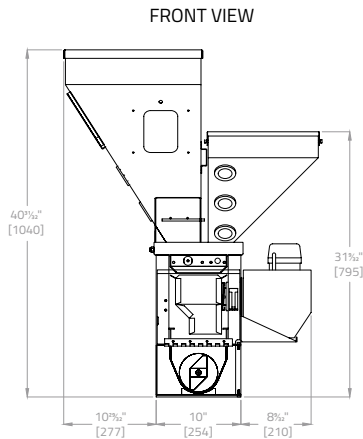
Controller

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

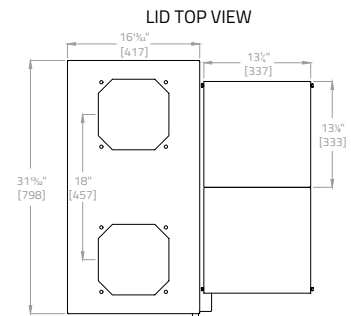


WSB 140R Gravimetric Blender Dimensions

Compartments 1 & 2 - 1.2 cu ft [34 Litres]
Compartments 3 & 4 - 0.5 cu ft [14 Litres]



STD WSB Bottom Plate
1/2" [6.4] Steel Plate



Technical data

Model WSB 140R	
Maximum Throughput*	148kg/h to 205kg/h 325lb/h to 450lb/h
Number of Materials	4
Material Dispense Systems	2 - 1.5"x 3" Slide gate 2 - 1" Pivot valve
Weight	86kg 190lb
Power Supply	120vac - 4.8 Amp 230vac - 2.5 Amp
Operating Air Pressure	4-6 Bar 60-90psi
Air Consumption	0.3 m³/hr 0.17cfm
Shipping Weight	102Kg 225lb
H x W x D	122 x 85 x 85cm 48 x 33.5 x 33.5in

*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 small processing machines
- Reduced weight and footprint
- Overall precision of ±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.

MAGUIRE WORLDWIDE DISTRIBUTION LOCATIONS

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Blend color or additives with extremely high precision

For injection molders and small extruders, this is one of the smallest machines in our range.

Wide range of settings

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).

Slide gate restrictor

For low percentage settings (1% - 4%) a slide gate restrictor (SGR-1) is recommended to restrict the opening of the gate by 50%. This reduces flow and enhances control.

100 series

As part of the WSB 100 series, the WSB 140 can each up to 475 lb/hr (210 kg/hr). The blender consists of 1 hopper with 4 material compartments.

Batch size

The hoppers are mounted above the weigh bin with a default 2.2 lb (1 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 – Regrind, 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

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Audible and visual alarms

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Reporting

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.

Integration

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

Quick cleanout

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Rapid color change

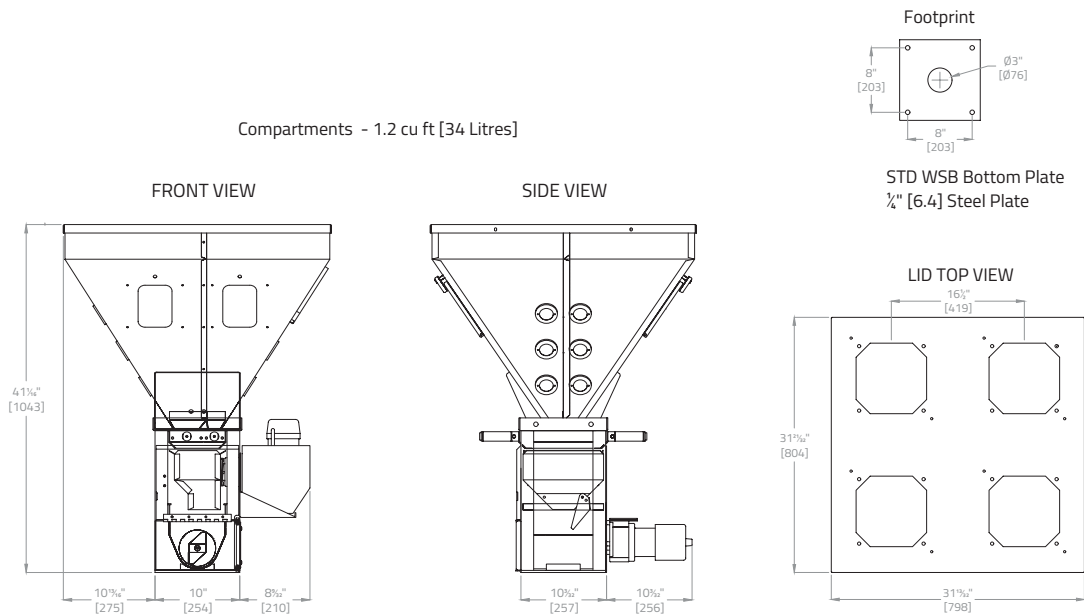
Easy access to all material contact surfaces of the machine including hoppers, weigh bin and mixing chamber allows for rapid color changes without the use of tools.

Controller

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WSB 140 Gravimetric Blender Dimensions



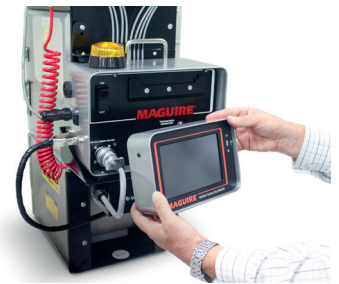
Technical data

Model WSB 140	
Maximum Throughput*	160kg/h to 210kg/h 350lb/h to 475lb/h
Number of Materials	4
Material Dispense Systems	2-1.5"x 3" Slide gate 2-1.5"x1.5" Slide gate
Weight	68Kg 150lb
Power Supply	120vac - 4.8 Amp 230vac - 2.5 Amp
Operating Air Pressure	4-6 Bar 60-90psi
Air Consumption	0.3 m ³ /hr 0.17cfm
Shipping Weight	102Kg 225lb
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