

Gravimetric Blenders

The Maguire Weigh Scale Blender™ (WSB) range of gravimetric batch blenders are for all plastics converting businesses, extrusion, injection and blow moulding applications.

3000 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.



Features and Benefits

- ▶ Base unit with multiple hopper/feeder configurations and choices
- ▶ Ideal for large processing machines
- ▶ Reduced weight and footprint
- ▶ Ideal specialist dosing designs for low density/poor flow materials like regrind, flake, wood flour
- ▶ Overall precision of $\pm 0.1\%$ of specified blend
- ▶ 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
- ▶ Wide choice of add on feeders for specialist dosing applications
- ▶ Vibration weighing management
- ▶ Improved documentation capabilities
- ▶ 5 year warranty

Operation

- ▶ Material dosed at 1-100% by stainless steel slide gate
- ▶ Slide Gate Restrictor (SGR-1) recommended on 1-4% dosing
- ▶ Default hopper size = 30000g batch size
- ▶ System tares weigh bin, then dispenses in sequence e.g. regrind, natural, colour and additive, weighing after each dispense
- ▶ Batch released to mixing chamber and mixed, with previous batch
- ▶ Sensor in upper mix chamber becomes covered, blender waits
- ▶ Material consumed, sensor uncovered, next batch cycle commences



Control

- ▶ 124 standard features and functions
- ▶ Continuous material calibration for accurate blend
- ▶ Controller updates flow rate every dispense for accuracy
- ▶ User friendly settings entry via thumbwheels or keypad
- ▶ Password protected keypad for security
- ▶ Alarm and strobe light with silence function, to alert to incomplete batch
- ▶ Setup and operation reports print direct to USB key
- ▶ Remote access and monitoring
- ▶ Integrates to other control or ERP systems



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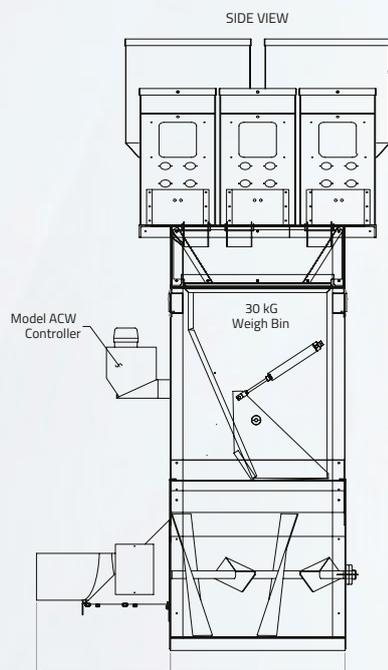
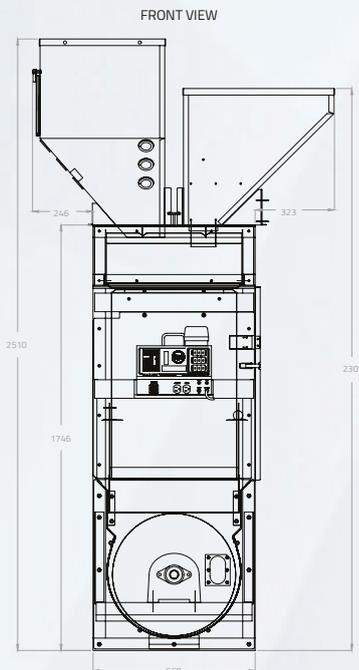
info@summitsystems.co.uk

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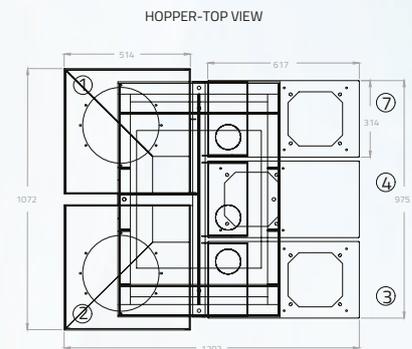
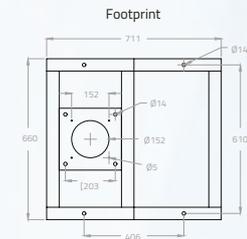
Gravimetric Blenders

3000 Series

Technical Data	WSB 3000
Maximum Throughput** (kg/h)	3000 to 3,900
** 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.	
Number of Materials	12
Material Dispense Systems (mm)	High flow corner valve 2" or 4" vertical valve 2", 3" or 4" dia auger feeder
Weight (kg)	340 - 650
Power Supply (A)	230/3/60 - 3.6 amp 480/3/60 - 1.8 amp 400/3/50 - 1.8 amp
Operating Air Pressure (bar)	6
Air Consumption (m3/h)	0.3
Shipping Weight (kg)	370 - 680
Height x Width x Depth (mm)	2000 x 1530 x 950



Compartments 1 & 2 - 4 cu ft [112 Litres]
Compartments 3,4,5 - 3 cu ft [84 Litres]



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info@summitsystems.co.uk

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