

**GRAVIMETRIC BATCH BLENDERS****WSB 100 and 100R Models****COST-EFFECTIVE  
GRAVIMETRIC  
BLENDING IN  
SMALL BATCHES**

Model  
WSB140R

WSB blenders are designed to be extremely accurate, efficient and simple to use. Then save you money by virtually eliminating color and additive waste and reducing changeover time.

The blender dispenses up to four materials by weight. A microprocessor-based control automatically calculates exact material weights from percentages entered on the thumbwheels, recalibrates itself every cycle and compensates for any error.

The pneumatic technology used on this blender means fewer electrical connections. Compressed air operates the mixer and all the valves.

**Throughputs up to 450 lbs an hour**

WSB 100 series models offer molders and extruders with small to medium sized processing equipment an affordable means to blend virgin, regrind, color and additives at the throat of the machine.

Up to four materials dispense separately from the hopper compartments into a single weigh chamber according to the percentage you set with a thumbwheel. Fast acting slide gates prevent unmixed material from passing through the mix chamber into a surge bin. Optional low level sensors monitor bin levels and alert the operator when material runs out.

You can choose between the standard four-position or optional 12-position control. Other options include floor stands, a flow control valve, remote control kits and a remote alarm output.

**■ EXTREME ACCURACY**

Colorant and additives ratios are held to within 1/2 of 1% of the requested ratio. Every batch is followed by error correction, if necessary, that continuously hunts toward perfect dispense weights of individual materials. Micro-pulsing valves enable precise measuring of small amounts (1 gram per second) of dispensed materials.

**■ EASY TO USE**

Set thumbwheel switches for desired mix percentages and turn the controller on. The unit does the rest. The system operates automatically dispensing the ingredients in the proper percentages and providing a homogenous blend in the mixing chamber.

**■ CONVENIENT, NO-TOOLS CLEAN OUT**

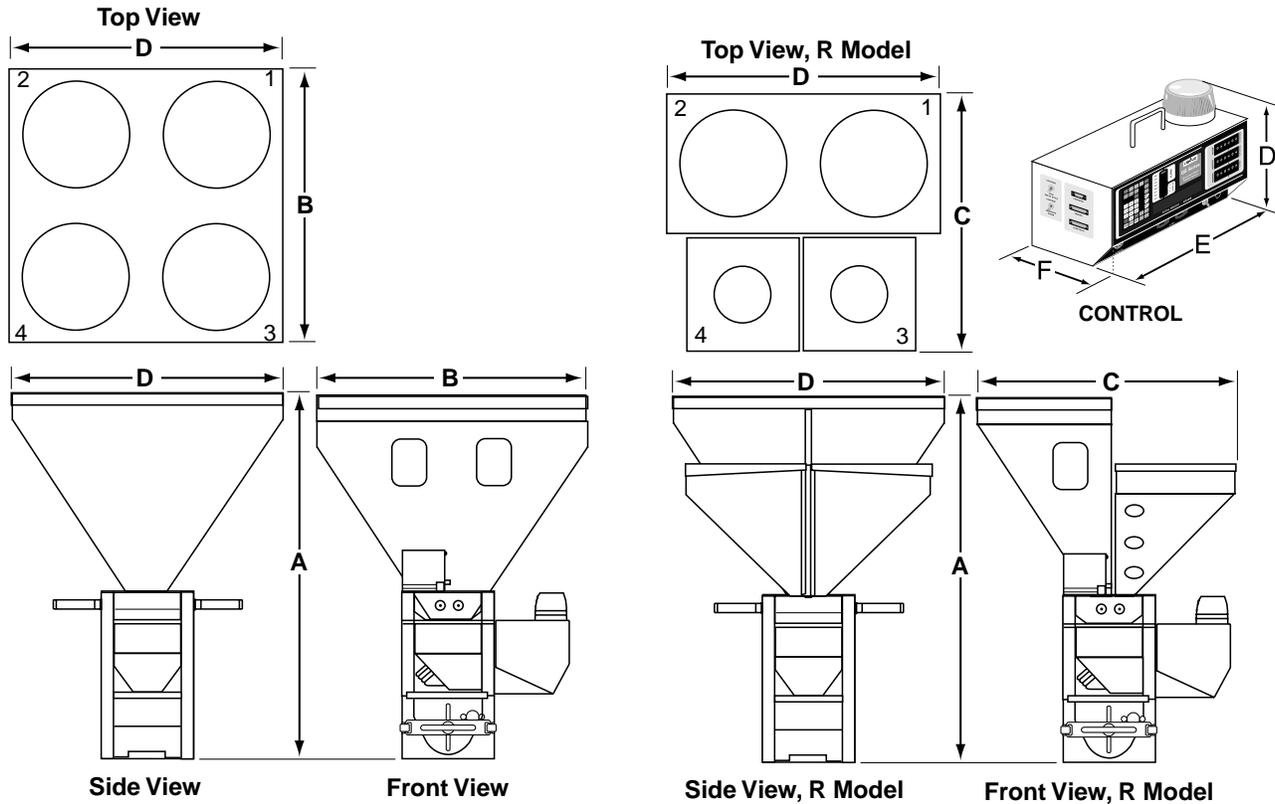
Weigh chamber, mix blades and mix chamber slide out for fast, easy cleaning. Removable minor ingredient bins (R models only) permit fast color or additive changes.

**■ FULLY SELF-CALIBRATING**

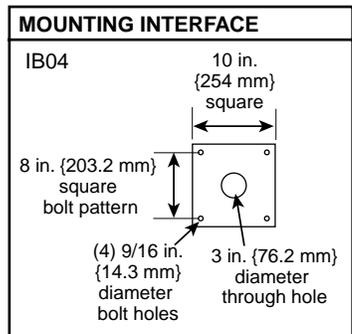
Automatically calibrates for material variations such as changes in bulk density, particle geometry, resin type and variations in dispense methods.

**SPECIFICATIONS**

**GRAVIMETRIC BATCH BLENDERS  
WSB 100 and 100R Models**



MODELS	WSB122	WSB131	WSB140
<b>Performance characteristics</b>			
Batch size lbs {g}	2.2 {1000}	2.2 {1000}	2.2 {1000}
Maximum throughput lbs/hr {kg/hr}*	200 {91}	280 {128}	450 {204}
Bin capacity - main ingredient ft <sup>3</sup> {liter}	1.0 {28.3}	1.0 {28.3}	1.0 {28.3}
Bin capacity - minor ingredient ft <sup>3</sup> {liter}	1.0 {28.3}	1.0 {28.3}	1.0 {28.3}
Maximum number of materials	4	4	4
Number of discharge valves	2	3	4
Number of micro pulsing valves	2	1	0
Number of bin compartments	4	4	4
Control software (# of components)	4 or 12	4 or 12	4 or 12
<b>Dimensions inches (mm)</b>			
A - Height above mounting plate†	38.9 {989.6}	38.9 {989.6}	38.9 {989.6}
B - Width	33.2 {843.3}	33.2 {843.3}	33.2 {843.3}
C - Width R (removable bins)	30.2 {766.3}	30.2 {766.3}	30.2 {766.3}
D - Depth	31.4 {797.6}	31.4 {797.6}	31.4 {797.6}
E - Controller height	11.25 {285.75}	11.25 {285.75}	11.25 {285.75}
F - Controller width	12.25 {311.15}	12.25 {311.15}	12.25 {311.15}
G - Controller depth	8.19 {208.03}	8.19 {208.03}	8.19 {208.03}
<b>Weight lbs {kg}</b>			
Installed	200 {90.7}	200 {90.7}	200 {90.7}
Shipping	300 {136.1}	300 {136.1}	300 {136.1}
<b>Voltage Total amps</b>			
120V/1 phase/50-60 hz	2.0	2.0	2.0
240V/1 phase/50-60 hz	1.0	1.0	1.0
<b>Compressed air requirements</b>			
Discharge valves	60 psi @ 0.2 ft <sup>3</sup> /min { 4.1 bars @ 0.09 liters/sec}; 1/4 in. NPT fitting		
Micro pulsing valves	60 psi @ 0.2 ft <sup>3</sup> /min { 4.1 bars @ 0.09 liters/sec}; 1/4 in. NPT fitting		



**SPECIFICATION NOTES:**

R model has removable bins with vertical valves. Removable bins can support an 8-inch loader or vacuum receiver. Stationary bins can support a 12-inch loader or vacuum receiver. Maximum throughput for a 140R model is 437 lb/hr {198.2 kg/hr}. Minor ingredient bin capacity is 0.7 ft<sup>3</sup> {19.8 liter}.

\* Throughput rates are based on bins with each micropulsing valve dispensing no more than 1% colorant and/or additive material.

† The optional flow control valve adds 3.5 in. {88.9 mm} to total height.

