

Accurate Gravimetric Blending with Removable Bins

Get accurate blends, better mixing, faster material changes and increased profits with Conair's TrueBlend™ Series Blenders. Steep-sided component hoppers allow material to flow evenly and freely through vertical dispense valves into the weigh chamber. Efficient mixing assures full integration of all recipe ingredients.

The fully-enclosed cabinet design assures no pellet spillage and clean operation. Standard convenient features such as wide access doors on each main material compartment, a hinged access door and removable components in the mixing chamber reduce downtime during cleanout.



Throughput Rates to 850 Pounds an Hour

The TrueBlend™ TB250R-4 Blender offers processors with medium-sized extruders or large tonnage injection molding machines a superior way to blend color and additives centrally or at the throat of the processing machine.

The blender dispenses up to four materials from respective material compartments into a common weigh chamber. The control determines the correct weight of each ingredient based on setpoints entered on the touch screen display. Up to 3000 recipes and 4000 resin names can be entered and stored in the control.

Unique fast-acting "no stick" vertical valves control the amount of material dispensed. All dispense valves use two-way air cylinders assuring positive operation.

Choose between throat mounted or central blender models. Options include an integrated loader control feature, a flow control valve for central blending applications and material compartment drain ports.

▶ Blend accuracy to 1/2 of 1%

Colorant and/or additive weights are held to within 0.5% of setting. A selectable Precision Additive™ feature is also available for additives. The microprocessor control automatically calibrates after every cycle and compensates for variations in dispense method, resin bulk density or particle geometry.

▶ Easy-to-use control

Intuitive 7-inch LCD touchscreen control with full color graphics allows quick and easy setup of blender setpoints. All setpoints are displayed simultaneously. Enter the percentages of the blend on the touchscreen display and the blender does the rest. The system automatically weighs the recipe ingredients in the proper sequence and maintains the correct blend relationship. Any position can be identified as one of the four material type selections adding flexibility to your application setup.



▶ Convenient, easy clean out

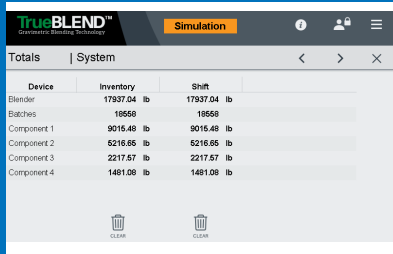
Easy access to all material contact points for fast and safe cleaning during color or resin changes. Quick access material compartment bins, a removable weigh bin, mix agitator and mix chamber allow quick efficient cleaning. The blender features a built-in manual material shut-off valve below the mixing chamber, this can be replaced with the automatic flow control valve for remote and central blending applications.



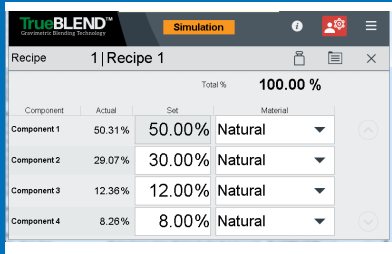
Features

Intuitive, SB-5 touchscreen control offers the industry's best multi-component accuracy

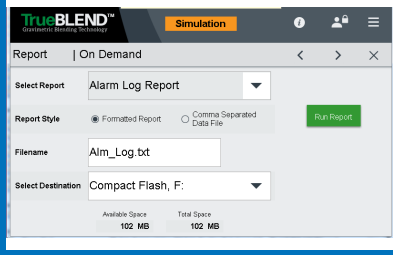
This easy-to-use touchscreen control allows for fast setup of blender setpoints and automatically weighs recipe ingredients in the proper sequence to maintain correct blend relationship. Any position can be identified as any of the four material type selections, adding flexibility to your application setup.



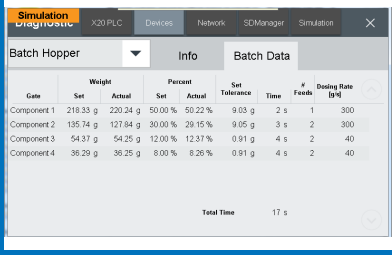
Instantly see your materials usage
Material usage / totals screen tracks the number of batches, weights dispensed by bin and weight dispensed in total since the last reset.



View and make changes to the active recipe
Save and recall up to 3000 recipes and 4000 resin names in the Recipe Book.



Built-in reporting
Every SB-5 Blender control is equipped with the capability to help users track their settings, alarms, material consumption, shift and inventory needs.



On-call diagnostics
Diagnostic screen displays target set point percentage and actual percentage dispensed. Also displays start and finish weights for each material per batch. Verifies true and accurate blend performance.

SmartBlend™ SB-5

Premium touchscreen control offers these high performance functions to target the unique process needs of molders and extruders.

- Best choice for the needs of rapidly changing custom jobs or sophisticated extrusion and molding applications with complex and highly critical recipes.
- Progressively approaches each ingredient target. Never overshoots. If setpoint is not met, remainder is recalculated to correct.

- Precision metering yields industry's best batch-to-batch accuracy.
- Precision ratio control - all components.
- Individual material accuracy settings.
- SMTP email message alarm notification capable.
- VNC viewer for displaying and using the control screen on a larger monitor.

Which package is right for you?

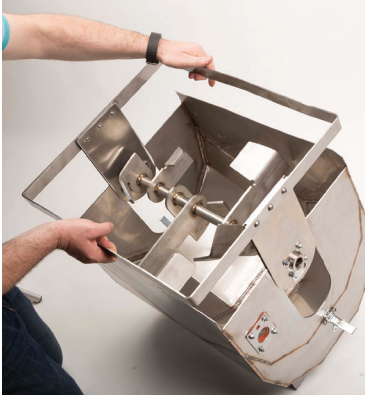
Standard Packages - 4 Component	TS	TE	LS†	LE‡
Features				
Material bin sight glasses and main bin clean out doors	•	•	•	•
Touchscreen control	•	•	•	•
Loading control option			•	•
Loader, pump and compressed air interconnection kit			•	•
Material bin finger guards	•		•	
Quick clean/enhanced flow option*		•		•
Machine mount with manual slide gate discharge†	•	•	•	•
Remote/bin mount with pneumatic slide gate discharge†	•	•	•	•

Feature Notes

- * Material bin door safety interlocks and drain ports.
 - † Choose between either machine or remote mounted blender packages.
 - ‡ Includes an optional integrated loader control feature.
- Specifications may change without notice. Consult with a Conair representative for the most current information.



Features



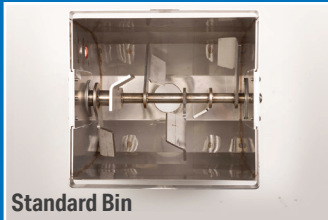
Simple and quick cleanout
 Mixing chamber and weigh bin are easily removed as single units, then the mix chamber comes apart for detailed cleaning. All with no tools in record time.

Optional floor stand with reservoir
 Provide blending beside the machine or remotely with a rugged, mobile floor stand, equipped with a blended material reservoir. Each blender stand features:

- Sturdy design
- Easy cleanout
- Fork-lift provisions
- Drawer magnet provision
- One standard material takeaway tube (up to two additional material tubes are available as options)
- Available with two or five cubic foot reservoir capacities



Options



Standard Bin



Tapered Bin

Standard bin or Tapered bin
 While the Standard mixing chamber is suitable for a wide variety of applications, the Tapered mixing chamber is ideal for critical application blends with material percentages less than 1%. The tapered design allows for improved mixing.



Material level alarm control
 Eliminate costly material shortage problems and machine downtime with this early warning system. The control monitors up to six material levels. Each sensor can be set as a high or low warning. See Level Alarm Control specification sheet.



Air blow-off for mix chamber level sensor
 This feature is integrated into the blender mix chamber to blow excessive dust and fines away from the mixing chamber sensor and ensure accurate level sensor reading.



Remote mixer demand sensor
 This sensor provides a fill-to level option in a surge bin or other material receptacle that sits below a remote mounted blender.



Remote HMI operator cable
 Place the TrueBlend control up to six meters away with convenient plug-in cable set.



Drain chute
 For fast, safe, thorough and simple blender draining prior to cleanout. The drain chute quickly installs over the blender front opening.

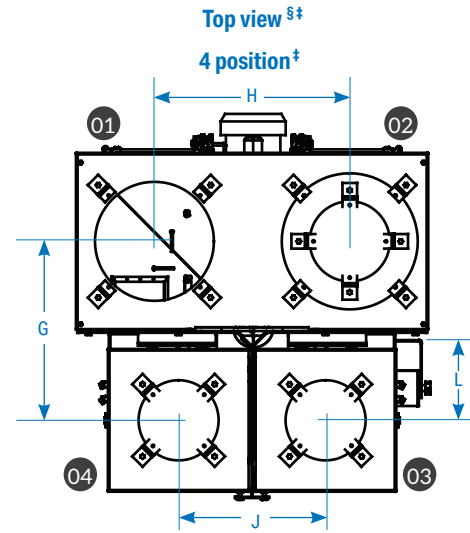
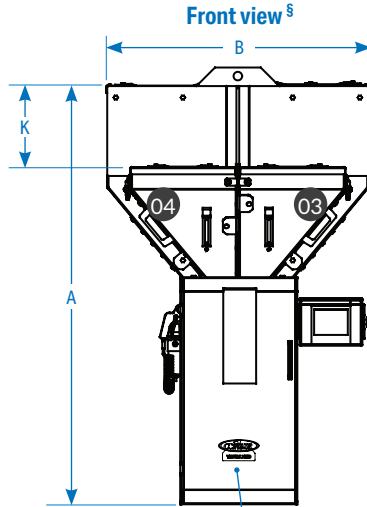
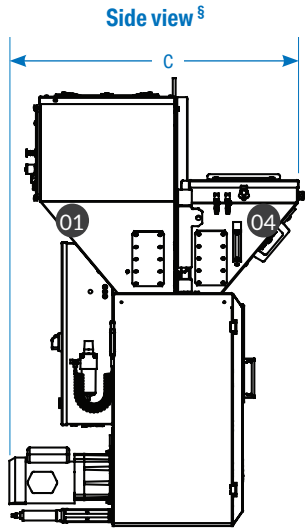


Major component flow restrictor
 Generally used when feeding more than two minor ingredients.

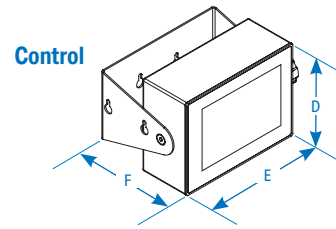


Minor component flow restrictor
 Generally used when feeding 1% or less of an ingredient.

Specifications



Drain chute
Purchase the **optional material drain chute** that readily installs to the chassis opening of the blender for fast and simple cleanout.



Models	TB250R-4
Performance characteristics	
Batch size lbs (g)	5.5 {2500}
Maximum throughput lbs/hr {kg/hr}*	850 {386}
Bin capacity - main ingredient ft ³ {liter}	1.6 {45}
Bin capacity - minor ingredient ft ³ {liter}	0.3 {8}
Maximum number of materials	4
Number of vertical discharge valves	4
Number - (size) of major valves	2 - {60 mm}
Number - (size) of minor valves	2 - {20 mm}
Dimensions inches (mm)	
A - Height above mounting plate†	57.75 {1467}
B - Hopper width and depth (square)	36.50 {926}
C - Depth	38.88 {988}
D - Control height	6.50 {165}
E - Control width	8.75 {222}
F - Control depth	6.75 {172}
G - Loader center distance	18.44 {468}
H - Loader center distance	20.13 {511}
I - Loader center distance	15.13 {388}
J - Loader center distance	11.25 {286}
K - Loader center distance	9.00 {229}
Approximate weight lbs {kg}	
Installed	280
Shipping	400
Voltage Full load amps **	
115V/1 phase/60 hz	6.3
230V/1 phase/50 hz	3.2
Compressed air requirements	
Discharge Valves	90 psi @ 0.2 ft ³ /min {6 bars @ 0.09 liters/sec}; 1/4 inch NPT fitting
Maximum loader sizes	
15-inch loaders - number of loaders	2
8-inch loaders - number of loaders	2

Application Notes Dimensions shown in inches and (mm).

Mixing chamber access door - this side of the interface

Mounting bolt hole size (8 holes) 9/16 inches {14.0 mm}.
Predrilled 8 x 8 and 12 x 12 mounting pattern as standard.

Specification Notes

- * Maximum throughput rates are based on 35 lb/ft³ pelletized material, using all standard valve sizes. Use of reducer inserts will lower the rate shown. Throughput rates are based on:
 - A 4-position blender recipe of 20% regrind, 80% natural, 3% color and 2% additive material.
- † The optional flow control valve will mount inside the chassis in the space of the manual slide valve. Conair recommends using the optional flow control valve when mounting the blender on a stand, surge bin or hopper.
- ‡ TB250R-4 hopper position two is supplied with a 12-8 adapter with an eight inch cover plate as standard. Position three and four are supplied with hand-fill lids.
- § Numbers in top view drawings represent hopper positions.

** FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

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