Accurate Gravimetric Blending for Central Blending

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 full access to the mixing chamber reduce downtime during cleanout.



Throughput Rates to 6000 Pounds an Hour

The TrueBlend™ TB1800 Series Blenders offer processors with large extruders or central blending applications a superior way to blend naturals, regrinds and additives centrally or at the throat of the processing machine.

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

Air solenoids and major electrical components are easy to access through the electrically interlocked main power box.

Choose between four, five or six component blender models. Options include an integrated blender/loader control feature, a flow control valve for central blending applications, material compartment drain ports, and ethernet communications.

▶ 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, no-tools clean out

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

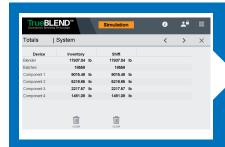


TB1800-4, TB1800-5 AND TB1800-6

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 one 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.

Which package is right for you?

Standard Packages - 4 Component	TS	TE	LS‡	LE#
Features				
Material bin sight glasses and clean out doors	•	•	•	•
Touchscreen control	•	•	•	•
Electrical material bin door interlocks	•	•	•	•
Loading control option			•	•
Loader, pump and compressed air interconnection kit			•	•
Quick clean/enhanced flow option*		•		•
Machine mount with manual slide gate discharge [†]	•	•	•	•
Remote/bin mount with pneumatic slide gate discharge [†]	•	•	•	•
Standard Packages - 5 Component	TS	TE	LS‡	LE#
Features				
Material bin sight glasses and clean out doors	•	•	•	•
Touchscreen control	•	•	•	•
Electrical material bin door interlocks	•	•	•	•
Loading control option			•	•
Loader, pump and compressed air interconnection kit			•	•
Quick clean/enhanced flow option*		•		•
Machine mount with manual slide gate discharge [†]	•	•	•	•
Remote/bin mount with pneumatic slide gate discharge [†]	•	•	•	•
Standard Packages - 6 Component	TS	TE	LS‡	LE#
Features				
Material bin sight glasses and 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.



TB1800-4, TB1800-5 AND TB1800-6

Features

Simple and quick cleanout

Easy access to all material contact points for fast and safe cleaning during color or resin changes. Material compartment access doors allow quick efficient cleaning.

Custom stands available

Each blender stand features:

- Application specific modular construction
- One or two level designs
- Designs to accommodate low overhead clearances

 Available in Conair beige with standard safety yellow handrails and optional ladders

Options



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 sensing device and ensure accurate level sensor reading.



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



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.



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 at one blender. Individual switches can be adjusted to monitor high or low material levels. See Level Alarm Control specification sheet.

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.

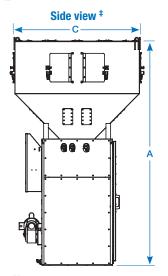


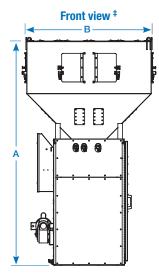
Top view ‡

Models

TB1800-4, TB1800-5 AND TB1800-6

Specifications

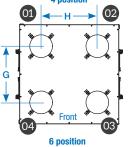


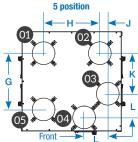


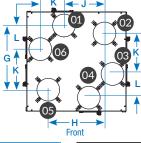
TB1800-4

Note: Side and front view drawings are shown for model TB1800-6. The bin positions change for a TB1800-4 and TB1800-5 models, see the top view.

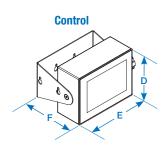
4 position







TB1800-6

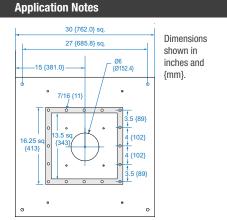


Performance characteristics				30 {762.0}
Batch size lbs {g} (grams or kilograms)		40 {18000}		27 (685.8)
Maximum throughput lbs/hr {kg/hr}*	6000 {2722}	5500 {2495}	4800 {2177}	1
Bin capacity - main ingredient ft3 {liter}		6 {170}		15 (381.0)
Bin capacity - minor ingredient ft ³ {liter}	6 {170}	4 {1	13}	
Maximum number of materials	4	5	6	° 7/16 {11}
Number (size) of major bin valves	4 (5X5)	3 (5X5)	2 (5X5)	
Number (size) of minor bin valves	0	2 (2X5)	4 (2X5)	
Dimensions inches (mm)				16.25 sq {343}
A - Height above mounting plate [†]		94.4 {2398}		{413}
B - Hopper width and depth (square)		53.0 {1346}		
C - Depth		53.0 {1346}		
D - Control height		6.50 {165}		
E - Control width		8.75 {222}		0
F - Control depth		6.75 {172}		
G - Loader center distance		30.00 {762}		Specification Not
H - Loader center distance		30.00 {762}		* Maximum throughput
J - Loader center distance	N/A	4.25	{108}	pelletized material, us

TB1800-5

TO Education distance	14//1	21.00 (0.10)			
L - Loader center distance	N/A	12.63 {321}			
Approximate weight lbs {kg}					
Installed	1465 {665}	1498 {679}	1532 {695}		
Shipping	1715 {778}	1748 {793}	1782 {808}		
Voltage Full load amps §					
220V/1 phase/50 hz		11.3			
220V/1 phase/60 hz	11.3				
240V/3 phase/60 hz	7.5				
400V/3 phase/50 hz	5.0				
480V/3 phase/60 hz	4.5				
575V/3 phase/60 hz	3.9				
Compressed air requirements					
	0.3 ft³/min @ 90 psi {6 bars @ 0.14 liters/sec}				

	3/8 inch NPT fitting					
Maximum loader sizes						
	4 DL25		3 DL25	2 DL15	2 DL25	4 DL15
	2 DL25	2 DL15	3 DL25	2 AR10	2 DL25	4 AR10
	2 DL25	2 AR10			4 DL20	2 DL15
	4 DL20				4 DL20	2 AR10



otes

ut 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 50% natural, 40% natural, 5% additive material and 5% additive material.
- A 5-position blender recipe of 50% natural, 20% natural, 20% natural, 5% additive material and 5% additive material.
- A 6-position blender recipe of 50% natural, 20% natural, 10% natural, 10% natural, 5% additive material and 5% 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.
- 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.

Specifications may change without notice. Consult with a Conair representative for the most current information.



K - Loader center distance

21.63 {549}