TRUEBLEND[™] TB100-4



ACCURATE GRAVIMETRIC BLENDING IN SMALL BATCHES

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 400 POUNDS AN HOUR

The TrueBlend TB100 series blenders offer small extruders and medium 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 1000 recipes and 250 resin names can be entered and stored in the processor.

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

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

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 5.7 inch LCD touch screen 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 touch screen 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, removable weigh bin, mix agitator and mix chamber liner allow quick efficient cleaning. The blender features a built-in material shutoff valve below the mixing chamber, this can be replaced with the automatic flow control valve for remote and central blending applications.



FEATURES

Intuitive, SB-2 touch screen control offers the industry's best multi-component accuracy

This easy-to-use touch screen 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



Built-in reporting capabilities

Every SB-2 blender control is equipped with the capability to help users track their settings, alarms, material consumption, shift and inventory needs.





View and make changes to the active recipe Save and recall up to 1000 recipes and 250 resin names in the Recipe Book.



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-2

Premium touch screen 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.
- Precision metering yields industry's best batch-to-batch accuracy.
- Precision ratio control all components.
- Individual material accuracy settings.
- SMS or text message alarm notification capable.
- VNC viewer

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	•	•	•	•
Touch screen control			٠	
Loading control option				
Loader, pump and compressed air interconnection kit				
Material bin finger guards	•		٠	
Quick clean/enhanced flow option*		٠		
Machine mount with manual slide gate discharge [†]				
Remote/bin mount with pneumatic slide gate discharge [†]	٠	•	٠	

FEATURE NOTES:

* Material bin door safety interlocks and drain ports.

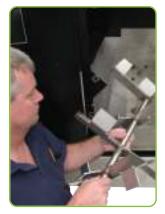
- [†] Choose between either machine or remote mounted blender packages.
- * Includes an optional integrated loader control feature.

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

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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, removable weigh bin, mix agitator and mix chamber liner allow quick efficient cleaning.



Blender installs easily to this floor stand, which is equipped with a 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

TB reports

Drain chute

and simple cleanout.

Used to track and document material usage, alarms, batch and shift reports and

and ControlWorks specification sheets.

Material level alarm control Eliminate costly material shortage problems and machine downtime with this

recipes. See TrueBlend Reporting Software

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.

The material drain chute readily installs to

the chassis opening of the blender for fast

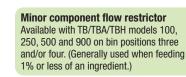








Major component flow restrictor Available with TB/TBA/TBH models 100, 250, 500 and 900 on bin positions one and/or two. (Generally used when feeding more than two minor ingredients.)













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 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.

TrueBlend high-heat models

Used to process high temperature plastics such as ABS, nylon, polycarbonate and PET resins. Available in medium tempera-ture (160° - 250°F {71° - 121°C}) TBA models and high temperature (250° -375°F {121° - 191°C}) TBH models. See TBA and TBH specification sheet.

Dry air blanket

This option blankets the material compartments and mixing chamber with hot dry air to prevent moisture regain during processing. Available on both the TBA and TBH models. See TBA and TBH specification sheet.

Remote HMI operator cable

This option is for the 6 meter cable in lieu of the standard 2 meter cable.



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SPECIFICATIONS

TRUEBLEND[™] TB100-4

CONAIR

Side view	Front view	Top view ^{§‡}
	Drain chute Purchase the optional material drain chute that readily installs to the chassis opening of the blender for fast and sim- ple cleanout.	Control Control Control Control Control Control Control Control
MODELS	TB100-4	
Performance characteristics		MOUNTING INTERFACE
Batch size lb {g}	2.2 {1000}	
Maximum throughput rate lb/hr {kg/hr}*	400 {181}	Dimensions shown in inches and
Bin capacity - main ingredient ft ³ {liter}	0.6 {17}	{mm}. Mixing chamber access door - this side of the interface.
Bin capacity - minor ingredient ft ³ {liter}	0.3 {8}	2-5/32 10-1/4 sq.
Maximum number of materials	4	diameter {260}
Number of vertical discharge valves	4	centered
Number/(size) of major bin valves	2 - (60 mm)	{55}
Number/(size) of minor bin valves	2 - (20 mm)	$\div \widehat{m}$
Dimensions inches {mm}		(2033) 8 sq.
A - Height above mounting plate [†]	45.25 {1149}	
B - Hopper width and depth (square)	30.25 {769}	
C - Depth	32.75 {832}	Mounting bolt hole size (4 holes) 9/16 in. {14.0 mm}.
D - Control height	6.50 {165.1}	Predrilled 8 x 8 mounting pattern as standard.
E - Control width	8.75 {222.3}	SPECIFICATION NOTES
F - Control depth	6.75 {171.5}	* Maximum throughput rates are based on 35 lb/ft3 pel-
G -Loader center distance	16.25 {412.8}	letized material, using all standard valve sizes. Use of
H - Loader center distance	15.50 {393.7}	reducer inserts will lower the rate shown.
I - Loader center distance	7.75 {196.9}	Throughput rates are based on:
J - Hopper height differential	6.00 {152.4}	• A 4-position blender recipe of 20% regrind,
Weight Ibs {kg}		80% natural, 3% color and 2% additive material.
Installed	160 {72}	[†] The optional flow control valve will mount inside the
Shipping	270 {122}	chassis in the space of the manual slide valve. Conair
Voltage total amps		recommends using the optional flow control valve when
115V/1 phase/60 hz	3.0	mounting the blender on a stand, surge bin or hopper.
230V/1 phase/50 hz	1.5	[‡] Hopper positions three and four are supplied with
Compressed air requirements		eight inch cover plates as standard.
Discharge valves	90 psi @ 0.2 ft³/min {6 bars @ 0.09 liters/sec}; 1/4 in. NPT fitting	[§] Numbers in top view drawings represent hopper positions.
Maximum loader sizes		Specifications may change without notice. Consult with a
8 inch loaders	Number of loaders - 2	Conair representative for the most current information.
12 inch loaders	Number of loaders - 2	
•		

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