

TRUEBLEND™ TB2500-4, TB2500-5 AND TB2500-6



Model TB2500-6
Shown with (3) DL20
and (4) DL20 vacuum
receivers.

ACCURATE GRAVIMETRIC BLENDING FOR HIGHER THROUGHPUTS

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 9000 POUNDS AN HOUR

The TrueBlend TB2500 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 touch screen display. Up to 1000 recipes and 250 resin names can be entered and stored in the control.

Air solenoids and major electrical components are easily accessed 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 micro-processor 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.



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FEATURES

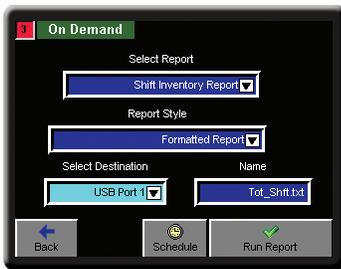
Intuitive, SB-2 touch screen control offers the industry’s best multi-component accuracy
 This easy-to-use touch screen control allows for fast setup of blender setpoints and automatically weighs recipe ingredients in the proper sequence to maintain correct blend relationship. Any position can be identified 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 dispensed in total since the last reset.



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



Built-in reporting
 Every SB-2 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 | ● | ● | ● | ● |
| Touch screen 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 | ● | ● | ● | ● |
| Touch screen 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 | ● | ● | ● | ● |
| Touch screen 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 [†] | ● | ● | ● | ● |



No pellet leakage.
 No material waste.
 Completely sealed chassis.

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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FEATURES

Simple and quick cleanout



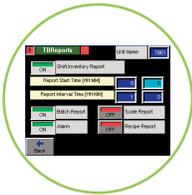
Easy access to all material contact points for fast and safe cleaning during color or resin changes. Material compartment access doors, removable weigh bin, mix agitator and mix chamber liner allow quick efficient cleaning.

Custom stands available

Custom-built blender stands offer:

- 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



TB reports
Used to track and document material usage, alarms, batch and shift reports and recipes. See *TrueBlend Reporting Software and ControlWorks specification sheets*.



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.



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*.



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.

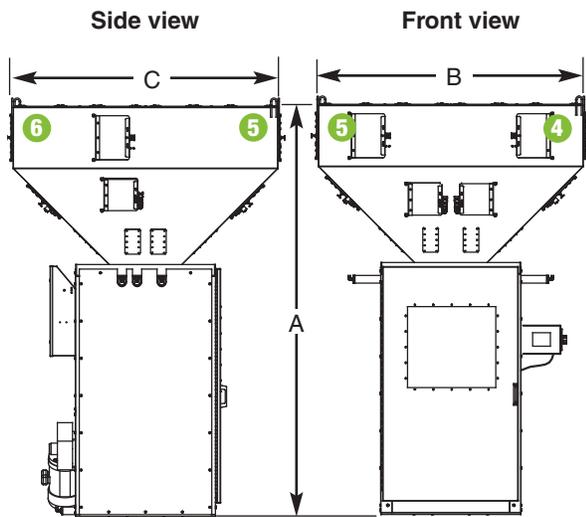


Remote HMI operator cable
This option is for the 6 meter cable in lieu of the standard 2 meter cable.

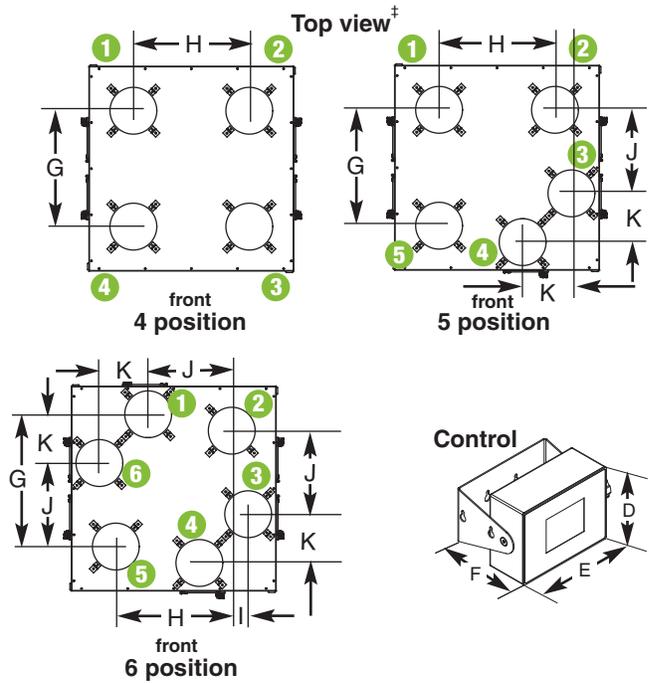


SPECIFICATIONS

TRUEBLEND™ TB2500-4, TB2500-5 AND TB2500-6



NOTE: Side and front view drawings are shown for model TB2500-6. The bin positions change for a TB2500-4 and TB2500-5 models, see the top view.



| MODELS | TB2500-4 | TB2500-5 | TB2500-6 |
|---|---|----------------|----------------|
| Performance characteristics | | | |
| Batch size lbs (g) (grams or kilograms) | 55 {25000} | 55 {25000} | 55 {25000} |
| Maximum throughput lbs/hr {kg/hr}* | 9000 {4082} | 8000 {3629} | 7000 {3175} |
| Bin capacity - main ingredient ft ³ {liter} | 10 {283} | 10 {283} | 10 {283} |
| Bin capacity - minor ingredient ft ³ {liter} | 10 {283} | 5 {142} | 5 {142} |
| Maximum number of materials | 4 | 5 | 6 |
| Number of major valves | 4 (6X6) | 3 (6X6) | 2 (6X6) |
| Number of minor valves | 0 | 2 (2X6) | 4 (2X6) |
| Dimensions inches {mm} | | | |
| A - Height above mounting plate† | 111.5 {2832.1} | 111.5 {2832.1} | 111.5 {2832.1} |
| B - Width | 72 {1828.0} | 72 {1828.0} | 72 {1828.0} |
| C - Depth | 72 {1828.0} | 72 {1828.0} | 72 {1828.0} |
| D - Control height | 6.50 {165.1} | 6.50 {165.1} | 6.50 {165.1} |
| E - Control width | 8.75 {222.3} | 8.75 {222.3} | 8.75 {222.3} |
| F - Control depth | 6.75 {171.5} | 6.75 {171.5} | 6.75 {171.5} |
| G - Loader center distance | 35.75 {908.1} | 35.75 {908.1} | 35.75 {908.1} |
| H - Loader center distance | 35.75 {908.1} | 35.75 {908.1} | 35.75 {908.1} |
| I - Loader center distance | NA | 10.5 {266.7} | 10.5 {266.7} |
| J - Loader center distance | NA | 26.13 {663.6} | 26.13 {663.6} |
| K - Loader center distance | NA | 20.0 {508.0} | 20.0 {508.0} |
| Weight lbs {kg} | | | |
| Installed | 2483 {1126} | 2531 {1148} | 2580 {1170} |
| Shipping | 2783 {1262} | 2831 {1080} | 2880 {1306} |
| Voltage total amps | | | |
| 240V/3 phase/60 hz | 10.3 | 10.3 | 10.3 |
| 400V/3 phase/50 hz | 7.7 | 7.7 | 7.7 |
| 480V/3 phase/60 hz | 6.4 | 6.4 | 6.4 |
| 575V/3 phase/60 hz | 5.6 | 5.6 | 5.6 |
| Compressed air requirements | | | |
| | 0.3 ft ³ /min @ 90 psi {6 bars @ 0.14 liters/sec} 3/8 in. NPT fitting | | |
| Maximum loader sizes | | | |
| Number of 25 inch loaders | 4 | 5 | 6 |

MOUNTING INTERFACE

Dimensions shown in inches and (mm).

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 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.

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