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. Quick access material compartment bins, a 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 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 capabilities**

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.

**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?**

<table>
<thead>
<tr>
<th>STANDARD PACKAGES- 4 Component</th>
<th>TS</th>
<th>TE</th>
<th>LS</th>
<th>LE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material bin sight glasses and main bin clean out doors</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Touch screen control</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Loading control option</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Loader, pump and compressed air interconnection kit</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Material bin finger guards</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Quick clean/enhanced flow option*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Machine mount with manual slide gate discharge †</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Remote/bin mount with pneumatic slide gate discharge †</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**FEATURE NOTES:**

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

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

Optional floor stand design
Blender installs easily to this floor stand, which is equipped with a material stand. 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
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.

Drain chute
The material drain chute readily installs to the chassis opening of the blender for fast and simple cleanout.

TrueBlend high-heat models
Used to process high temperature plastics such as ABS, nylon, polycarbonate and PET resins. Available in medium temperature (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.

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.)

Minor component flow restrictor
Available with TB/TBA/TBH models 100, 250, 500 and 900 on bin positions three and/or four. (Generally used when feeding 1% or less of an ingredient.)

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**SPECIFICATIONS**

**TRUEBLEND™ TB100-4**

- **Top view**
- **Front view**
- **Side view**

### MODELS

<table>
<thead>
<tr>
<th>Performance Characteristics</th>
<th>TB100-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Batch size</strong> lb (g)</td>
<td>2.2 (1000)</td>
</tr>
<tr>
<td><strong>Maximum throughput rate</strong> lb/hr (kg/hr)*</td>
<td>400 (181)</td>
</tr>
<tr>
<td><strong>Bin capacity - main ingredient</strong> ft³ (liter)</td>
<td>0.6 (17)</td>
</tr>
<tr>
<td><strong>Bin capacity - minor ingredient</strong> ft³ (liter)</td>
<td>0.3 (8)</td>
</tr>
<tr>
<td><strong>Maximum number of materials</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Number of vertical discharge valves</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Number/(size) of major bin valves</strong></td>
<td>2 - (60 mm)</td>
</tr>
<tr>
<td><strong>Number/(size) of minor bin valves</strong></td>
<td>2 - (60 mm)</td>
</tr>
</tbody>
</table>

### Dimensions inches (mm)

| A - Height above mounting plate † | 45.25 (1149) |
| B - Width                         | 30.25 (769) |
| C - Depth                         | 32.75 (832) |
| D - Control height                | 6.50 (165.1) |
| E - Control width                 | 8.75 (222.3) |
| F - Control depth                 | 6.75 (171.5) |
| G - Loader center distance        | 16.25 (412.8) |
| H - Loader center distance        | 15.50 (393.7) |
| I - Loader center distance        | 7.75 (196.9) |
| J - Hopper height differential    | 6.00 (152.4) |

### Weight lbs (kg)

| Installed                       | 160 (72) |
| Shipping                        | 270 (122) |

### Voltage total amps

| 115V/1 phase/60 Hz              | 3.0 |
| 230V/1 phase/50 Hz              | 1.5 |

### Compressed air requirements

- **Discharge valves**
  - 90 psi @ 0.2 ft³/min (6 bars @ 0.09 liters/sec); 1/4 in. NPT fitting

### Maximum loader sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of loaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 inch</td>
<td>12 inch</td>
</tr>
<tr>
<td>10</td>
<td>Number of loaders - 2</td>
</tr>
<tr>
<td>12</td>
<td>Number of loaders - 2</td>
</tr>
</tbody>
</table>

---

**MOUNTING INTERFACE**

Dimensions shown in inches and (mm).

- **Mixing chamber access door**
  - 2-5/32 diameter centered (55)
  - 10-1/4 sq. (260)

Mounting bolt hole size (4 holes) 9/16 inch (14.0 mm).
Predrilled 8 x 8 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. Milacron recommends using the optional flow control valve when mounting the blender on a stand, sure bin or hopper.

‡ Hopper positions three and four are supplied with eight inch cover plates as standard.

§ Numbers in top view drawings represent hopper positions.

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