

GUARDIAN® Series 3

Gravimetric Batch Blender

Standard Features

**All-in-one Removable Metering Unit and
Material Hopper**

**Improved Material Hopper for
Clean-Out Convenience**

Cartridge Style Metering Gates

Integral Surge Hopper Option

Stationary Loading Platform

**Quick-Release Polycarbonate
Mixer Access Doors**

All Stainless Steel Construction



The Guardian® Series 3 gravimetric batch blender was developed for processors who want the simplicity of operation combined with the most accurate dispensing and superior blend homogeneity at a low cost. For these customers, Process Control designed the Guardian® Series 3.

The 1kg and 2kg blenders in the Guardian® Series 3 family has been made with all-in-one removable metering unit and material hoppers to hold each of the ingredients. Both sizes can be supplied with up to four separate ingredient hoppers as standard.

The outlet of each of the individual material hoppers is equipped with a fast acting V-gate valve. Each of the materials are dispensed sequentially into a common weighing hopper in the desired proportions. The weighed materials are then released into a separate mixing chamber which provides the most consistent homogenous blend of any batch type blender.

Process Control engineers have developed a highly advanced dispensing and weighing system that accurately controls each ingredient of every batch to the desired amounts and is not averaged over multiple batches as is common in other batch blenders in the industry. At the blender's highest setting, each ingredient can be dispensed to an accuracy of $\pm 0.02\%$

In addition to precise batch-to-batch dispensing, the performance of the mixer is just as critical to the end product. The mixer actually determines how uniform the blend will be. Inadequate mixing can lead to inconsistent product characteristics such as color variations or other imperfections.

The all stainless steel construction of the Guardian® Series 3 blenders has been greatly reduced of nooks and crevices making color changes quick and easy and wipe down snag-free.



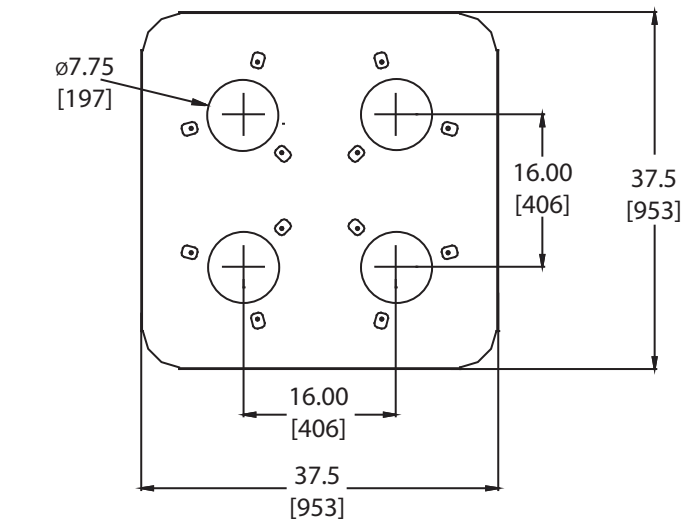
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1.0kg Dimensions

Guardian® Series 3 Blender



Maximum Throughput Rates

2-Element: 400 PPH*

3-Element: 400 PPH*

4-Element: 400 PPH*

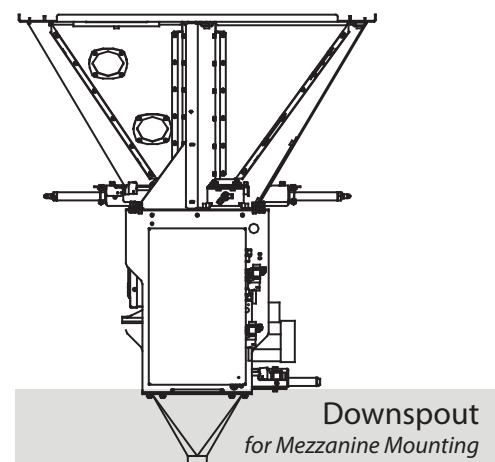
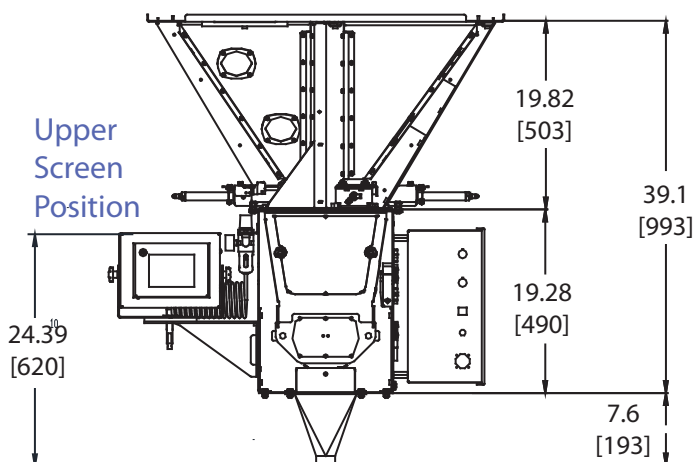
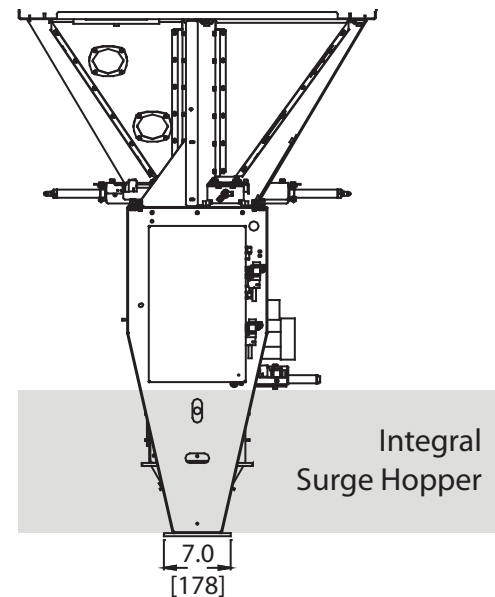
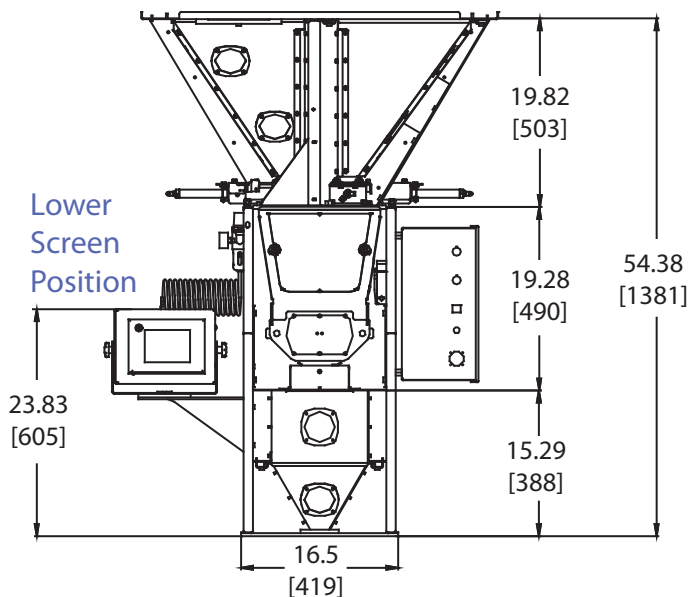
* Depending on Materials, Mix Time & Accuracy Setting

Power

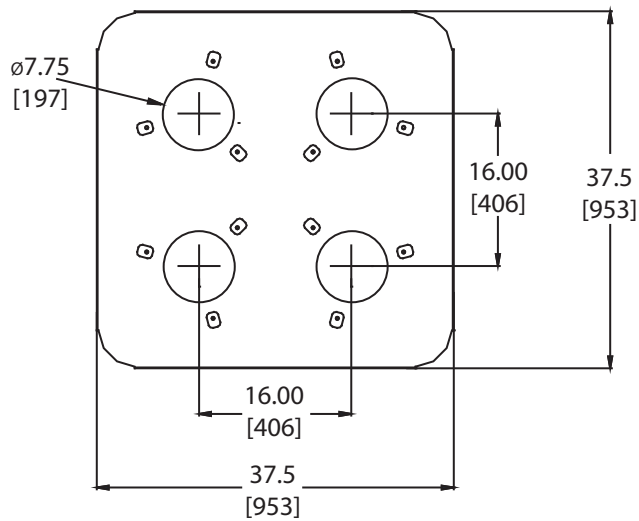
115V/1Ph/60Hz or

230V/1Ph/50Hz

[] Dimensions are in mm
Approx Shipping Weight: 350lbs



2.0kg Dimensions Guardian® Series 3 Blender



Maximum Throughput Rates

2-Element: 800 PPH *

3-Element: 800 PPH *

4-Element: 800 PPH *

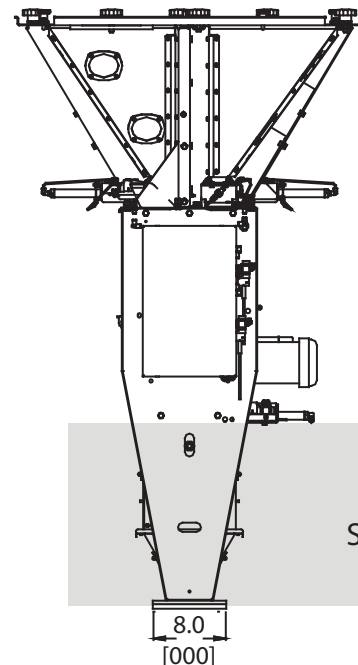
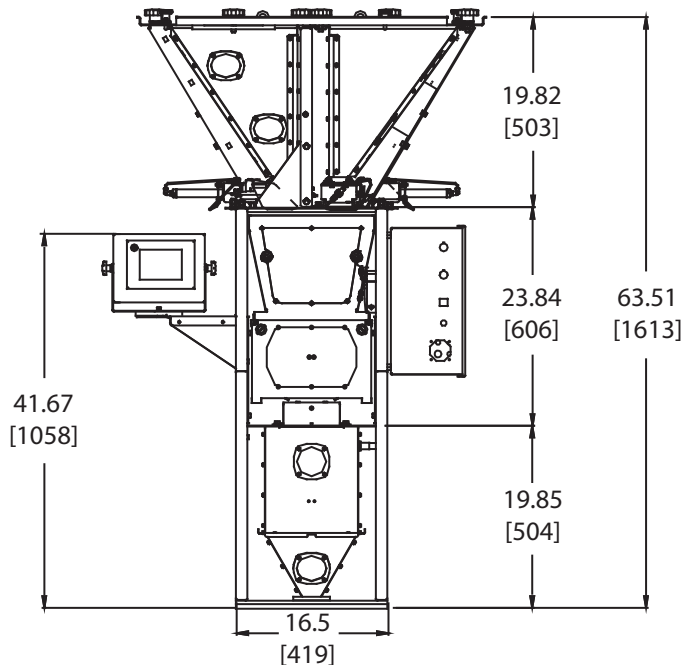
* Depending on Materials, Mix Time
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Power

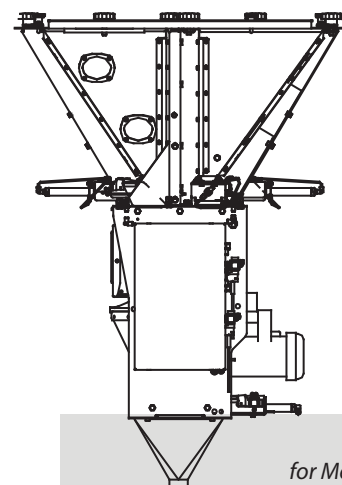
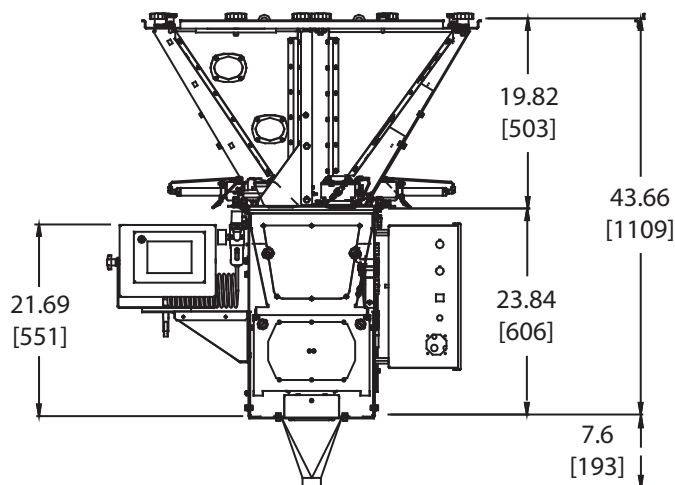
115V/1Ph/60Hz or

230V/1Ph/50Hz

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Integral
Surge Hopper



Downspout
for Mezzanine Mounting

Optional Accessories/Features

- Integral pickup box with aspirated pickups
- Integral weighed surge hopper for extruder output monitoring
- Ceramic or rare earth magnet in outlet hopper
- Stand for gaylord filling
- Self loading control
- Blend Manager software
- Remote mounting operator panel



Remote VNC Viewer



Magnet Option

Blend Manager

Blend Manager is an integrated real-time trending, material management, and monitoring program. A simple, easy to use wizard guides the user through setup and programming which are then stored seamlessly in SQL databases.

