GUARDIAN® Series 2

12kg Gravimetric Blenders

Standard Features

Each hopper has one 90° side and no transition sections for improved material flow.

Hopper access doors with redesigned latching system.

Detached weigh hopper discharge gate actuator for improved performance.

Removable cartridge style dispensing gates for ease of maintenance and clean out.

Optimized V-design metering gates for improved accuracy and dispensing range.

Color touch screen operator interface.

The Guardian® Series 2 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 2.

The 12kg blender in the Guardian® Series 2 family has been made with redesigned material hoppers to hold each of the ingredients. The 12kg can be supplied with up to twelve 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 blenders highest setting, each ingredient can be dispensed to an accuracy of +/- 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 Guardian® Series 2 blenders have incorporated a built in clean-out system in the design. With a pull-out drain chute and separate manual slide-gate controls, the blender can be cleaned-out quickly and easily during product changeovers.

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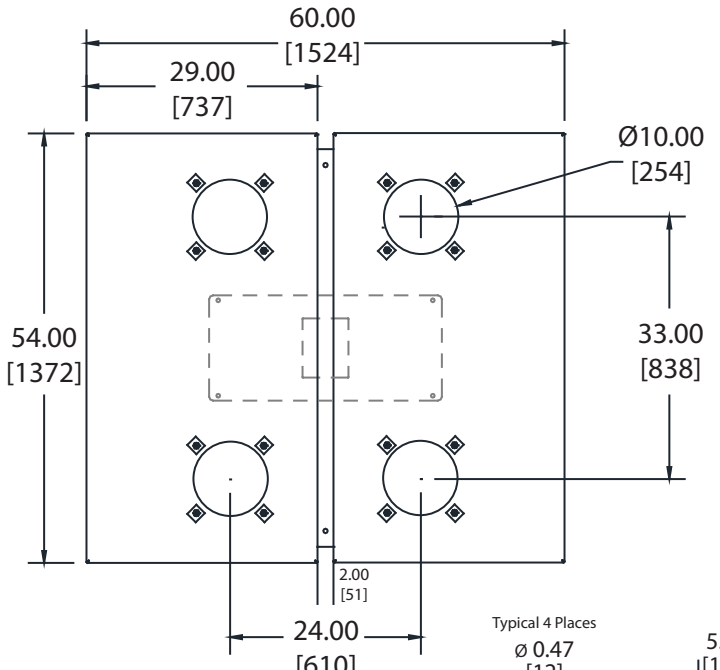
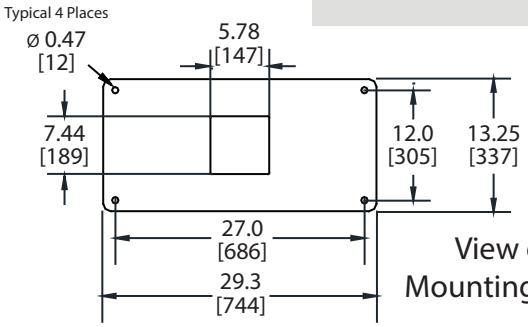
4 Element, 12kg Guardian® Series 2 Blender



Top View



View of Mounting Plate

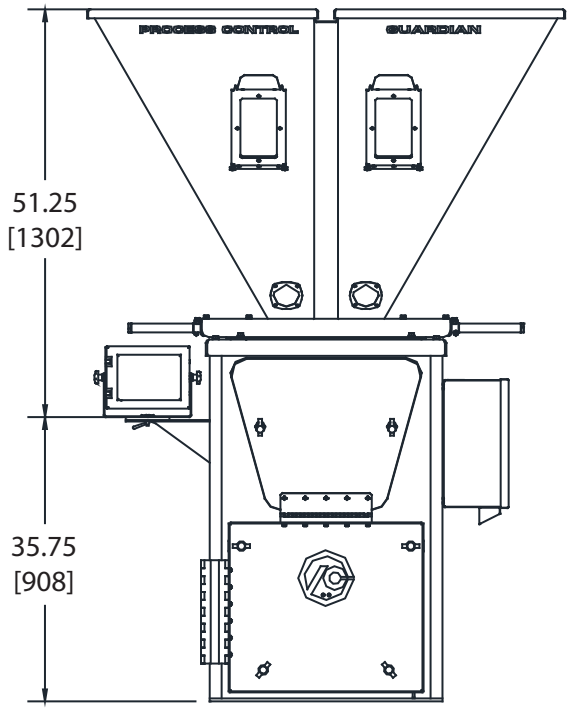
Maximum Throughput Rates

2-Element: 4800 PPH*
3-Element: 4000 PPH*
4-Element: 3000 PPH*
*Depending on Materials, Mix Time & Accuracy Setting

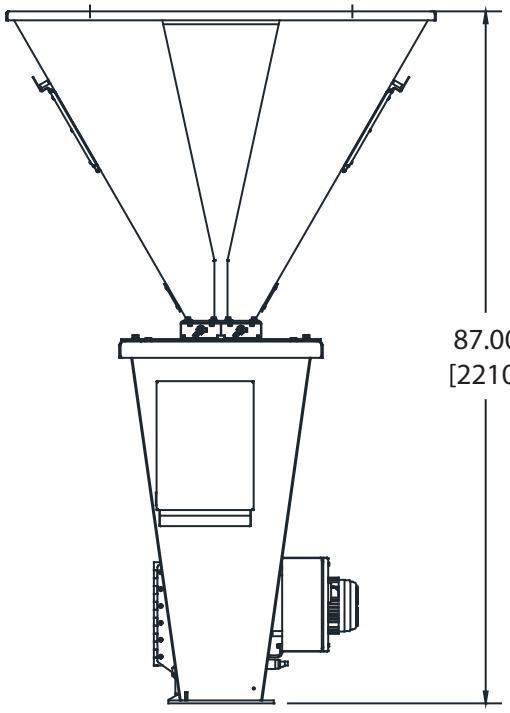
Power

460V/3Ph/60Hz for mixer motor
115V/1Ph/60Hz for controls
or
400V/3P/50Hz for mixer motor
230V/1Ph/50Hz for controls

[ ] Dimensions are in mm
Approx Shipping Weight: 700lbs

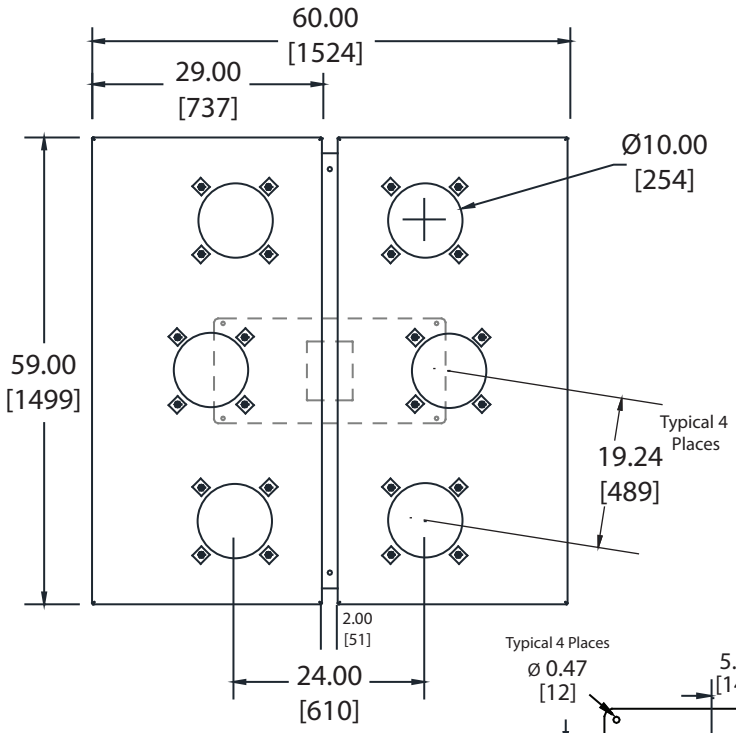


Front View

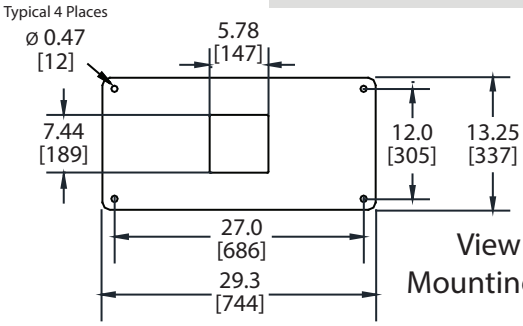


Side View

6 Element, 12kg Guardian® Series 2 Blender



Top View



View of Mounting Plate

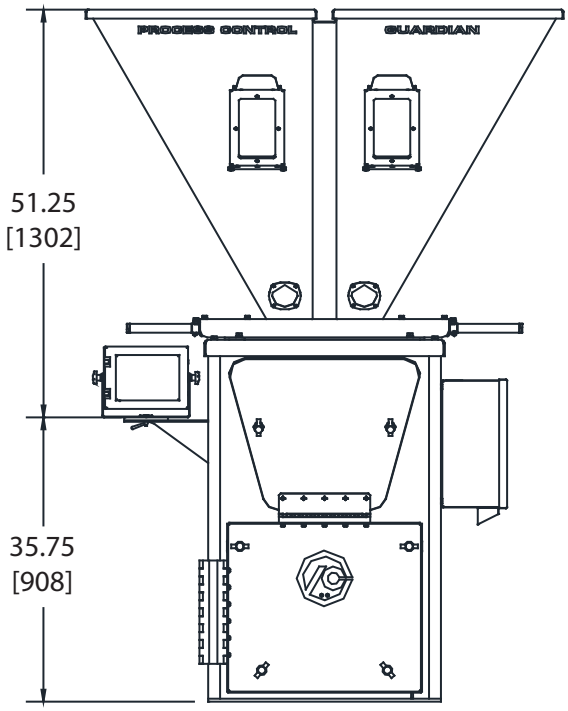
Maximum Throughput Rates

5-Element: 2900 PPH*
6-Element: 2800 PPH*
*Depending on Materials, Mix Time & Accuracy Setting

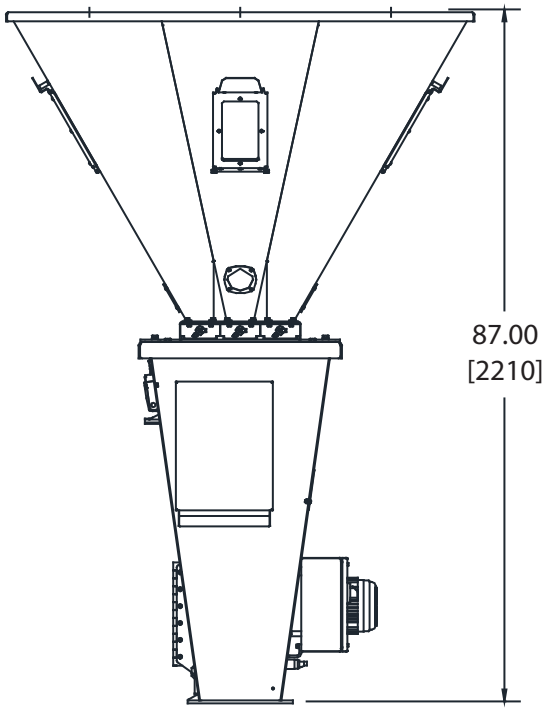
Power

460V/3Ph/60Hz for mixer motor
115V/1Ph/60Hz for controls
or
400V/3P/50Hz for mixer motor
230V/1Ph/50Hz for controls

[ ] Dimensions are in mm
Approx Shipping Weight: 700lbs

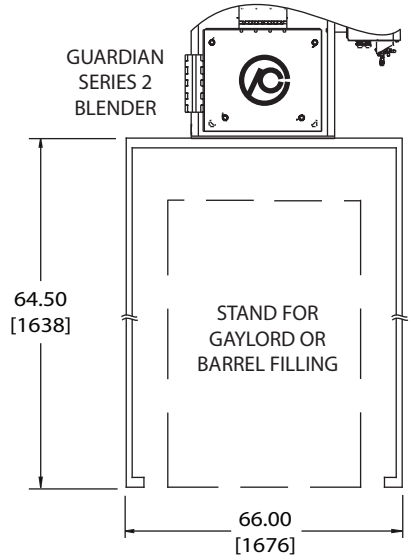


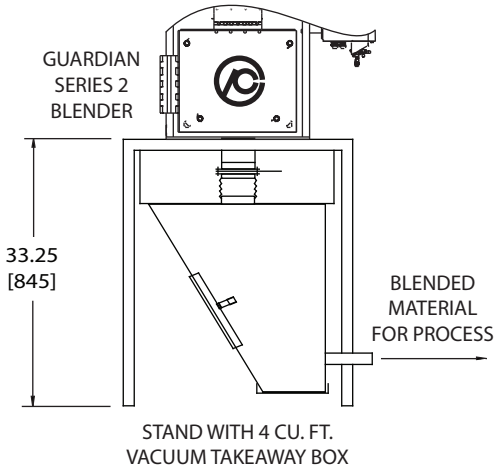
Front View

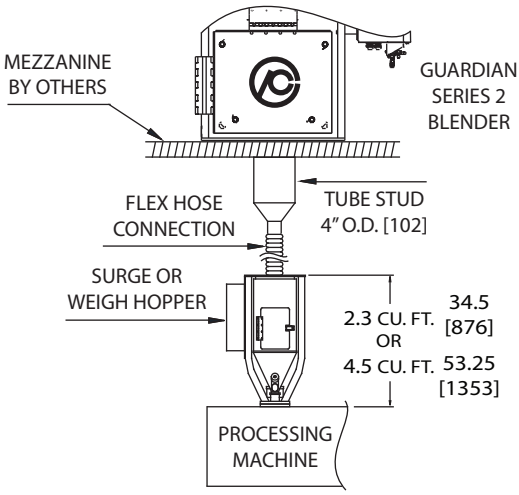


Side View

12kg Guardian® Series 2 Blender
Optional Accesories







[ ] dimensions are in mm

Optional Features

- Dispensing gate restrictor plate for very low rate ingredients
- Integral extruder and linespeed control modules for mono-extrusion
- Extended cables for remote mounting touch-screen operator control panel
- Low level proximity sensor for material hoppers
- Drain with butterfly valve for material hoppers
- Regrind or Powder Feeder Elements
- Special Electricals
- Special Paint
- Blend Manager software
- Self-Loading Controls
- Up to 12 elements for 12kg
- For higher throughputs, see specification sheet for 18kg and 25kg Guardian® Series 2 Gravimetric Blenders