

# Guardian® Series

## 5kg & 12kg Gravimetric Batch Blenders



*The Guardian® Series: (Shown above is a 5 kg, 4-element unit)*

The Guardian® Series gravimetric batch blender was developed for plastic processors who want the simplicity of operation combined with the most accurate metering and superior blend homogeneity at a low cost. For these customers, Process Control designed the Guardian® Blender Series backed by over 35 years of Process Control's experience and design expertise.

The blenders in the 5kg and 12kg Guardian® Series have been designed with segmented material hoppers to hold each of the ingredients. The 5kg Guardian® Series can be supplied with up to eight separate ingredient hoppers as standard with the 12kg going to as many as twelve separate material hoppers. 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 homogeneous blend of any batch type blender.

Process Control engineers have produced a highly advanced metering and weighing system that accurately controls every 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 accuracy setting, each ingredient can be metered to an accuracy of +/- 0.02%.

In addition to precise batch-to-batch metering, the performance of the mixer is just as critical to the end product. The mixer actually determines how uniform the blend will be. Process Control has spent many years of research and testing in developing the most thorough homogeneous mixer in the industry. Inadequate mixing can lead to inconsistent product characteristics such as color variations or other imperfections.

The Guardian® Series blenders also have incorporated in the design a built in clean-out system. With a pull-out drain chute and separate manual slide-gate controls, the blender can be cleaned-out quickly and easily during product change-overs.

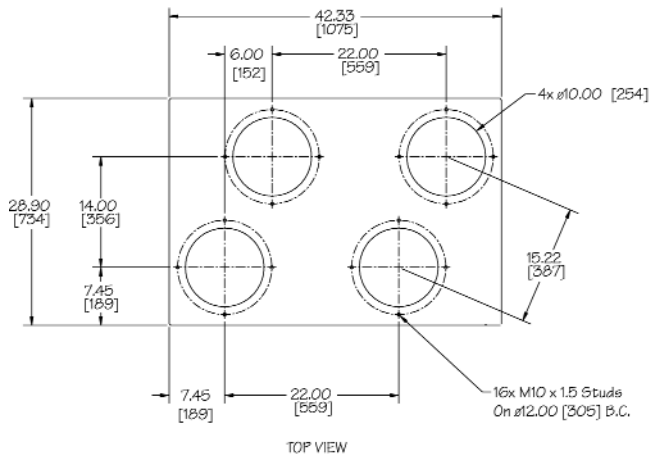
With the addition of the optional PCCWeb® software, the Guardian® blender can be remotely monitored and controlled from any standard PC equipped with an Internet web browser. Using an Ethernet port on the back of each mini-operator control panel, each blender can be connected into an internal network hub and then accessed by any computer within the network system.

Combining highly accurate metering and thorough blend homogenization in an easy-to-operate package, the Guardian® Series gravimetric batch blender is an excellent choice for the cost-conscious processors.

### Standard Features

- Integral loading platform for mounting vacuum receivers
- Attached air hose & nozzle for cleaning
- Support for a wide variety of communications protocols

# 4 Element, 5 KG Guardian Blender



**Maximum Throughput Ranges:**

**2-Element: 1042-2475 PPH\***

**3-Element: 966-1886 PPH\***

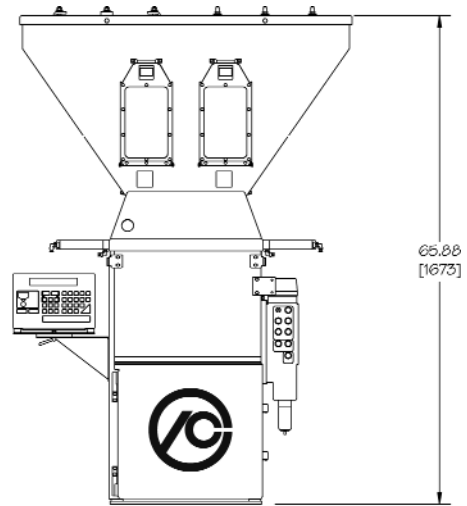
**4-Element: 707-1523 PPH\***

**\* Depending on Accuracy Setting**

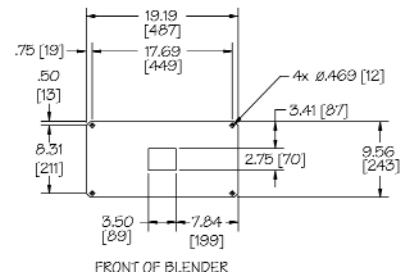
Power: 115V/1PH/60Hz or 230V/1PH/50Hz

[ ] dimensions are in mm

Approximate shipping weight=550 Lbs.

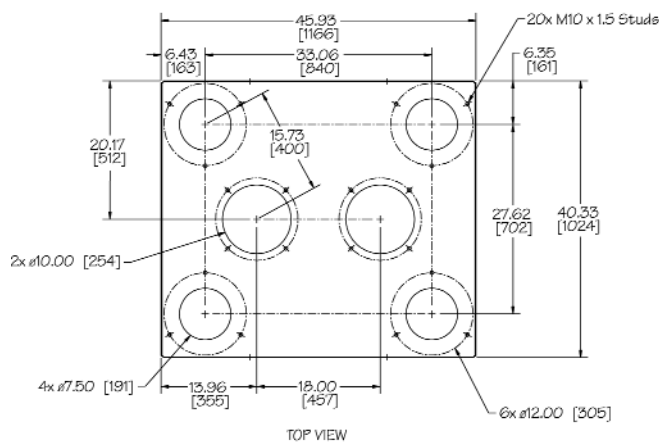


VIEW OF MOUNTING PLATE



FRONT OF BLENDER

# 6 Element, 5 KG Guardian Blender



**Maximum Throughput Ranges:**

**5-Element: 558-1277 PPH\***

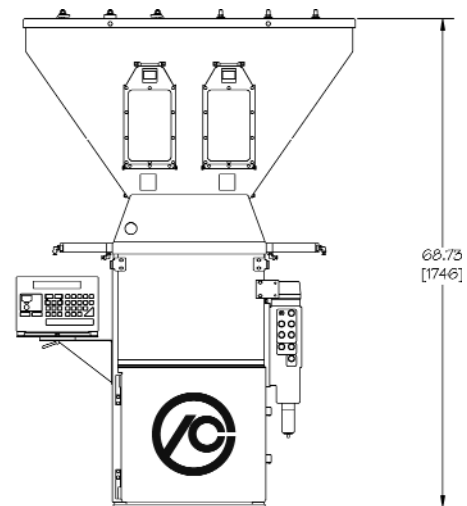
**6-Element: 460-1100 PPH\***

**\* Depending on Accuracy Setting**

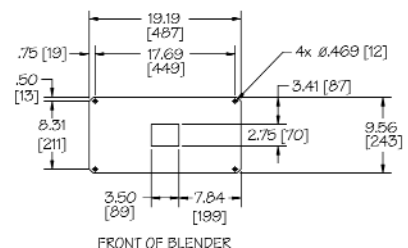
Power: 115V/1PH/60Hz or 230V/1PH/50Hz

[ ] dimensions are in mm

Approximate shipping weight=600 Lbs.

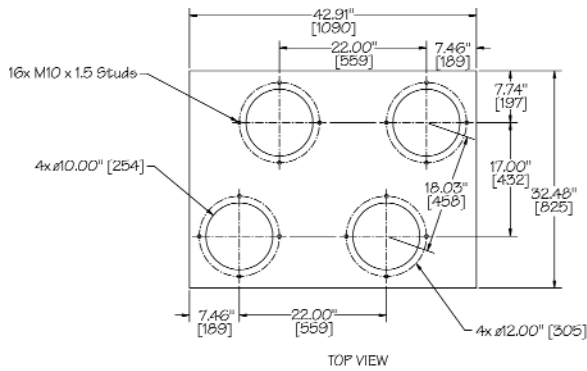


VIEW OF MOUNTING PLATE



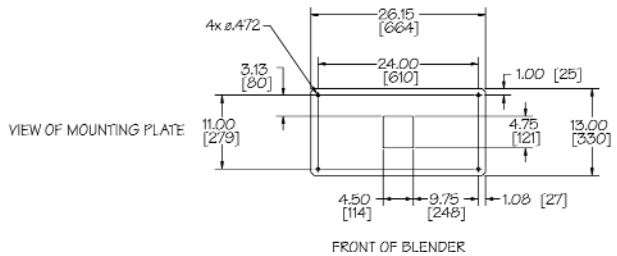
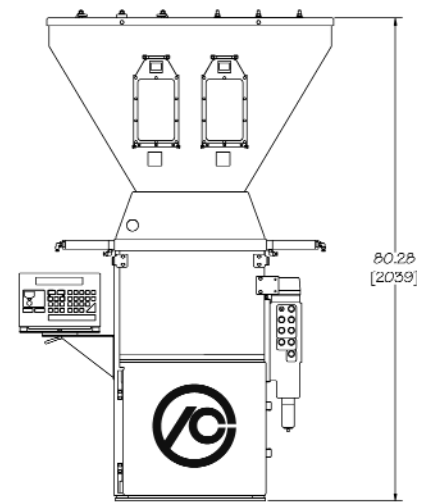
FRONT OF BLENDER

# 4 Element, 12 KG Guardian Blender

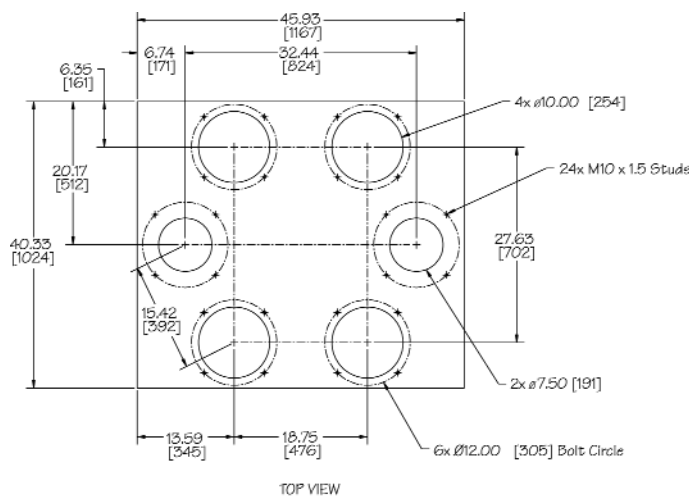


**Maximum Throughput Ranges:**  
 2-Element: 2501-5940 PPH\*  
 3-Element: 2318-4526 PPH\*  
 4-Element: 1697-3655 PPH\*  
 \* Depending on Accuracy Setting

Power: 460V/3PH/60Hz or 380V/3PH/50Hz  
 [ ] dimensions are in mm  
 Approximate shipping weight=650 Lbs.

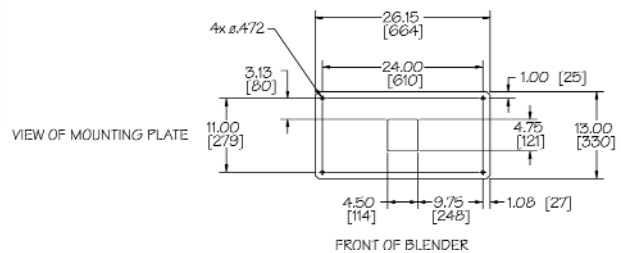
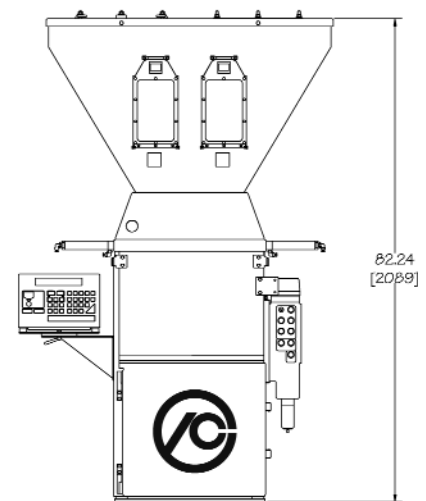


# 6 Element, 12 KG Guardian Blender

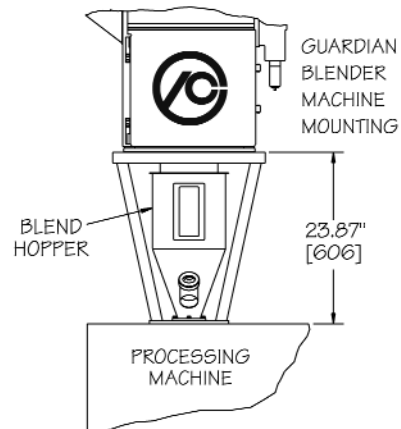
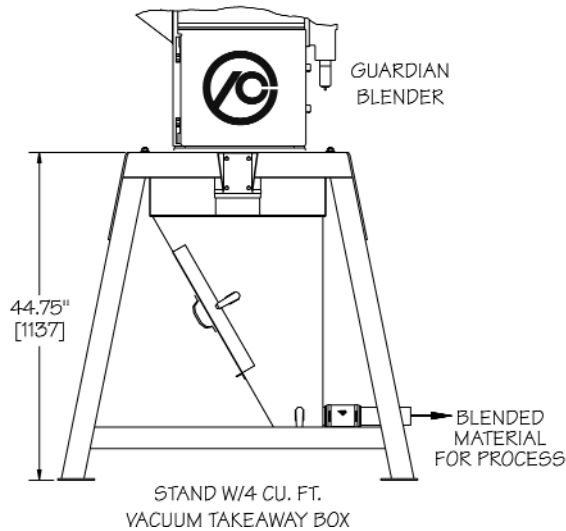
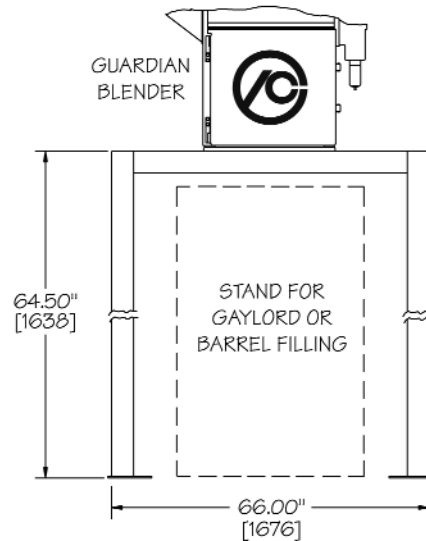
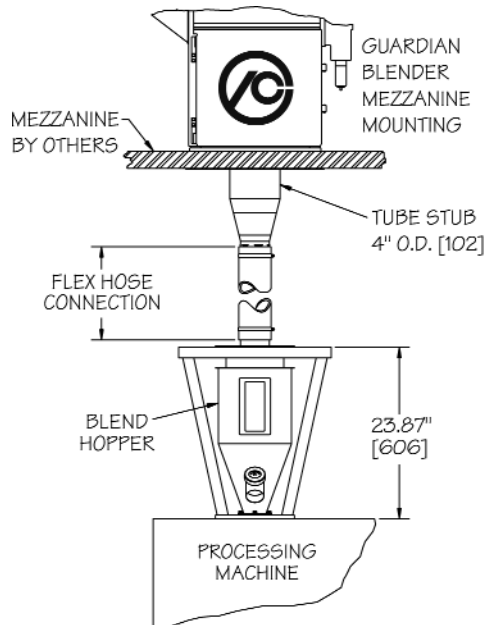


**Maximum Throughput Ranges:**  
 5-Element: 1339-3066 PPH\*  
 6-Element: 1105-2640 PPH\*  
 \* Depending on Accuracy Setting

Power: 460V/3PH/60Hz or 380V/3PH/50Hz  
 [ ] dimensions are in mm  
 Approximate shipping weight=700 Lbs.



# Optional Accessories



[ ] dimensions are in mm

## Optional Features

- PCCWeb® remote communication software
- Gravitol® extruder and linespeed control
- Extension cable kit for remote mounting mini-op operator control panel
- Low level proximity sensors for material hoppers
- Special electrical
- Special paint
- Up to 8 components on a 5kg unit
- Up to 12 components on a 12kg unit
- For lower throughputs, see Process Control Corp. specification sheet for 1.25kg & 2.5kg Guardian® Series Gravimetric Batch Blenders



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