

# Blender Upgrades

from Process Control Corporation

## New Upgrades for Continuous Blenders



X Series Continuous  
Gravimetric Blender



XU Series Continuous  
Gravimetric Powder Blender

**Process Control** offers a new selection of upgrades for Continuous Gravimetric blenders, including a color touch screen controller, brushless motors and drives, and a DSP weigh module upgrade kit, that will improve your blender's performance and longevity. These upgrades not only add years to your blender's life, but can actually improve your blender's accuracy as well. These upgrades offer a way to simplify the blending process and postpone future blender replacement, making operation easier and saving you money all at once. Your older Continuous Gravimetric blender controls, drives, and weigh module chips are facing the threat of becoming obsolete; ensure that will not happen by upgrading today.



New Motor Drives can operate with either new brushless or older permanent magnet motors.

Brushless Gearmotor  
installed on an X Series  
Continuous Blender

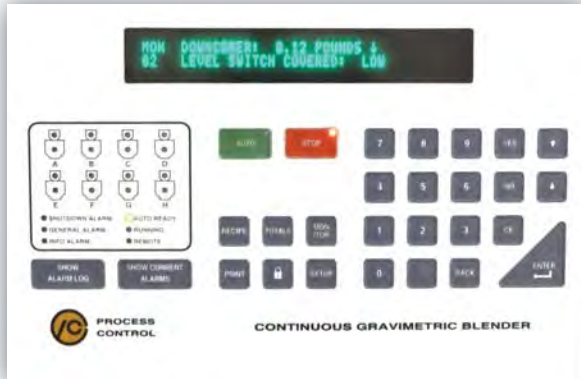


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# Color Touch Screen Controller Upgrade



Old Operator Interface



New Operator Interface

## STANDARD FEATURES

- ▶ Off-the-shelf solution with PLC Controls
- ▶ Direct drop in panels and cabling
- ▶ Intuitive 5.7" color touch screen interface
- ▶ Ability to save configuration to XML
- ▶ Remote control by PC via VNC compatible Ethernet connection, with embedded OPC Server
- ▶ Touch screen replaces old operator interface in existing enclosure
- ▶ Saves and restores configuration data and recipes to USB drive
- ▶ Alarm notification via email or SMS text messaging
- ▶ Option for a calculated rate vs. speed when a new recipe is entered
- ▶ Standard Ethernet port
- ▶ Ability to download settings and log files over a network via FTP connection
- ▶ Advanced control loop for increased accuracy
- ▶ Ability to show in real time the actual blender and each hopper set and actual metering rate
- ▶ Optional Gravimetric extrusion control and self loading also available

## Base System Pricing

OPERATOR STATION UPGRADE (X and B Series Blenders)

DESCRIPTION	PART NUMBER	PRICE
Operator Touch Screen Panel Upgrade Kit	TBD	CALL FOR PRICE
Operator Touch Screen Panel with Profibus Kit	TBD	CALL FOR PRICE

**Note: Upgrade Kit available for PWM drive blenders only.**

# Brushless DC Motors and Drives Upgrade



As compared to the previous versions, the new gearmotors are both brushless and encoderless, for far superior reliability, performance and a longer life span. The new motors come with more torque and a far greater speed range than before. Only two power/gear ratio combinations are required to cover the required RPM range for our line of blenders and feeders, versus eight power/gear ratio combinations for the previous permanent magnet gearmotors. The new drive/gearmotor package is 100% compatible with PCC blenders and feeders already in service.

## Pricing for Brushless Drive and Motor Kits

BRUSHLESS DRIVE AND MOTOR KITS (PMW drive replacement only)

DESCRIPTION	PART NUMBER	PRICE
Brushless Upgrade Kit, including Brushless drive, 5:1 gearmotor, and connector cabling	BB332310000	CALL FOR PRICE
Brushless Upgrade Kit, including Brushless drive, 20:1 gearmotor, and connector cabling	BB332410000	CALL FOR PRICE
Cooling Fan Kit	N/A	CALL FOR PRICE

## Weigh Module Upgrade

Your "blue chip" Analog weigh modules will soon be obsolete, so consider upgrading to our latest DSP weigh modules. They incorporate an improved, multilayer, low pass filter for noise and vibration that is adjustable for each channel. With improved usable resolution and temperature drift, metering rates can be controlled more accurately, down to 0.25 PPH. The new module is also easier to configure, with improved recovery from static interference, service and repair are practically eliminated.

**Note: Prices for Weigh Module Upgrade kits are available upon request to PCC.**



Old Weigh Module Chips



New Weigh Module Chips

# Questionnaire

## Blender Questions

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Date of Manufacture \_\_\_\_\_

How many hopper elements does the existing blender have? \_\_\_\_\_

Does the blender have "blue" weigh module chips? \_\_\_\_\_

Does the blender have PWM gearmotor drives (P/N C1450)? \_\_\_\_\_

## Manufacturing Process Questions

Materials Used \_\_\_\_\_

Output Range \_\_\_\_\_

Installed Options \_\_\_\_\_

Extruder Make \_\_\_\_\_

End Product \_\_\_\_\_

Extrusion Process \_\_\_\_\_

## Service Support

Phone Support Package? \_\_\_\_\_ or Service Engineer Visit? \_\_\_\_\_

## Customer Info

Company \_\_\_\_\_

Address \_\_\_\_\_

City, State Zip \_\_\_\_\_

Contact \_\_\_\_\_

Phone Number \_\_\_\_\_

Fax Number \_\_\_\_\_

E-mail Address \_\_\_\_\_

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