



**CSG Series Gravimetric  
Batch Blenders**



## CSG Blenders

All CSG Blenders feature precision 1/10% span accurate cantilever load cells and exclusive, heavy-duty diamond design slide gate metering assemblies, which provide for 1/2% to 100% recipe range for free-flowing pellets. The adjustable slide gate stroke limiters provide for accurate metering of minor ingredients. The mixer section is designed for efficiency and blend homogeneity. All metering, weighing, and blending components are constructed of stainless steel.

The Stainless Steel weigh hopper, mixer agitator, and lower mixer wrap are removable, and the powder-coated mild steel material supply hoppers feature machined polycarbonate clean-out doors. CSG Blenders also include compressed air clean-out hoses with blow-off tool included, quick disconnects on slide gate air lines, and a safety-interlocked access system that shuts off air and electricity if the mixer is opened.

### About Us

Colortronic, known for their industry leading line of blending equipment, now offers the CSG Series Gravimetric Slide Gate Blenders. Our team of industry experts will design a system to your application, oversee installation and support the equipment after the sale.

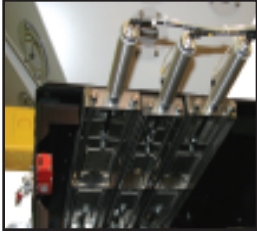
### Brief Description

Colortronic's gravimetric batch weigh blenders provide precise blends of up to 8 free flowing components. The blenders operate on a gain-in-weight principle, where each component is metered into a batch hopper using a diamond gate metering device. With this system, each pellet of material is weighed with precision load cells to ensure a highly accurate blend.



# CSG Series Blenders

## Features



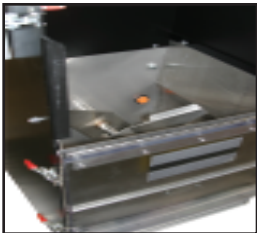
### Heavy Duty Modular Construction

- Integral one piece frame with removable metering compartments, weigh hopper, mixer drawer, and mixer agitator
- Heavy-duty slide gates with stainless steel components (most models)



### Industrial Mixing Chambers

- Efficient design ensures homogenous bi-directional mixing of all components
- Removable mixer drawer with fully welded front seam and hinged access door (smaller models only)
- Removable keyed stainless steel mixer agitator



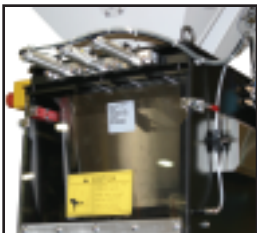
### Continuous Material Flow

- Oversized slide gate on hopper #3 aids flow of regrind material (some models)
- Adjustable slide gate stroke limiters provided for accurate metering of minor ingredients
- Oversized weigh hopper with full dump bottom door for larger regrind amounts



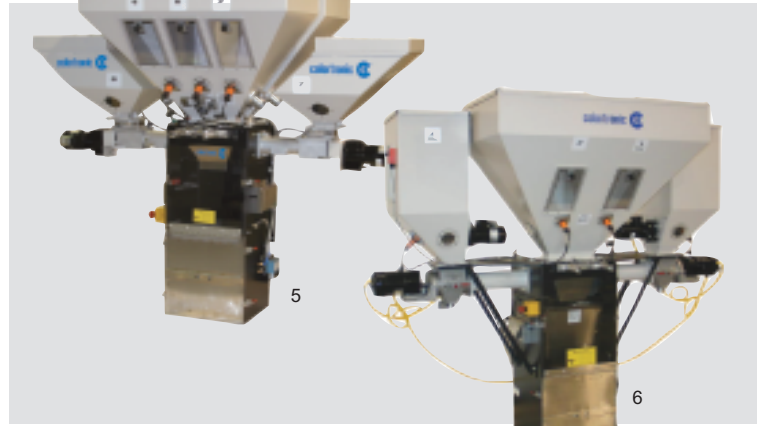
### Easy Material Cleanup

- Powder coated supply hoppers (inside and out), supply hoppers provide easy wipe down surfaces and eliminates rusting
- Machined polycarbonate access doors with push-to-close latches



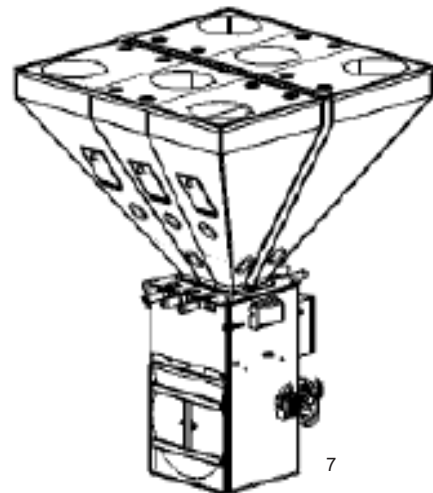
### Safety and Control

- Safety-interlocked access system shuts off air and electricity if mixer door is opened
- Heavy-duty industrial mixing motor with thermally protected interrupt
- Multiple recipe entry modes for simplicity of control and operation



## Optional Features

- Low-level solid-state proximity sensor for each supply hopper
- Hopper drain tubes with slide gate for quick cleanout
- Removable hoppers for quick color changes
- Regrind auger metering (RAM) with agitated straight wall hopper (not available with CSG-150 and CSG-500)
- Ethernet module for remote communication
- Blender stands with slidegates
- Low profile drawer-magnet (3-bar)
- A3 remote networking blender control and data acquisition software
- Drain tube with slide gate in supply hopper
- Vacuum take-off boxes mounted below surge hopper under floor stands
- Stainless steel supply hoppers
- High temperature package for blending dried materials up to 375°F



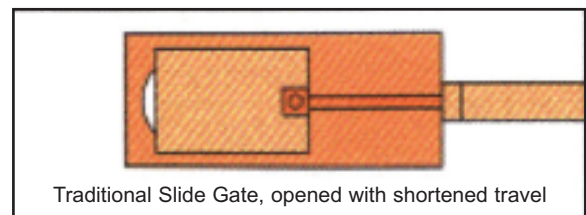
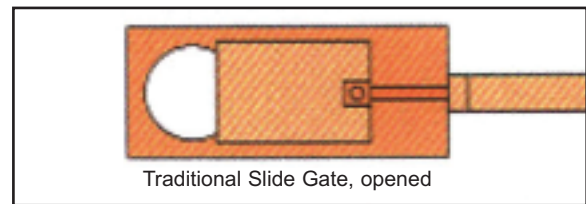
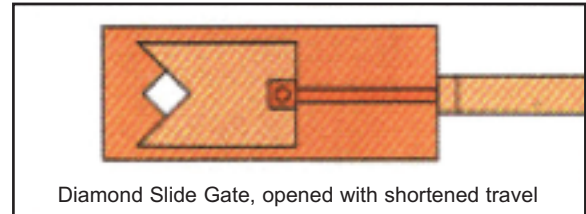
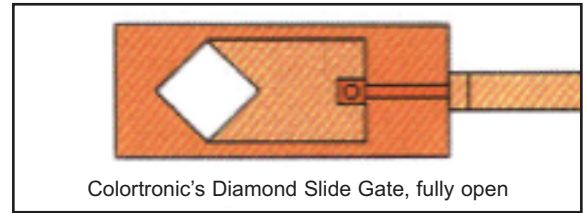
- 1 CSG 500
- 2 CSG 150
- 3 CSG 900
- 4 CSG 2500
- 5 CSG 2500, 8 component with feeders
- 6 CSG 2500 RAM
- 7 CSG 4000, CSG 6000

## Diamond Slide Gate Metering

The exclusive diamond slide gate design features a proportional cross section to accurately dispense the material at any gate position. Coupled with the controllers' ability to learn the gate-open time to achieve the rate, this blender provided accurate batch-to-batch consistency. The diamond slide gate rivals the performance of augers for metering of free-flowing pelletized resin in batch ratios as low as 1% on standard-sized blenders and even lower on large batch units. Adjustable cylinder stroke maximizes control of any free-flowing pellet.

## Batching Blenders

- Gain-in-weight operation
- Meter components to a specified weight set point—each pellet of material is weighed
- Accuracy defined in terms of overall batch
- Integral dynamic mixer
- Ingredients metered sequentially into weigh hopper
- Low-maintenance load cell design
- “E-Z” recipe format to enter fewer parameters



## Slide Gate Vs. Auger

Slide Gates are used for free-flowing pelletized materials. Augers are best suited for non-free-flowing materials (i.e. sticky resins, sheet scrap, etc). Augers are also effective with pelletized colorants and additive percentage ratios below 1%.



# CSG Series Blenders

## Touch-Screen Control

The patented Mitsubishi PLC Control system with touchscreen interface allows three types of recipe entry: **Percentage** mode meters ingredients as a percentage of the overall batch; **Parts** mode meters ingredients as a ratio (i.e. 500:1); and the **Quick Set** mode meters additives as a percentage of the virgin material. Up to 50 recipes can be stored, and an inventory accumulation is stored for all ingredients and totals.

## Advanced Blending System

The Mitsubishi integrated blending and control system provides off-the-shelf control with proven reliability.

- User friendly
- Menu-driven interface
- Programmable entry screens for all three recipe modes (up to six ingredients)
- Real time display of process rate and material usage of each ingredient

## Features

- Touch-screen interface in a remote-mount pendant enclosure
- Two screens allow total control and monitoring of the blending process
- Constant display of actual material used
- Load cell signal conditioning technology improves reliability and is unaffected by electrical noise
- Redesigned pneumatic and electrical systems improve metering accuracy and blender rate
- Electrical panel meets applicable specifications, with 220 volt operation and CE declaration available
- Integral alarm light and horn indicates material feed problems
- Ethernet module available for off-line monitoring, control and remote troubleshooting





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