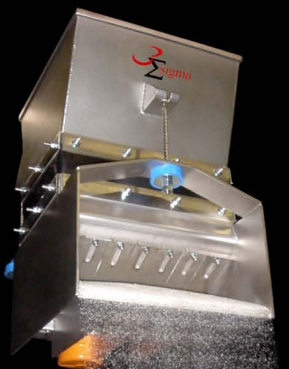




THE BRICKMASTER™

3Sigma offers complete brick mixture solutions: raw ingredient compounding, mixing, conveying, brick coating and reclamation systems. Manual, semi-automatic and automatic system solutions are available.



Coating Feeders

- ◆ Feed sand, clay and shale mixtures
- ◆ Mass Flow Feeding- no more operator interface
- ◆ Minimize dust
- ◆ Mount feeder <1" above brick line
- ◆ Adjust coating width in minutes
- ◆ 100:1 coating turndown rate
- ◆ Inline or bias cut designs
- ◆ Volumetric and Gravimetric systems
- ◆ Unsurpassed 3-year warranty

The BrickMASTER™ by 3Sigma offers a breakthrough in coating technology for the brick industry. Whether coating the face, the header or both, the BrickMASTER™ can improve your brick quality while minimizing dust and spillage in the coating area.

Compounding Systems

3Sigma offers complete compounding systems to deliver the proper ingredients to your mixer in an automated sequence.



Mixers

A variety of mixers are available to meet your mix times – based upon your production line requirements. This ranges from simple ribbon blenders to hybrid ribbons to high intensity blenders that can complete an entire mix in less than one minute.



Conveying

A variety of conveying systems are available to properly move your mixed ingredients to the proper BrickMaster™ coating feeder. Dense phase conveying systems allow for this to be automated. Mechanical systems are used when the conveying distance is relatively short. Totes are used as well.

Reclaim Systems

Header reclaim systems can pay for themselves in as little as 3 months. Both mechanical and pneumatic systems are provided to eliminate dust, operator interface and thousands of dollars of waste. A recent installation decreased raw material mix use from 31,200 lbs. to 9,600 lbs. per 8-hour shift, saving thousands of dollars per week!





Eliminate Operator "Interface"

Each BrickMaster™ coating system is designed for mass flow. The hopper slopes are designed to ensure all product flows at one time, while the outlet is sized to prevent bridging. Mass Flow design ensures a first in, first out flow pattern, and, the elimination of operator "interface".



Operator "Interface"

Minimize Dusting



- The unique feeder and drive arrangement offered allows the feeder to be placed <1" above the brick line, eliminating most transient dust.
- The hopper inlet is completely sealed, completely eliminating infeed dusting.

Adjustable Flow Rate

The BrickMaster™ flow rate can be adjusted three ways.

- Each unit is controlled by a VFD which typically provides a 10:1 turn down range.
- RatePlate™ and/or vibrator adjustments provide significant rate changes.



RatePlates™ at "fully closed" position



One RatePlate™ opened

Adjustable Coating Width

Although most units are designed for a specific coating width, specialty RatePlates™ can be provided to allow for coating width adjustment in minutes.

Additive Feeders



3Sigma offers a full range of mass flow additive feeders which eliminate all the moving parts associated with conventional screw feeders.

- Products Fed: Manganese Dioxide, Soda Ash, Iron Oxides, Iron Chromite, Ironspot, Marble Dust, and Bentonite Clay
- Configuration: Volumetric or Loss-in-Weight feeders
- Coating: With or without coating capabilities
- Integrated: Each feeder can be slaved to your raw material feed via a 4-20mA signal from a belt scale

Testing Facility

3Sigma maintains a testing facility in Charlotte, NC for your use. Various feeder sizes, coating widths and hopper configurations can be tested. Allow us to demonstrate the BrickMaster™ coating feeder with your product. Please contact us to take advantage of our no obligation testing.

