

## B. W. SINCLAIR INFORMATION UPDATE

### AUTOMATED BATCH SYSTEM FEEDS FINE CLAY TO PIGMENT MIXERS

A recent project for handling fine kaolin clay had the following checklist:

- Accurate metering into the process
- Bulk bag handling
- Elevation above product mixers
- Sequential distribution as required

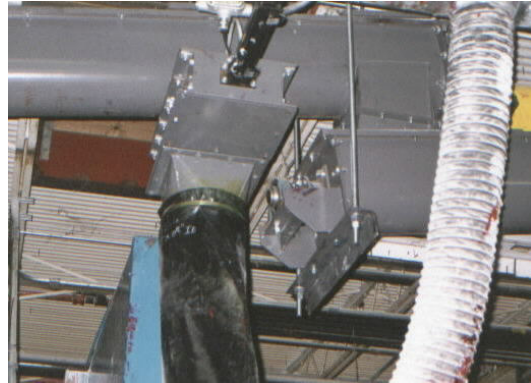
BWSI addressed these needs with an integrated system featuring a Bulk Bag Unload Station, a Volumetric Screw Feeder for flow control, a Vertical Screw Conveyor to raise the product above the mixers, a series of Horizontal Screw Conveyors, each piggy-backed and fitted with Cam-Roller Flat Gate Valves, and a System Control Panel for mechanical and batch operation.



The client, a commercial ink manufacturer, wanted to stop adding the kaolin via 50-lb. bags to take advantage of the economies of handling intermediate bulk bags, as well as improve safety and working conditions at the plant.



Incoming product is now delivered from the warehouse via forklift and elevated above the bag unloader with the integral electric hoist. The cantilevered screw feeder, flexibly connected to the vertical screw, isolates the scale function and allows the system to operate in loss-in-weight mode.



The mixer operator simply enters the batch size required for the individual tank and energizes the system. The panel starts up the various components sequentially to deliver the prescribed batch to the proper mixer. An adjustable time delay was engineered into the controls to compensate for the incalculable inefficiency factor of transferring the powder vertically.



Batch accuracy of <1% resulted after successful start-up. The modular design and factory pre-assembly made this installation quick and trouble-free – another SINCLAIR success.

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