

Automatic Bin Fill

The Automatic Bin Fill System provides a fast, automated, and cost-effective way to get materials from underground storage bunkers into overhead bins. The system's standard controls permit automatic monitoring and replenishment for up to six bins. The system allows priority-first replenishment if materials from one underground storage bunker are required more often than others. Any or all materials can be manually overridden at any time. An alarm indicator alerts the user to plant malfunctions. The emergency stop button halts all related plant motion in the event of a belt break or other hazard.

Features:

- Gap (Fast) mode allows optimization of bin loading on plants with long conveyors.
- Contamination Monitoring
- Skip Bin Filling
- Alternate Ground Bin sources (gates)
- Priority Bin filling with minimum fill times.
- Emergency High Bin Level monitoring
- Maintenance mode to perform maintenance or to run manually in winter.
- Customization on the more complex material handling systems.
- Integration with remote manual control panels, available as add-on.

System Capabilities:

- Determine the need for a material
- Rotate the turnhead or shuttle conveyor to the correct position
- Turn on the feed belts as needed
- Open the correct gate on the underground storage silo
- Monitor the process until filling is complete
- As the System Sequences from One Material to the Next the Automatic Bin Fill system Will:
- Close the gate in use on the underground storage
- Determine the turn head positioning delay

Open the feed gate for the next material while ensuring the proper belt delay to prevent cross contamination of material bins

Benefits of Automatic Bin Fill System:

- Automates bin replenishment, allowing staff to concentrate on more important and time critical operations in the plant
- “Keep Full” ensures the batch plant bins remain full, preventing production delays

