Baking Products

Flour Silos
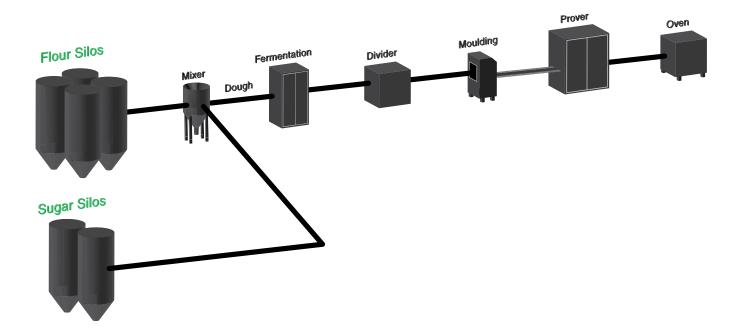
Mixer

Dough

Fermentation

Divider

Moulding

Prover

Oven

Sugar Silos

Flour Storage

Application: Flour is stored in silos before being transferred into the production process.

Challenges: Knowing the amount of stored flour is critical for the flow of producing baked goods, since without it production will be interrupted or stopped altogether. Ordering in a timely manner will optimize purchasing and prevent potential inventory shortages, while using time more efficiently. Because flour tends to adhere to silo walls, creating buildup and rat holing, early detection of high and low spots in the silo will ease maintenance, reduce maintenance costs and allow for optimal use of the silo contents. Different types of flour cannot be mixed together in some cases, and knowing the actual volumes of stored flour can be crucial to the quality of the final product.

3DLevelScanner

BINMASTER

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Lincoln, Nebraska, USA

BinMaster's 3DLevelScanner provides accurate, real-time measurement of the volume of the different types of flour stored in separate silos, taking into account areas where buildup has occurred. The 3DLevelScanner's visualization tool allows the end user to view the topography of the material inside the silos in real time, facilitating the scheduling of any required maintenance and cleaning before damage is caused to the product or unexpected interruptions of the production process occur.

Sugar Storage

Application: Sugar is stored in silos prior to being added during the mixing process.

Challenges: Sugar and sugar dust tend to clump and can potentially build up in the silo. Moreover, sugar's sticky nature challenges measurement devices that need to operate even when material sticks to the device. The stickiness of the sugar and the random formation of material buildup inside the silo make it challenging for the end user to continuously assess sugar inventory levels. BinMaster's 3DLevelScanner is proven to perform in this sticky, harsh environment, mapping the material surface in order to accurately measure the amount of sugar inside the silo. The 3DLevelScanner's 3D visualization tool allows the end user to view an image of the material surface and detect high and low points inside the silos in real time, including buildup, facilitating timely maintenance and reducing the risk of interrupting the production process and associated losses of time and money.

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