

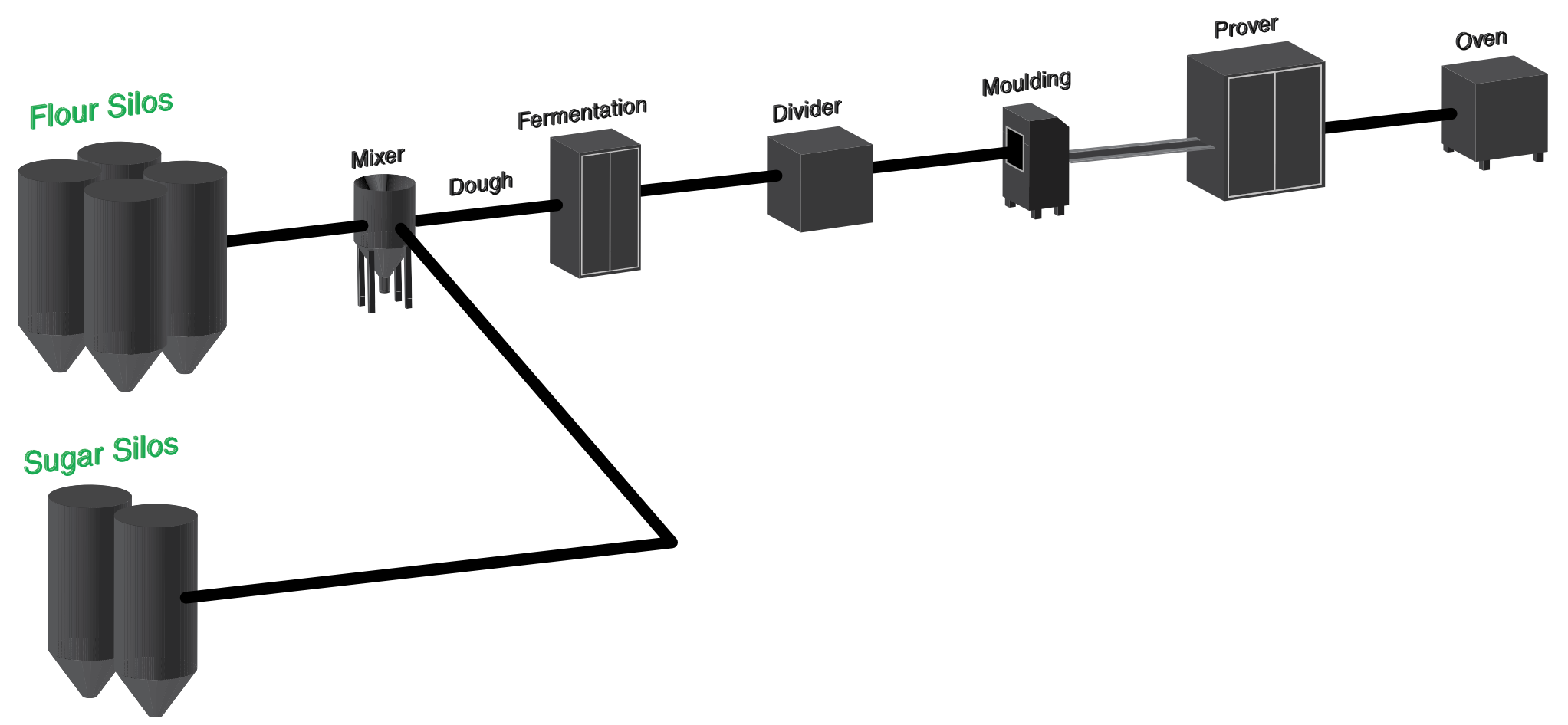
Pastry Production

Industry Applications Series



*Changing the market
from level to volume*

Pastry Production Diagram



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 production flow, since without it production will be interrupted or stopped altogether. On time ordering of the right quantities will prevent overflows as well as wasted production time. Flour tends to stick to the silo walls, creating build-ups and rat holes, early detection will ease maintenance, reduce maintenance cost and allow optimal use of the silo content. Different types of flour cannot be mixed together in some cases, and knowing the actual volumes of stored flours can be crucial to the quality of the final product.

APM's 3DLevelScanner provides accurate real-time measurements of the volume of the different types of flour stored in separate silos, taking into account such build-ups and rat holes. The 3DLevelScanner's visualization tool allows the end-user to see the allocation of 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 baking process occur.

Sugar Storage

Application: Sugar is stored in silos before being added to the mixture.

Challenges: Sugar and sugar dust tend to accumulate, creating build ups and rat holes, so understanding actual material content continuously becomes very difficult. The materials' sticky nature challenges level measuring systems which need to operate even if sugar sticks to the antenna or other system parts. APM's 3DLevelScanner is capable of working in this harsh environment. The 3DLevelScanner's 3D visualization tool provides a real time 3D display of the sugar's distribution inside the silos, including these build-ups, facilitating timely maintenance and reducing interruptions risks to the delivery schedule and the associated losses of time and money.



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