

Glass Production

Industry Applications Series



A guide to volume
measurement solutions for the

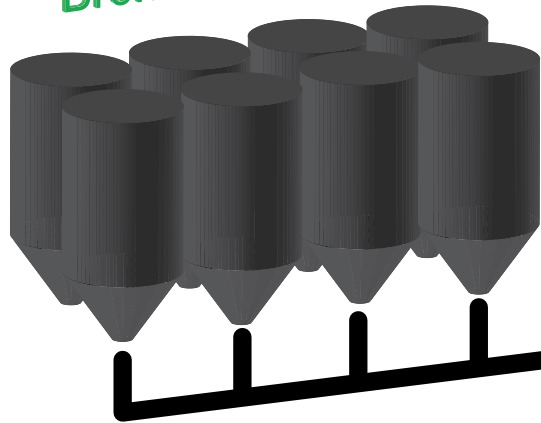
Glass Industry



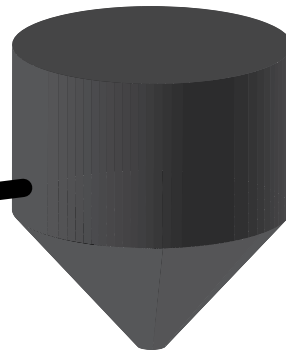
*Changing the market
from level to volume*

Glass Production Diagram

Raw Materials
(Soda Ash, Dolomite, Sand,
Broken Glass etc.)



Batch Silo



Furnace



Raw Materials Storage

Application: Raw materials used for the production of glass (sand, dolomite, soda ash, calomite, broken glass, and manganese oxide) are stored in silos before entering the batch processing.

Challenges: Batches that feed the furnace are produced by mixing fixed amounts of the different raw materials that come from the different silos. For some of these materials each batch must be supplied from a single supplier and can't be mixed with material coming from a different supplier. Therefore, it is essential to have sufficient quantities of all the materials before the batching starts. When operators know how much of each material is available they can avoid unnecessary and unexpected production stoppages. APM's 3DLevelScanner reliably and accurately measures the volume of the stored materials, in multiple silos, enhancing operators' inventory management and control capabilities.

Batch Silo

Application: Different raw materials are mixed using a specific recipe for each glass production cycle and are kept in the batch silo before entering the furnace.

Challenges: The batch silos feed the furnace. Since the furnace needs to be fed continuously it is crucial to control the batch silo inventory for the on-going process. Operators need to ensure continuous production and to avoid unnecessary and unexpected production stoppages and associated losses in time and money. The APM 3DLevelScanner provides reliable, accurate real-time measurements of the volume of the raw materials stored in the batch silo, giving the operators significantly improved inventory management and control capabilities.



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