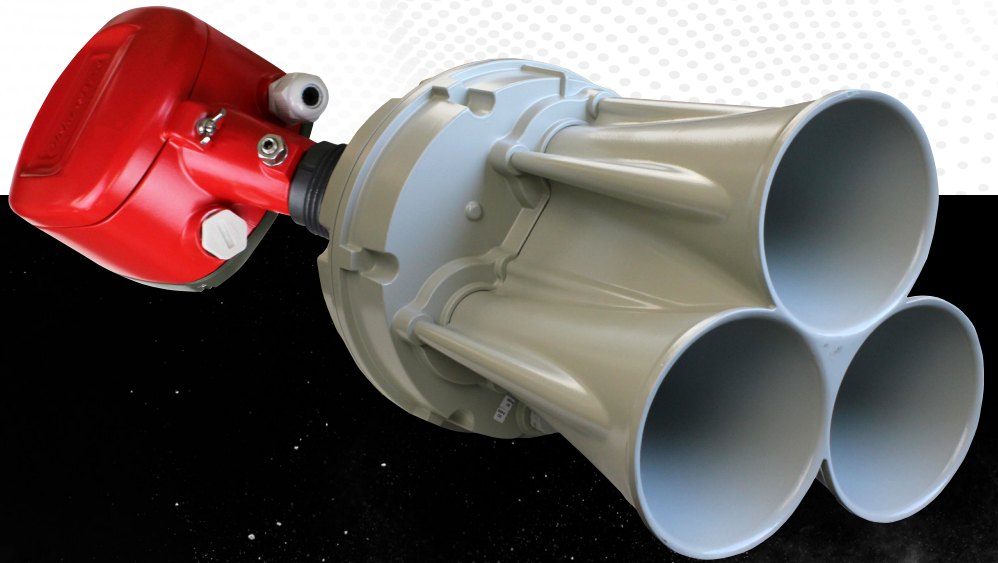


Case study

# BAKING INDUSTRY

## 3DLevelScanner sees in silos

BinMaster serves the huge baking industry with 3DLevelScanners that utilize radar technology to see through powdery material and account for sticky sugar because in baking, knowing your material is key to great inventory management.



### Plugin binmaster.com

#### KEYWORDS

grain bin, level sensors,  
bulk inventory management,  
baking industry

#### OBJECTIVE

Learn to combine sensor  
and software technology to  
automate silo measurement.

#### CONSIDER

Manual bulk measurement  
is risky, material overflow  
costly, and labor short.

#### ONLINE

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# BAKING BULK MATERIAL INVENTORY

## APPLICATION

The US baking industry makes up 2.1% of the gross domestic product according to the American Baker's Association. Producers represent almost 3,000 independent bakers many with less than 10 employees. Large bakeries represent about 55% of total baking revenue in the U.S.

One BinMaster bakery customer counts on sugar and flour, stored in silos, to feed its baking operation. Inventory management is critical because ordering bulk commodities in a timely manner prevents spoilage and shortages.

## CHALLENGE

Without sugar and flour, production stops. Flour tends to adhere to silo walls, creating buildup and rat-holing. Different types of flour cannot be mixed and knowing volumes of stored flour can be crucial to the quality of the final product.

Sugar can create challenges for measurement devices that must deliver data even when material is sticking to the device. Bulk ingredients create random formations in a silo creating another challenge with continuous measurement.







## SOLUTION

BinMaster's 3DLevelScanner overcomes this harsh, sticky environment. Sensors map the surface to measure the quantity of sugar and flour in silos. Data turns into an image of the material surface displaying high and low points for the manager who can react with timely maintenance to reduce production interruptions. Early detection of high and low spots in the silo will ease maintenance, reduce costs and allow for optimal use of contents. Ordering in a timely manner also helps optimize purchasing.



## BinCloud®

Imagine eliminating climbing bins, relying on guesswork, massive spreadsheets, and piles of paperwork. Instead, simply view feed inventory information on your phone, tablet, or computer. BinCloud is a comprehensive inventory management solution that combines level sensors with a cloud-based, simple-to-use software application. Automatically measure bin levels, predict consumption using historical consumption rates, record and track the use of medicated feeds, and know when to schedule deliveries ... anywhere, anytime.

Industry	Bulk Material	Sensors	Software	Applications
 Agriculture Farming Livestock	Grain Flour Beans Fertilizer Seed Liquids  Bins, silos, tanks, piles, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D sensors Ultrasonic Flow detector	BinCloud BinView AgriView Binventory FeedView 3D Multivision	Prevent overflows Process control Inventory management Remote monitoring Monitor piles Flow detection Bin aeration Dust detection Aeration Ag Chemical Storage
 Bioenergy	Corn DDG Biomass Wood pellets Wood fiber Forest residue  Bins, silos, tanks, piles, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic Flow detector	BinCloud BinView Binventory 3D Multivision ResinView	Prevent overflows and outages Process control Inventory management Remote monitoring Flow detection Slurry tank detection Measure DDGS
 Cement	Sand Gravel Clinker Rock Powder  Bins, clinker silos, tanks, piles, domes, chutes, crushers	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Plugged chute detector Airbrator Diffuser air pad	BinCloud BinView Binventory 3D Multivision CementView	Prevent overflows and outages Process control Inventory management Remote monitoring Monitor piles and bunkers Inventory domes Plugged chutes Measure crusher levels ESPs or clinker silos Prevent conveyor overloads Silo aeration
 Food processing	Brewing Foodstuffs Solids Slurries So much more...  Silos, mixers, batching tanks, conveyors, pipelines	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView AgriView Binventory 3D Multivision	Prevent overflows Inventory management Remote monitoring and VMI Process control Sanitary level measurement Detect levels in mix or slurry tank Detect levels on conveyors Flow detection Silo aeration
 Mining	Lump coal Ores Aggregates Fine alumina powder  Silos, crushers, conveyors, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView Binventory 3D Multivision CementView	Inventory management Monitor piles Prevent overfills or outages Detecting plugged chutes Measuring inventory in domes Level measure in crushers or bins Prevent overloading Process tanks Remote monitoring Silo aeration Dust detection
 Plastics	Resins Flakes Powders Granules Regrind  Silos, bins, containers, hoppers, tanks	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView ResinView Binventory 3D Multivision	Prevent silo overfill Eliminate outages Inventory management Remote monitoring Vendor managed inventory Flow detection Bin Aeration Dust Detection