

AIRMATIC®
CASE STUDIES

Chemical Processing: Silo Inventory Management System



This job story focuses on the benefits of safe and accurate level detection in silos and hoppers. The customer in this study is a leading global supplier of catalysts, engineered packaging materials, and specialty construction chemicals and building materials located in the Middle Atlantic States.

Problem in More Detail

The customer was using an unsophisticated and dangerous drop-line method to get level readings in each silo. To measure the contents of a silo, an employee had to climb an outside stairway then walk on exposed catwalks. Inclement weather made the process more dangerous because workers could slip in rain or snow. The customer wanted a solution that eliminated the safety hazards and wasted labor inherent in this process. The customer also needed more accurate inventory measurements.

Solution

AIRMATIC Application Specialists surveyed the situation to find a solution that would eliminate the safety problem, meet level detection and measurement needs, and fit the company's budget. They decided to install a BINMASTER® SMARTBOB II, a reliable and accurate inventory management system used in a variety of industries to monitor stored powders and bulk solids.

BINMASTER's SMARTBOB II works on a single bin, tank, or silo, or in an entire network of storage vessels. The sensor is mounted on top of the bin and automatically drops a weighted cable to the mate-rial surface to take a precise measurement. It then sends the measurement data to a readout console, allowing for greater accuracy. With the ability to manage up to 128 bins with heights up to 180 feet, the SMARTBOB II offers the strongest and smartest cable-based inventory measurement system currently on the market. This system enabled the customer to acquire an accurate bin-level reading, on demand, while also improving worker safety.

Conclusion

As this case study shows, AIRMATIC's solution succeeded and the customer immediately saw improvements in measurement accuracy and improved safety. Within four months of installation the customer purchased another system for a second silo.

If your mill is not the well-oiled machine that it should be, call us at AIRMATIC. We'll Handle It.