

RapidCal™ for Large Silos

The Benefit of Testing to Full Capacity



“RapidCal™ gave us the opportunity to test our silos at full capacity, making them more accurate and providing more consistent batches for our customers.”

Plant Engineer

A large warehousing company was encountering inconsistencies in their silos at high capacities, leading to complaints from its largest customers. The company turned to METTLER TOLEDO to help them correct the issue so that they could provide more accurate and consistent batches.

Situation

The warehouse, who supplied several large global companies, found that weights from two of their large silos were inconsistent. While they currently calibrated using test weights, they could only apply 2,000 kg worth of weight for testing. The production load of these silos was almost 30,000 kg, leaving them unable to understand the behavior of the scale at max load.

Benefit

The warehouse retrofitted their existing tanks to accommodate RapidCal™ allowing them to test at full load. This provided the following benefits:

- Correction of a 500 kg error at max capacity, correcting a product shortage
- Reduction of the risks associated with suspending heavy test weights
- Decreased downtime

The Challenge

The customer was unable to understand the behavior of its silos at full capacity, which is ultimately where they were seeing errors. While they were receiving routine calibration, they could only test at less than 10% of the total load of the silos. No matter how often they calibrated, weights were inaccurate at high loads, resulting in significant product shortage. Customers had already started to bring the issue to their attention, so something needed to be done to correct the shortage.



The Solution

RapidCal™ Tank Scale Calibration allows for testing up to 32,000 kg, providing a full scale calibration on these silos. All the customer had to do was provide quick modifications to their tanks to add anchor points for METTLER TOLEDO service equipment. Once the anchor points were added, calibration could be performed without heavy test weights, up to full capacity, in 1/3 of the time that a traditional calibration took, reducing costly downtime for the warehouse.



The Result

RapidCal™ calibration was performed on both silos, discovering a 500 kg error on one silo and a 250 kg error on the other. An adjustment was performed to correct the errors, and now the silos are providing accurate and consistent batches to the warehouse's customers, correcting the shortage issues. Additionally, the plant manager was able to use the calibration findings to obtain funding to add cross-bracing to one of the silos, further improving accuracy.



Learn more:

► www.mt.com/ind-RapidCal

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