

Aditya achieves improved silo contents management using 3D Solids Scanners

RESULTS

- Enabled material inventory tracking for better operation and control
- Allowed real-time detection of material buildup
- Reduced maintenance time and expense



APPLICATION

Volume measurements of dry solids in silos

CUSTOMER

Aditya, India

CHALLENGE

Aditya Birla Group, headquartered in Mumbai, India, is a \$35 billion corporation, placing it in the same league as Fortune 500 companies. The Group's Cement Division has been ranked amongst the top 10 cement producers in the world.

Aditya previously used another technology for its process level measurements of stored materials (solids). However, there were operational difficulties due to the large silo size, the particular material granularity, low reliability of measurements, and poor tracking ability during filling and emptying operations.

Measurement of solids is a challenge for a number of reasons. The solids surface is uneven and shifts as the silo is filled or emptied. Silos often have a dusty environment which can obstruct the measurement reading for many technologies. Lastly, some materials tend to build up and stick on walls, occupying space that may not truly be available for production. All these parameters make it difficult to know how much material is in the silo and how much capacity is available for additional material.

A poor visibility of silo contents can lead to unexpected production loss due to a lack of materials, the risk of overfilling a silo due to inadequate capacity, and inefficient scheduling of deliveries. The customer sought a solution that would generate reliable volume readings through the entire process.

"The 3D Solids Scanner solves all our operational problems.

No other equipment in the past gave us such reliable volume measurement."

DGM- C&I Aditya Cement



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SOLUTION

Aditya installed 3D Solids Scanners on six of its silos, and now has greatly improved silo management with highly reliable volume readings and content monitoring capabilities.

With the 3D Solids Scanners, Aditya was able to view 3D mapping of the material surface inside the silos and to detect build ups. This led to reduced maintenance time and associated expenses.



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