

# Level Measurement - LLT100

## Raw materials inventory control



LLT100 application in the measuring and control of corn in silos

### Measurement made easy

— Corn silo

— 01 LLT100 laser level transmitter

— 02 LLT100 in testing phase

#### Introduction

A major Colombian company specializes in the manufacture, distribution, sale, and export of concentrated feed for all livestock species, as well as sale of raw materials and premixes. It has 20 production plants in Colombia, Ecuador, and Panama, more than 1,800 distributors, annual production of more than 2 million tons of feed, and about 500,000 tons of raw materials..

#### Challenge

The challenge of this application was to provide inventory level measurement data of the raw material contained in each silo in real time with non-contact technology. This would then allow for the calculation of monthly production.

#### ABB Solution

The proposed solution was the implementation of the LLT100 laser meter for solids. The measurement

is in corn silos, however, and the transport by chain elevators performs a grinding process, generating dust contamination. The LLT100 was configured for dust application due to top fill.

#### Conclusion

Customer availability and ease use of LLT100 laser equipment for try-and-buy tests at the customer's facilities was a key selling point. Teamwork between the factory, ABB Columbia and the specialized distributor to solve any concerns in a timely manner during the tests was also a big win. The client has 33 units installed in various production plants nationwide, and the laser technology has allowed the customer to have a real level measurement that can be read from their SCADA and mobile phone. This project has strengthened the relationship with the customer and opened up new opportunities using the same technology in other production plants.



01



02