ABB MEASUREMENT & ANALYTICS | SUCCESS STORY

LLT100 dream target
Application success in cardboard mill

A generally difficult level measurement task in a chemical plant’s wastewater treatment systems is an ideal application for ABB laser level measurement devices. Likewise, outside applications in foam, waves, mechanical obstacles, and dissolved chemicals are absolutely no problem for LLT100.

Measurement made easy

Introduction
A customer in a chemical plant was facing a difficult level measurement task with wastewater treatment. The task was to find a reliable level technology and to install it in time for an ecology inspection visit.

Upon visiting the site, we found several old ultrasonic level devices from a competitor, all which were not functioning well. We also learned that the customer had tested other level technologies without success. They were desperate to find a solution to this challenging situation and to have it in place quickly.

Challenge
Dealing with old infrastructure, our task was to provide reliable level measurement on a very dirty fluid with a great deal of foam (which was almost solidified). The water also contained different chemicals, and metal obstacles were present in the tank, creating waves. Another challenge was environment. The installation was to take place outside where wind, rain and snow were often present. Lastly, because the ecology inspection was weeks away, we had one chance to find a successful solution, quickly.
ABB solution
We immediately proposed LLT100 for this application. The customer had not heard of laser level measurement for real process applications, but we were able to provide confidence in the solution. The LLT100 had been successful where other technologies had failed due to harsh conditions and targets like this in the past. Within a few minutes, we were able to quickly, easily and successfully install an LLT100 for testing.

Conclusion
LLT100 performs reliable level measurement, even on very difficult targets where other technologies fail. Because of LLT100’s narrow beam and visible pointer, we were able to easily test the application, thereby convincing the customer of the advantages of ABB technology.

After successful testing, the customer decided to use LLT100 for other applications as well.

The customer was very satisfied with LLT100 and even replaced a few of their old ultrasonics with LST300.