

# Laser Measurement - LLT100

## Laser level transmitter on latex milk mixing tank



Surgeons wearing latex gloves, preparing for surgery

LLT100 finds success in latex manufacturing

Measurement made easy

### Introduction

A latex glove manufacturer for the medical sector reached out to ABB. They needed a laser level transmitter to be used in a pre-process, the production of latex milk.

First, the tank is filled with water. Next, the agitator goes into operation, and the starch is added. The process is controlled by the fill levels, measured by the laser level transmitter.

Initially, radar and ultrasonic measurements devices were tried with unsatisfactory results. The control of the filling levels and the mixing ratio of water and starch had to be carried out by manually. A different option was needed.

### Challenge

The tank is a cylindrical, stainless-steel tank with a diameter of approximately 2m and height of 4m. In the middle of the tank, there is an agitator that extends to the bottom, covering nearly the entire diameter. The agitator creates a moving surface of the medium. The nature of the medium also changes during the process. First there is water in the tank, and after the addition of the starch, a milky liquid is formed.

### ABB Solution

The LLT100 was installed with a small stand on the lid of the tank. This protects the lens from contamination by the medium. Due to the small radius of the measuring signal, the laser could be aligned in such a way that when the tank is almost empty, the laser can measure beyond the agitator to the bottom of the tank. No special settings are necessary. The LLT100 can be operated in standard mode.



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