



LaseBTL - Bulk Train Loading-station

Product module *CEWS Bulk Volume*



The application LaseBTL - Bulk Train Loading-station is a solution applied for the fully automated emptiness and filling level control as well as positioning.

In order to measure transported goods on wagons exactly, 2D laser scanners from the **LASE 2000D-11x Series** will be used in combination with the LaseBTL-Software application.

Besides the track two laser scanners each measure the position of the wagons. One further laser scanner is placed above the track in order to measure the filling degree before the loading process [emptiness control]. For the possibility of wagon position determination, two further laser scanners measure from behind of the loading station - even when the train is already inside the loading station. Optionally an additional laser scanner can measure and verify the loading degree of each wagon. The rugged design of this system also allows reliable measurements and strong performances even in harsh environments.

Altogether these three tasks can be operated by the application:

- 1) Emptiness control
- 2) Wagon position determination
- 3) Filling level control

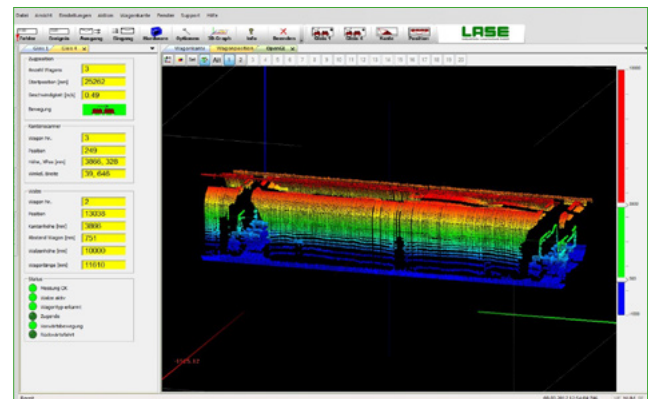
This application has a high versatility and can be used for volume and profile measurements of all different materials - such as stones, sand, ore or coal - which are transported on wagons by train.

APPLICATIONS & FEATURES:

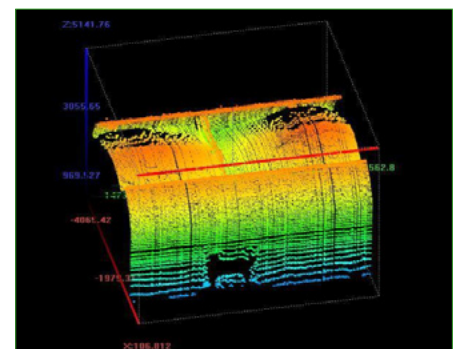
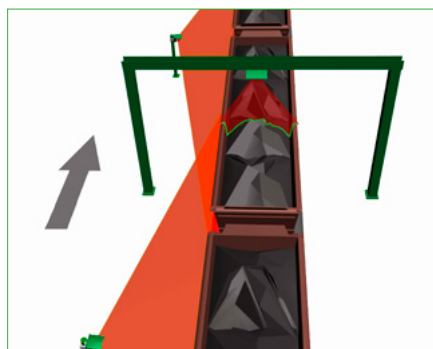
- Ensures fully automated train loading processes
- Wagon size, position and speed determination
- Emptiness control and height measurement
- Filling level control [during and after loading process]
- Wagon ID recognition [optionally]

CUSTOMER BENEFITS:

- Exact volume and position measurement
- Reliable results through state-of-the-art laser technology
- Time-efficient and non-stop loading process
- Spillage control detects waste of material [optionally]
- Rugged design ensures operation in harsh environments



Function principle



LASE offers innovative and productive solutions by combining state-of-the-art laser hardware technology and sophisticated software applications. We deliver a broad range of precise and reliable 1D, 2D and 3D laser systems, which can be used for several measurement tasks.

We look to develop long-term relationships with our customers to drive projects forward and help improve safety and efficiency at a huge diversity of applications worldwide through working closely with them.

COMPETENCE, CREATIVITY AND PASSION lead us to be the ideal partner for your requirements. Convince yourselves of our broad portfolio of innovative products and solutions on our corporate website.

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