product data sheet

LaseWVM

WAGON VOLUME MEASUREMENT

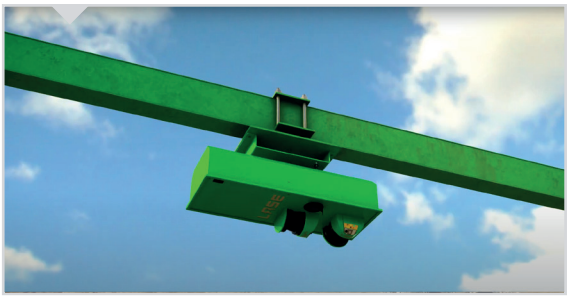
BULK MATERIAL INDUSTRY

LaseWVM is a laser-based and contactless volume, position and speed measurement of wagons in a train loading station or unloading station.

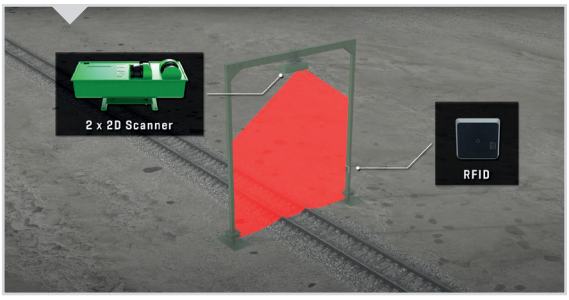
THE MEASUREMENT SYSTEM

LaseWVM consists of 2 x 2D laser scanners that communicate with the LASE system application software and continuously record measurement data.

2 x 2D laser scanners are positioned above the track behind or in front of the train loading/unloading station and measure longitudinally and transversely to the direction of travel of the wagons and the tractor unit, so that the speed of the train and the position of the wagons are determined. The system measures the empty or full volume, the respective filling level or checks whether the wagon has been completely emptied. The function here depends on the process of the train loading/unloading station.



Two 2D laser scanners are positioned on a frame above the track.



LaseWVM is equipped with an RFID scanner to identify the wagons.

THE FEATURES

- Volume measurement
- Filling degree measurement after the filling process
- Position detection of the draught
- Open door detection
- Empty profile measurement
- Emptiness control
- Train speed measurement

THE BENEFITS

- detects various dangerous situations
- Accelerates a range of work processes
- Weight manipulation excluded
- No stopping required

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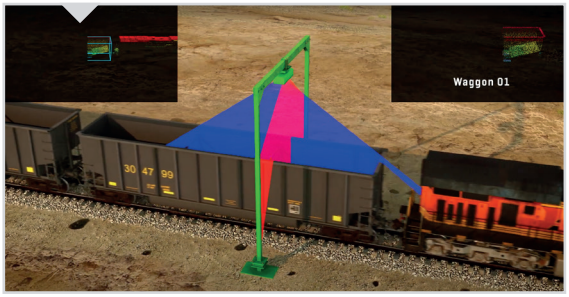
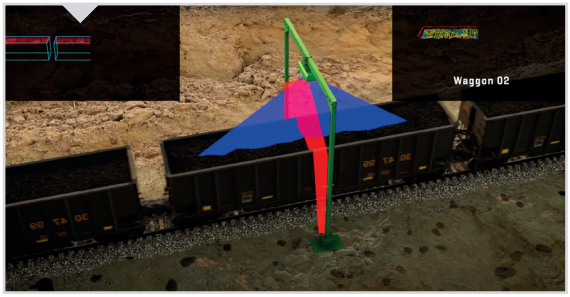
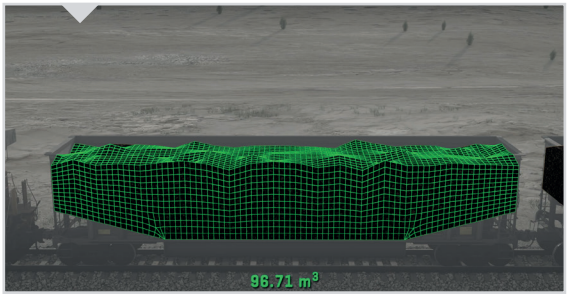
THE FUNCTION PRINCIPLE



The empty wagons pass through the scanner to capture the loading area.



The loaded train passes the scanner again. This captures the surface of the load.



Both scan results together form the volume of the load.

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GLOBAL PLAYER FOR

LASER MEASUREMENT SYSTEMS

For more than 30 years, LASE Industrielle Lasertechnik GmbH has been the global contact for high-precision and robust laser measurement technology for the industrial sectors port, bulk material handling, steel and logistics. With our 1D, 2D, 3D and multi-layer sensors as well as in-house developed applications, our systems stand for more safety and efficiency. Our goal is to drive the automation of industry with easily retrofittable solutions. With 30 offices worldwide through subsidiaries and partners, we are always at your side.

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