

#accuracy

#versatility

#durability

# LaseTVM-3D-M

## Truck Volume Measurement

Accurate load volume and profile measurement





# LaseTVM-3D-M

## Truck Volume Measurement [MOTION]



The application LaseTVM-3D-M [MOTION] is an accurate three-dimensional laser measurement system for the automated and dynamic measurement of truck load volumes on the fly without stopping. The application has a high versatility and can be used for volume and profile measurements of all different materials such as stones, sand, ore or even wood materials - also in rough environments.



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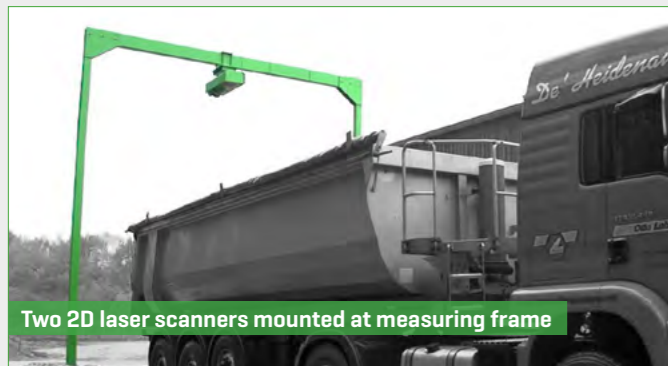
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### Reliable and accurate truck load measurement

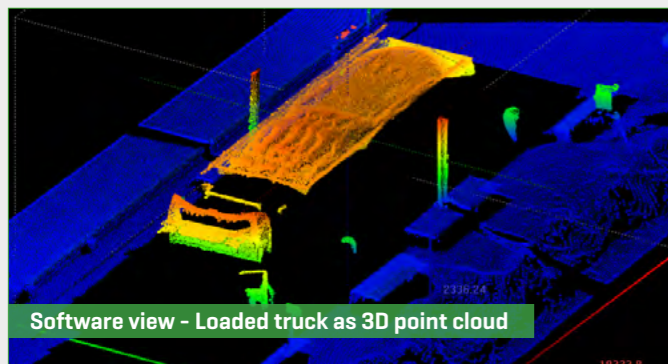
In order to measure load volumes on trucks with high accuracy, two 2D laser scanners from the **LASE 2000D-11x Series** will be used in combination with the **LaseTVM-3D-M** software application. This product enables a dynamic measurement of the load volume without stopping the truck.

The laser scanners are mounted on a frame or pole in a central position above the truck lane. One laser scanner measures the cross profile of the load and the other laser scanner tracks the truck. When a truck drives through the measuring area a 3D image of the load is generated. The difference between the current material load and the empty truck gives the exact loading volume.

The application is also available in combination with a RFID Scanner [for tagged trucks], a HD camera for documentation and a OCR camera for license plate capturing.



Two 2D laser scanners mounted at measuring frame



Software view - Loaded truck as 3D point cloud



Orthogonal scan planes across the truck lane



Hardware with two 2D laser scanners, RFID and HD camera

### CUSTOMER BENEFITS AND FEATURES:

- ✓ Automatic payload measurement
- ✓ No queuing
- ✓ Traditional weight measurements can be manipulated by humidity (up to 20% of the volume)
- ✓ Easy and fast installation
- ✓ Exclusion of weight and volume manipulations
- ✓ Highly exact laser measuring system [\*accuracy typically ca. 2%]
- ✓ Instant volume acquisition without conversion factors

### ADDITIONAL OPTIONS:

RFID truck identification / OCR truck identification / HD camera for load pictures





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