

LaseTVM-3D-M

TRUCK VOLUME MEASUREMENT (MOTION)

The LaseTVM-3D-M (MOTION) is a highly accurate 3D laser measurement system for automatic and dynamic measurement of truckload volumes during a passage. The measurement system has high versatility and is used for volume measurement of various materials such as stones, sand, ore or wood products.

THE MEASUREMENT SYSTEM

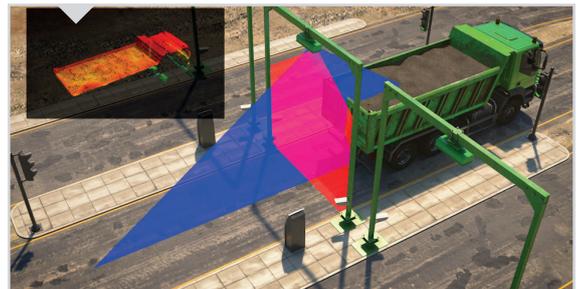
To measure the load volume on trucks reliably and with highly accurate, two 2D laser scanners are used in combination with the LaseTVM-3D-M application software.

LaseTVM-3D-M enables dynamic measurement of the load volume without stopping the vehicle. The laser scanners are mounted on a frame or boom in a central position above the truck lane. One laser scanner measures the transverse profile of the load, and the other laser scanner does the tracking of the truck. The truck is measured once empty and once full. Which measurement takes place first depends on the process. The difference between the full and empty truck measurements gives the exact loading volume.

The system is also available in combination with an RFID scanner (for trucks with RFID tags), a HD camera for documentation and an OCR camera for license plate recognition, so that all data is captured with just one application.



The weather-resistant laser scanners are mounted on a frame or boom in a central position above the truck lane.



Two 3D profiles of the empty and filled (mining) truck are used to calculate the volume.

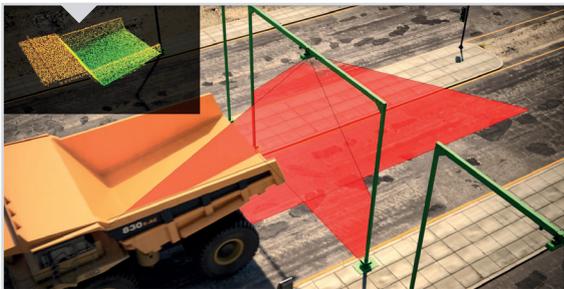
THE FEATURES

- ✓ Automatic load volume measurement
- ✓ WebPortal for remote access
- ✓ Easy and fast installation
- ✓ Highly accurate laser measurement system (accuracy typically approx. 2%)

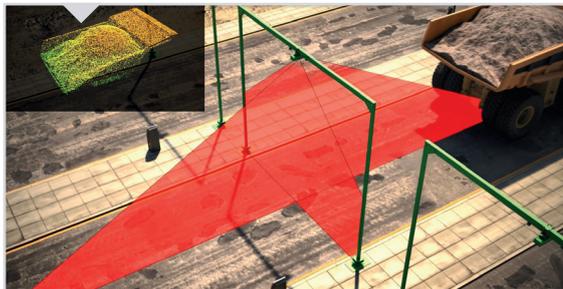
THE BENEFITS

- ✓ Instant volume measurement without conversion factors
- ✓ No queuing
- ✓ Exclusion of weight and volume manipulation, as traditional weight measurements can be affected by moisture (up to 20% of volume)

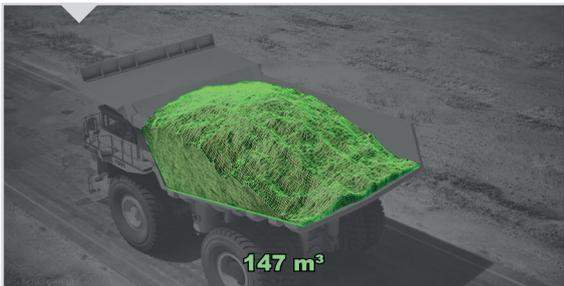
THE FUNCTION PRINCIPLE



The empty (mining) truck drives through the frame. The surface of the loading area is scanned.



A second scan plane is captured from the filled (mining) truck.



The volume is now calculated from both scan planes.

WATCH
THE
PRODUCT
VIDEO



Scan the QR code with your mobile phone. Discover the product video and more innovative solutions from LASE!

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.