

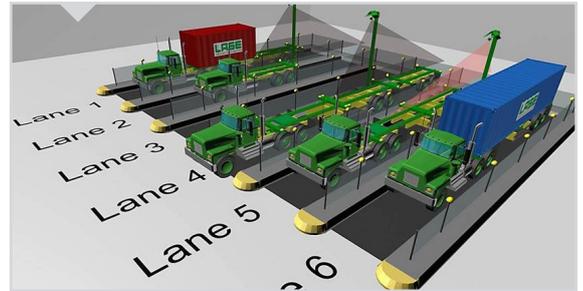
# LaseTDS

## TWISTLOCK DETECTION SYSTEM

The LaseTDS solution was developed to enable fully automated loading and unloading of containers from or onto truck trailers in ASC's truck transfer areas.

### THE MEASUREMENT SYSTEM

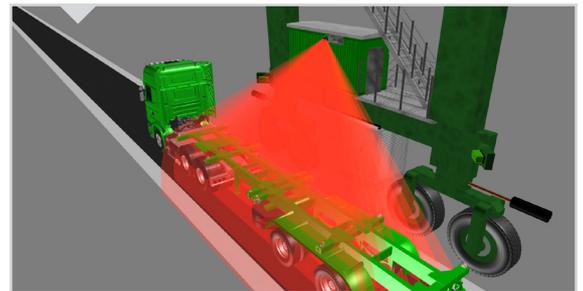
In this measurement system, a 3D laser scanner is installed on a steel mast (height: approx. 7 m), which is located between two transfer lanes of the landside transfer area. For a transfer area with a size of, e.g. six lanes, three 3D laser scanners are installed on columns. The laser scanners are connected via an Ethernet interface to a corresponding LASE Control Unit (LCU) running LaseTDS application software. The measurement data for twistlock detection is forwarded to the ASC control system as measurement results for the unloading or loading positions. Further features of the intelligent and innovative solution are accelerated and fully automated container handling, as well as material-friendly container or spreader drop-off.



LaseTDS scans the empty and full trucks. Two sensors are mounted on a mast.

### AUTOMATED TRUCK HANDLING

LaseTDS enables automated container handling between cranes and trucks. It is a proven solution for automating landside terminal operations. LaseTDS is used to measure the chassis twistlocks and the location of the chassis. The LaseTDS improves safety and is cost-efficient by eliminating the need for personnel to be present in the in-feed zone or end-fed zone.



LaseTDS-RTG-RMG: The sensor is located directly on the crane.

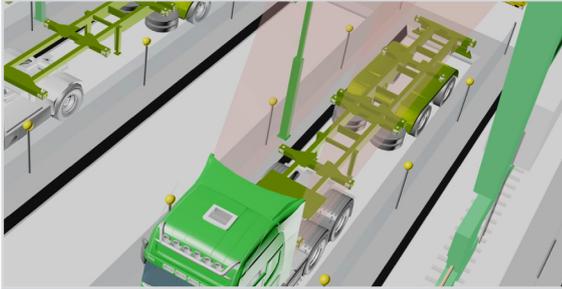
#### THE FEATURES

- ✓ Processing of up to 2 lanes per scanner
- ✓ Calculation of centre position and skew angle
- ✓ Forwarding of results to the ASC control system
- ✓ Twistlock detection measurement
- ✓ Twistlock position measurement

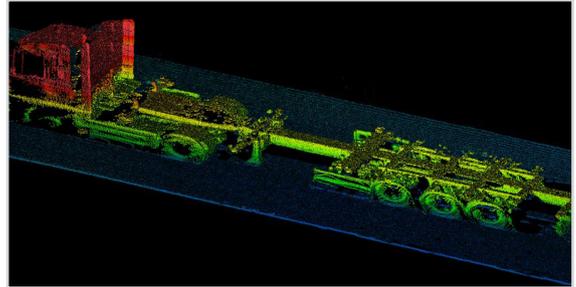
#### THE BENEFITS

- ✓ Precise twistlock detection on the trailer
- ✓ Obstacle and error detection
- ✓ Efficiency increases in the landside area
- ✓ Savings in labour costs

## THE FUNCTION PRINCIPLE



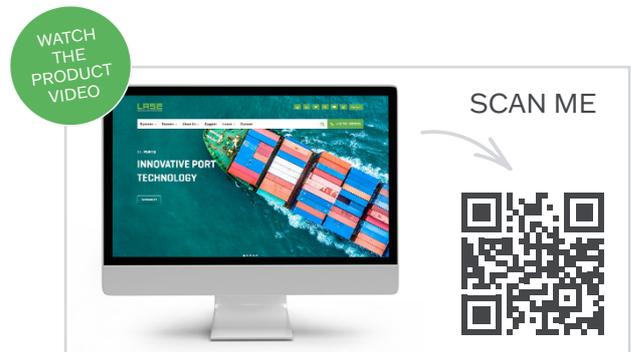
LaseTDS scans the truck while it is in between two transfer lines.



The software creates a 3D profile of the empty truck.



With the help of the scan data, twistlocks are detected.



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.