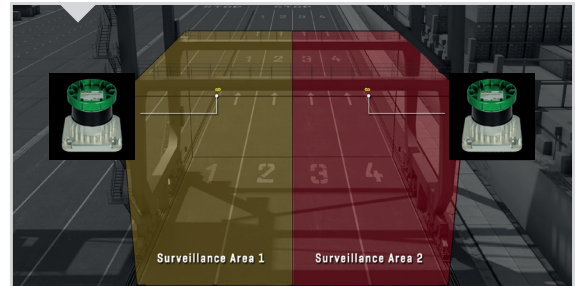**product data sheet**

LaseTPS-ML
TRUCK POSITIONING SYSTEM MULTILAYER

LaseTPS-ML is a 3D laser measurement system for accurate truck positioning. It was developed for RTG, RMG and STS cranes, automatic trucks, and AGV positioning.

THE MEASUREMENT SYSTEM

The LaseTPS-ML solution was developed to enable fully automatic truck positioning under RTG, RMG and STS cranes. The use of robust and state-of-the-art multilayer laser technology aims to determine the positions of trucks, trailers, AGVs or containers. This enables accurate truck positioning for container loading and unloading. Depending on the crane type, the measuring system consists of one or multiple multilayer laser scanners.

For large gantries or portals, e.g., STS cranes with many lanes, multiple multilayer scanners are mounted above the lanes below the portal beams to measure the lanes three-dimensionally along the direction of travel in the gantry. The LaseTPS-ML measurement system is primarily designed for RTG, RMG and STS container cranes and serves both the safety of the stevedores and an efficient workflow during container handling. The LaseTPS-ML could also be introduced in other LASE multilayer scanner applications as part of whole solution.

Retrofit solution: For example, the scanners are attached to a crane's crossbeam.

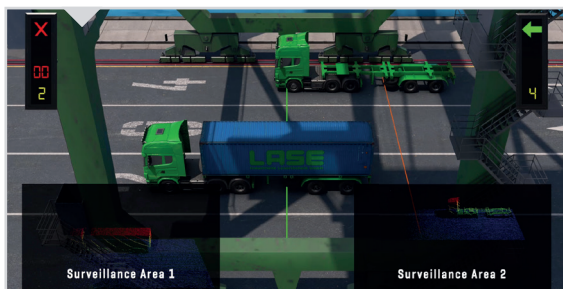LaseTPS positions the truck optimally for un- and loading.

THE FEATURES

✔ Accurate 3D positioning of trucks, containers or AGVs
✔ Be used for single or double spreaders
✔ Positioning in crane and trolley axis and rotation around the height axis
✔ Pre-positioning of the spreader easily adaptable also for retrofit measures
✔ Cabin detection
✔ Dual cycle capable (two trucks next to each other)

THE BENEFITS

✔ Acceleration of container handling
✔ Exact vehicle positioning due to state-of-the-art laser technology
✔ Increased safety (as no personnel is required for instruction)
✔ Supports fully automated container handling
✔ Easy installation
✔ Retrofit or OEM product

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THE FUNCTION PRINCIPLE

The system ensures the optimal positioning. To do this, it uses reference values of the crane and the truck.

A display shows the deviation from the optimal position.

The truck is in the right position, the crane now optimally aligns the container.

The new LASE multilayer scanner.

WATCH THE PRODUCT VIDEO

SCAN ME

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 port sector. With our 1D, 2D, 3D and multilayer sensors as well with our high sophisticated application software, our systems stand for more accurate, safe and efficient container handling. Our goal is to drive the automation of the port industry forward. With 30 offices worldwide through subsidiaries and business partners, we are always at your side.

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