

LaseYC-MF-2

MULTI-FUNCTIONAL MEASUREMENT SYSTEM FOR YARD CRANE

LaseYC-MF-2 is a multi-functional laser measurement system based on multilayer laser scanner technology. The measurement system covers the following functionalities:

- » LaseCP - Cabine Position
- » LaseTMD - Truck Movement Detection
- » LaseTPS - Truck Positioning System
- » LaseASTO - Area Surveillance Truck Operation

THE MEASUREMENT SYSTEM

The system is based on two multilayer laser scanners installed below the portal girder above the truck lane. The sensors are connected to a LASE Control Unit (LCU) with the application software. Observing the area in the truck lane makes it possible to cover all the above-mentioned functions.

THE CORE FUNCTIONS

LaseCP - Cabine Position

During the container drop process to the chassis, the measurement system checks whether the truck's cabin is outside the operation area of the spreader resp. the container.

LaseTMD - Truck Movement Detection

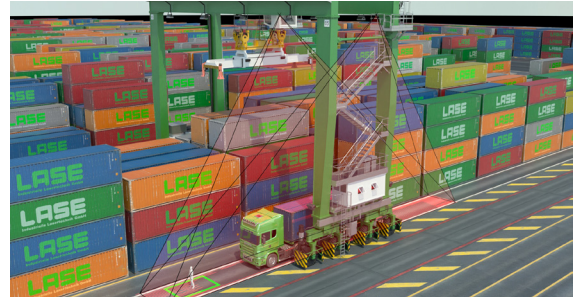
During the loading and unloading process, the measurement system detects when the truck is moving.

LaseTPS - Truck Positioning System

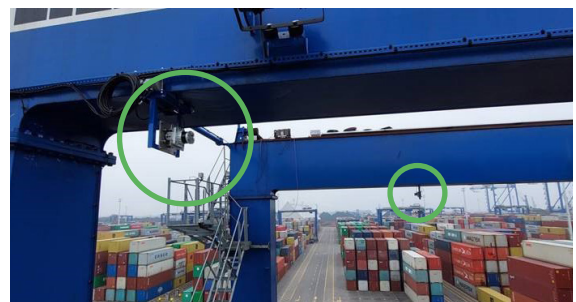
The measurement system measures the position of the chassis and the container on the chassis. It gives feedback to the truck driver via a digital display about his relative position in the crane's centre.

LaseASTO - Area Surveillance Truck Operation

During the chassis loading process, the measurement system observes whether there are people around the truck to raise the alarm when this is the case. Hoist motion will then be stopped.



Mounting positions of the laser scanner.



Field of view for the scanner. Observing 270° the environment.

THE FEATURES*1

- ✓ LaseCP - Cabine Position
- ✓ LaseTMD - Truck Movement Detection
- ✓ LaseTPS - Truck Positioning System
- ✓ LaseASTO - Area Surveillance Truck Operation

THE BENEFITS

- ✓ High functionality with a reduced amount of sensors
- ✓ Reasonable solution
- ✓ Modular usage of the functions
- ✓ Safety
- ✓ Easy installation
- ✓ Support Manual, Remote and Automatic Operation

*1 The customers have to choose, which functions they would like to use!

THE FUNCTION PRINCIPLE



The sensors observing the area in front of the crane.



The Sensors observe the area in the lane.



The system sends a warning signal to the crane operator as soon as a collision is imminent.

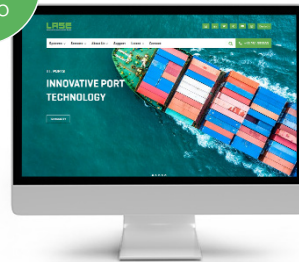


The application determines the distance to the ground and automatically reduces the speed.



The system helps set down the goods gently, thus protecting the container and truck.

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.