

LaseYC-MF-3

MULTI-FUNCTIONAL MEASUREMENT SYSTEM FOR YARD CRANES

LaseYC-MF-3 is a multi-functional laser measurement system based on multilayer laser scanner technology. The measurement system covers the following functionalities:

- » LaseTLP - Truck Lifting Prevention
- » LaseCP - Cabin Position
- » LaseTMD - Truck Movement Detection
- » LaseESD - Empty Space Detection
- » LaseASTO - Area Surveillance Truck Operation

THE MEASUREMENT SYSTEM

The system is based on one multilayer laser scanner installed in the middle of the gantry beside the truck lane. The application software connects the sensor to a LASE Control Unit (LCU). Observing the area within the truck lane makes it possible to cover all the abovementioned functions.

THE CORE FUNCTIONS

LaseTLP - Truck Lifting Prevention

During the lifting of the container, the measurement system tracks the container and the structure of the chassis. When the chassis and container go upwards, the measurement system detects a lifting of the chassis and sends an alarm signal to the crane PLC.

LaseCP - Cabin 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.

LaseESD - Empty Space Detection

Before and during dropping a container, the system measures/detects whether the space on the chassis is empty.

LaseASTO - Area Surveillance Truck Operation

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



Mounting position of the laser scanner.



Mounting on the side of the RMG looking over the fence.

THE FEATURES

- ✓ LaseTLP - Truck Lifting Prevention
- ✓ LaseCP - Cabin Position
- ✓ LaseTMD - Truck Movement Detection
- ✓ LaseESD - Empty Space Detection
- ✓ LaseASTO - Area Surveillance Truck Operation*1

*1 There is limited ASTO function due to the limited view on the truck/chassis side on the side facing the yard in case a container is on the chassis.

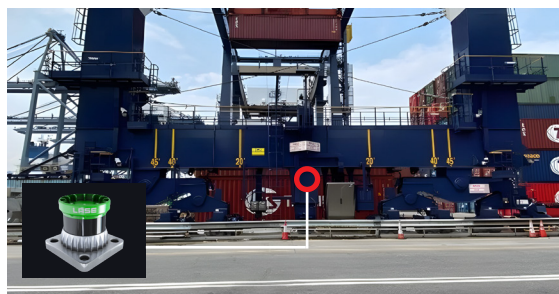
THE BENEFITS

- ✓ High functionality with a reduced amount of sensors
- ✓ Reasonable solution
- ✓ Modular usage of the functions
- ✓ Safety
- ✓ Easy installation
- ✓ Support Manual, Remote and Automatic Operation
- ✓ The customers can choose which functions they would like to use!

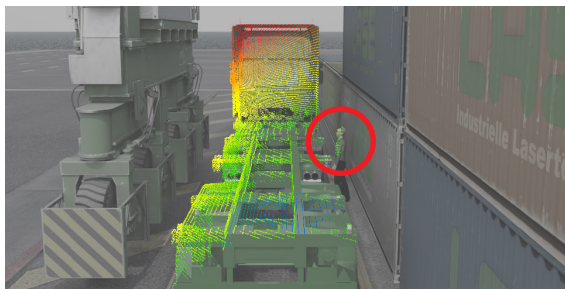
THE FUNCTION PRINCIPLE



The sensor mounting place.



The sensor observes the area in the lane.



LaseASTO function detects a person on the opposite side of the chassis.

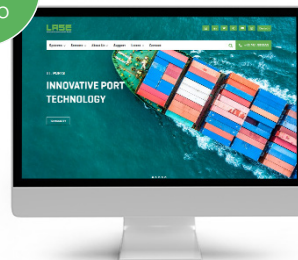


The scanner is looking over the fence.



LASE multilayer scanner.

WATCH
THE
PRODUCT
VIDEO



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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.