

LaseAYC-2

AUTOMATIC YARD CRANE

LaseAYC-2 is used at a container terminal operation with fully automated container handling in ASC storage yard areas. The measuring system is designed for use on ASC (aRMG) and aRTG stacking cranes. The 3D laser measurement system is capable of supporting automatic truck and wagon handling in transfer areas in an extended function.

THE MEASUREMENT SYSTEM

In addition to the control cabinet, IPC and application software, the 3D measurement system consists of two 3D laser scanners of the LASE 3000D Series. Both 3D scanners are installed at a specified distance from each other under the trolley of an automatic stacking crane. The scan data of the 3D scanners enable an exact three-dimensional position measurement of containers in the stack, on truck trailers, wagons or AGVs. The LaseAYC-2 system is used for the automation of container handling and optimized operation of ASC container yards.

THE CORE FUNCTIONS

The 3D position measurement detects the four corners of the container via the long upper sides of the containers and thus the position of the corner castings. This enables high-precision pick-up and set-down tasks to be performed during stacking crane operation.

The basic function of the LaseAYC-2 measuring system includes automatic container handling, i.e. picking up and setting down containers in the container stack. Its function can be extended to include picking up and setting down containers from trucks or wagons. In addition to the stacking functions, the system also serves as a collision prevention system and prevents collisions of containers on the spreader with containers in the stack. Furthermore, the system prevents hard settling of containers, which reduces noise, wear and tear and maintenance.



Increase the safety and utilisation of your crane system with LaseAYC-2.



Retrofit solution: Two 3D scanners are installed under the trolley of an automatic stacking crane.

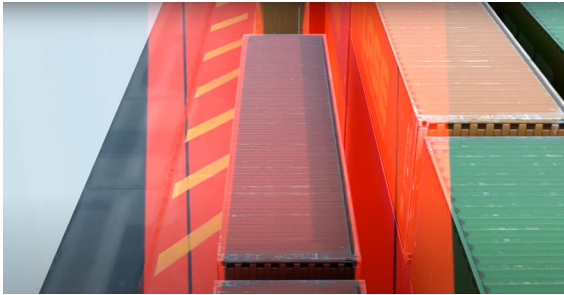
THE FEATURES

- ✓ Automatic pick up and set down in the container stack
- ✓ Advanced function of picking up and setting down containers from trucks or wagons
- ✓ Position and skew measurement of the container for accurate set down and stacking operations
- ✓ Position measurement of trucks / trailers / AGVs and containers in transfer areas
- ✓ Applicable for ASCs (aRMGs) and aRTGs
- ✓ Uninterrupted and safe container handling

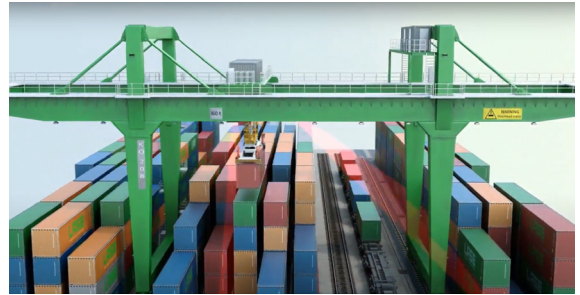
THE BENEFITS

- ✓ Collision free lowering of the spreader / load into a container slot
- ✓ Collision avoidance in trolley drive in own as well as in neighbouring stacking areas
- ✓ Gentle container handling due to soft landings and low wear of the spreader
- ✓ Additional function: Auto truck and wagon handling

THE FUNCTION PRINCIPLE



The sensors detect the four corners of the container and position the spreader optimally.



LaseAYC-2 scans the surroundings and detects nearby containers.



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

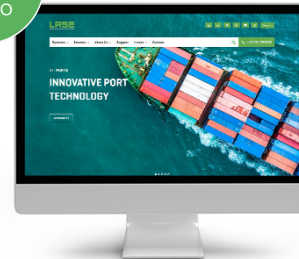


The application determines the distance to the ground and automatically reduces the speed.



The system helps to set down the goods gently and thus protects the container and truck.

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 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.