PORT INDUSTRY

LaseLCPS-2D

LOAD COLLISION PREVENTION SYSTEM 2D

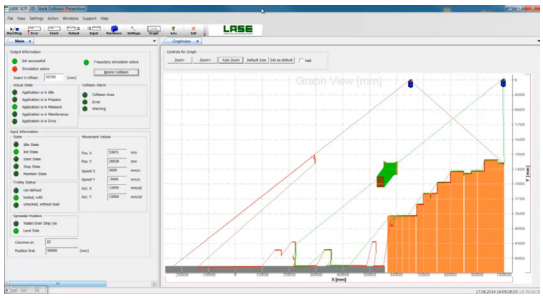
LaseLCPS-2D is a measuring system developed for cranes to avoid collisions of containers in the stack in the trolley travel direction, i.e. the row in which a stacking process takes place. By means of the integrated soft-landing function, it serves to set down containers quietly with reduced wear, which leads to a reduction of maintenance.

THE MEASUREMENT SYSTEM

The LaseLCPS-2D system consists of a control cabinet with PC and software and two 2D laser scanners, which are mounted under the crane's trolley and form a vertical scan plane above the containers.

Two laser scanners are mounted on both sides of the trolley for topographic 2D detection of the containers in a container stack. The laser scanners measure the height of the container stacks in all rows. The system measures the position of the spreader or the height of the container at the spreader via the so-called spreader tracking function. The measuring system automatically decides whether there is a possible risk of collision. In addition, the topography of the stack, i.e. the height profile, is permanently measured. Based on this topographical information, collision points are automatically and dynamically recorded and a surveillance cube is created that represents the virtual safety area in both trolley travel directions.

The sensors continuously measure the distances to surrounding containers to avoid collisions.



The application detects the height differences to surrounding objects.

THE FEATURES

- Height profiling of the container stack
- Spreader tracking
- Modern 2D laser measurement system

THE BENEFITS

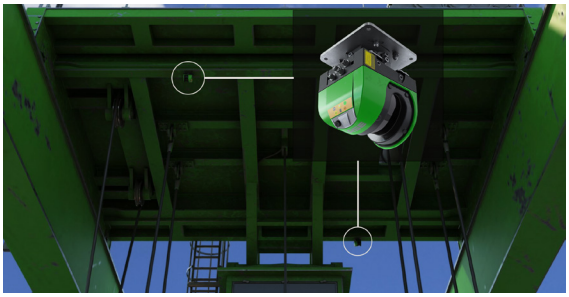
- Collision prevention in the stack in cross travel direction
- Soft landing function for noise- and wear-reduced setting down of containers
- Collision prevention in the stack in operating bay trolley drive direction

LASE
Industrielle Lasertechnik GmbH

Tel.: +49 (0) 281 95 990 0
Mail: info@lase.de
www.lase-solutions.com

THE FUNCTION PRINCIPLE

Falling containers not only pose a danger to life, but also cause enormous costs.



Retrofit solution: The LaseLCPS-2D sensors are mounted underneath the trolley.

The sensors continuously monitor the working area.

They continuously measure the distance to adjacent containers.

An alarm signal is triggered in the event of an imminent danger situation.

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.

LASE
Industrielle Lasertechnik GmbH

Tel.: +49 (0) 281 95 990 0
Mail: info@lase.de
www.lase-solutions.com