

LaseSPC

STRADDLE CARRIER POSITIONING CRANE

LaseSPC is a 2D measurement system consisting of one or two 2D laser scanners mounted on either the water-side or land-side crossbeam of the crane.

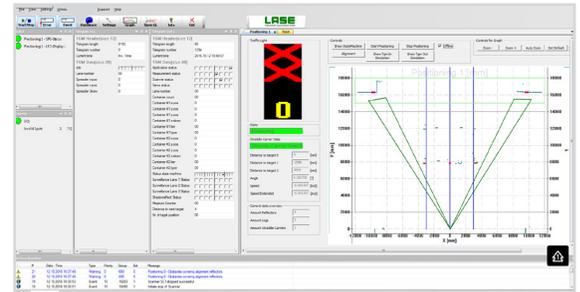
THE MEASUREMENT SYSTEM

To ensure the measuring function, the straddle carriers in operation are equipped with two reference strips per drive girder. As soon as the straddle carrier is in front of the crane portal, the measuring system detects the straddle carrier, which then calculates its exact position.

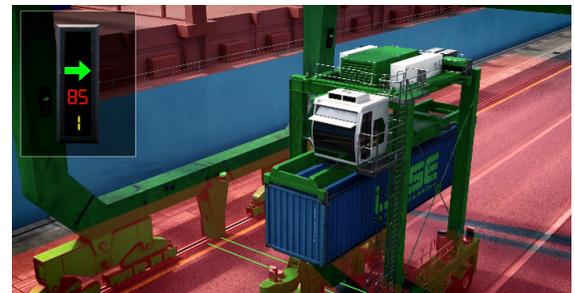
Once the straddle carrier has been detected, the driver receives feedback via LED displays on his relative position to the centre of the crane and from one meter to the final target position, also a distance value is indicated. Necessary corrections to the position are displayed as a numerical value to guide the operator to drive forward or backwards, thus holding at the ideal position. The system provides accurate positioning of straddle carriers and is also suitable for multi-lane operation when using two 2D scanners, whereby two straddle carriers can be positioned simultaneously.

LaseSPC-STC: SAFE TRAFFIC CONTROL FUNCTION

In an additional function, measured scan data of the position of the straddle carrier can be forwarded to the crane control system to prevent the spreader from being lowered into the lane of the straddle carrier operation or to block the passage of individual lanes in which the spreader is operating. This is realized by traffic lights installed above the lanes.



An overview of the software: customised and structured.



LED displays show the forward and backward deviations for adjustment.

THE FEATURES

- ✓ Suitable for multi-lane operation (max. 2 x straddle carriers simultaneously)
- ✓ With 2 x 2D laser scanner
- ✓ Safe Traffic Function
- ✓ Intuitive commissioning and maintenance tools

THE BENEFITS

- ✓ Highly accurate positioning of straddle carriers under STS crane systems
- ✓ Speeds up the transfer of the load
- ✓ Especially suitable for crane retrofitting
- ✓ Simple feedback via LED display on reaching the target position
- ✓ Multiple positions for 40" and 20"

THE FUNCTION PRINCIPLE



The straddle carriers in operation are equipped with two reference strips per drive girder.



A scanner is located at the crane portal that detects the position of the straddle carrier.



LaseLCPS-STC: Illustration of the traffic light function for the straddle carrier.

WATCH
THE
PRODUCT
VIDEO



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 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.