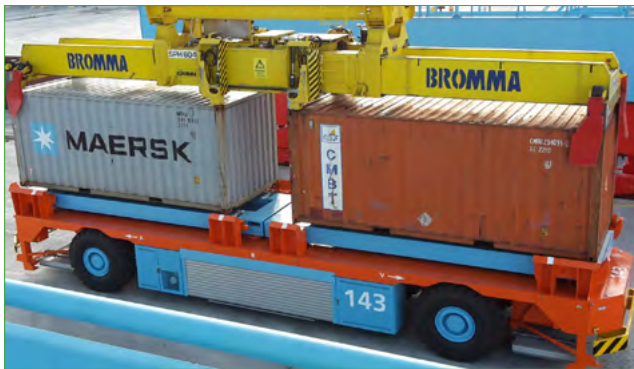




LaseAVP – Automatic Vehicle Position

Product module *CEWS* Container Logistics









The LaseAVP -Automatic Positioning Vehicle- measurement system is designed for STS-Crane operations for an efficient workflow in container handling while loading and unloading operations of vessels.

A 3D laser scanner from the LASE 3000D-C2-11x Series is mounted at the portal girder centrally above the lanes, whose projected scan plane detects AGVs in the chosen operation lane. When an AGV drives to the crane position the laser-based measurement system verifies, if an AGV is present at this position or not.

In for example semi-automatic operations, an AGV receives a position where it has to drive to carry or fetch a container [or two 20ft containers in twin-mode operation]. After arriving, the crane PLC triggers the LASE system to verify the exact position and to calculate the skew of a free slot or load on the AGV. For the further process of loading or unloading the system measures, if the AGV stands in a centric position under the crane trolley. The values for a centric position have a specific tolerance range and allow non-stop loading operations.

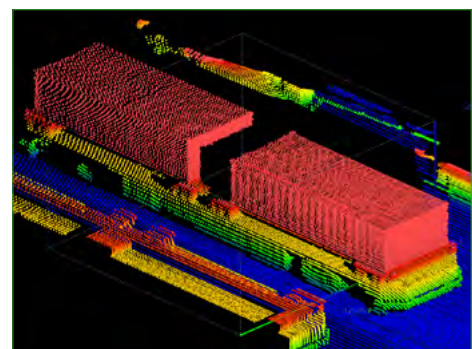
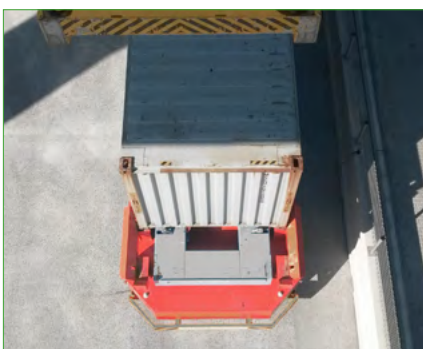
The application is able to position AGVs for all common container types, e.g. 20ft, 40ft and 45ft and is also applicable for twin-mode spreader operations under STS-Cranes.

Customer benefits & features:

-  3D position verification of container and AGV
-  Exact AGV positioning in up to three lanes
-  Supports fully automated container handling
-  Also useable for twin-mode spreader operations
-  Applicable for all container types [20ft, 40ft and 45ft]
-  Accelerated crane operations and productivity



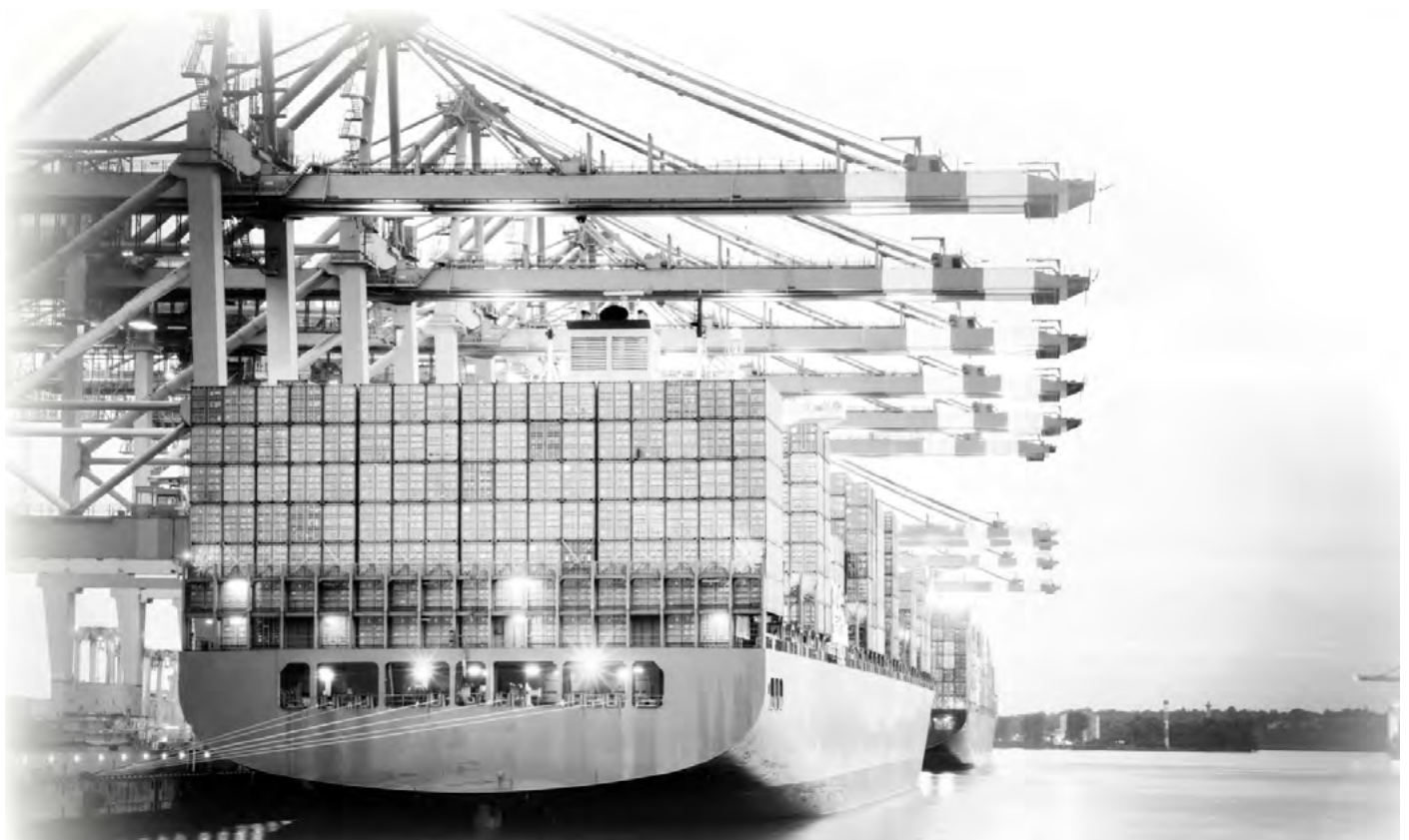
Function principle



LASE offers innovative and productive solutions by combining state-of-the-art laser hardware technology and sophisticated software applications. We deliver a broad range of precise and reliable 1D, 2D and 3D laser systems, which can be used for several measurement tasks.

We look to develop long-term relationships with our customers to drive projects forward and help improve safety and efficiency at a huge diversity of applications worldwide through working closely with them.

COMPETENCE, CREATIVITY AND PASSION lead us to be the ideal partner for your requirements. Convince yourselves of our broad portfolio of innovative products and solutions on our corporate website.



Product module **CEWS** Container Logistics

Note:

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