



# LaseCDI-GATE - Container Damage Inspection

Product module *CEWS* Container Logistics



The application LaseCDI-GATE - Container Damage Inspection is a solution applied for the automatic detection of damages while truck arrival at the front gate of the terminal.

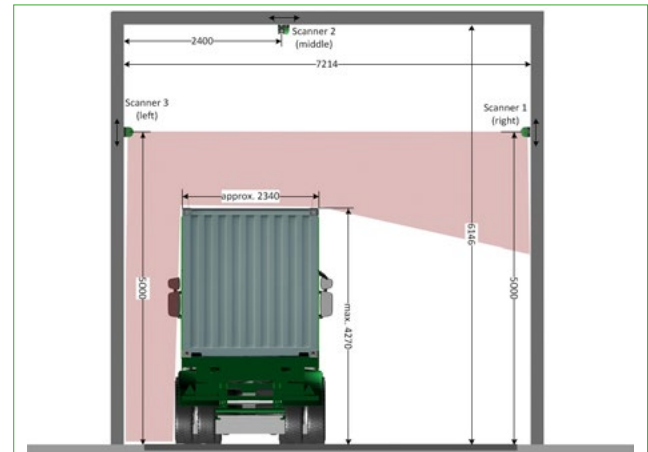
This combined 2D/3D measurement system generates side and roof profiles of the containers for an "active" detection of common structural damage types like dents, bulges, tears or holes in containers. The measurement system consists of three 2D laser scanners [LASE 2000D series] mounted on the frame of the OCR gate. This measurement system allows the container surfaces to be inspected without any delays when passing through the gate.

Out of the scan data the LASE software application generates an intelligent 3D profile and determines whether the container is damaged or not. The deformation cases are predefined within the application software. The automatic recognition of the damage is achieved by comparing the actual container to an ideal one and combining the results. The detected damage category, extent and location are displayed to the operator immediately.

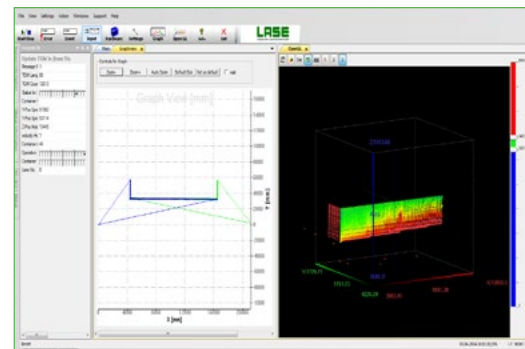
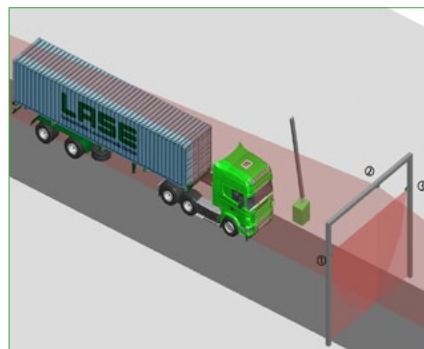
The LASE 2000D-11x laser scanners are the most suitable ones for this kind of surface inspection because of their excellent sensor criteria, accurate measurement results and fast scan performance.

### Customer Benefits & Features:

- 3D surface inspection
- Recognition of all structural damage types like dents, bulges, tears, holes and corner pockets
- Highly accurate
- Active damage inspection to support passive camera inspection [by OCR technology]
- Applicable during check-in at the Gate
- Ensures clear responsibilities and avoids claims
- Selective observation



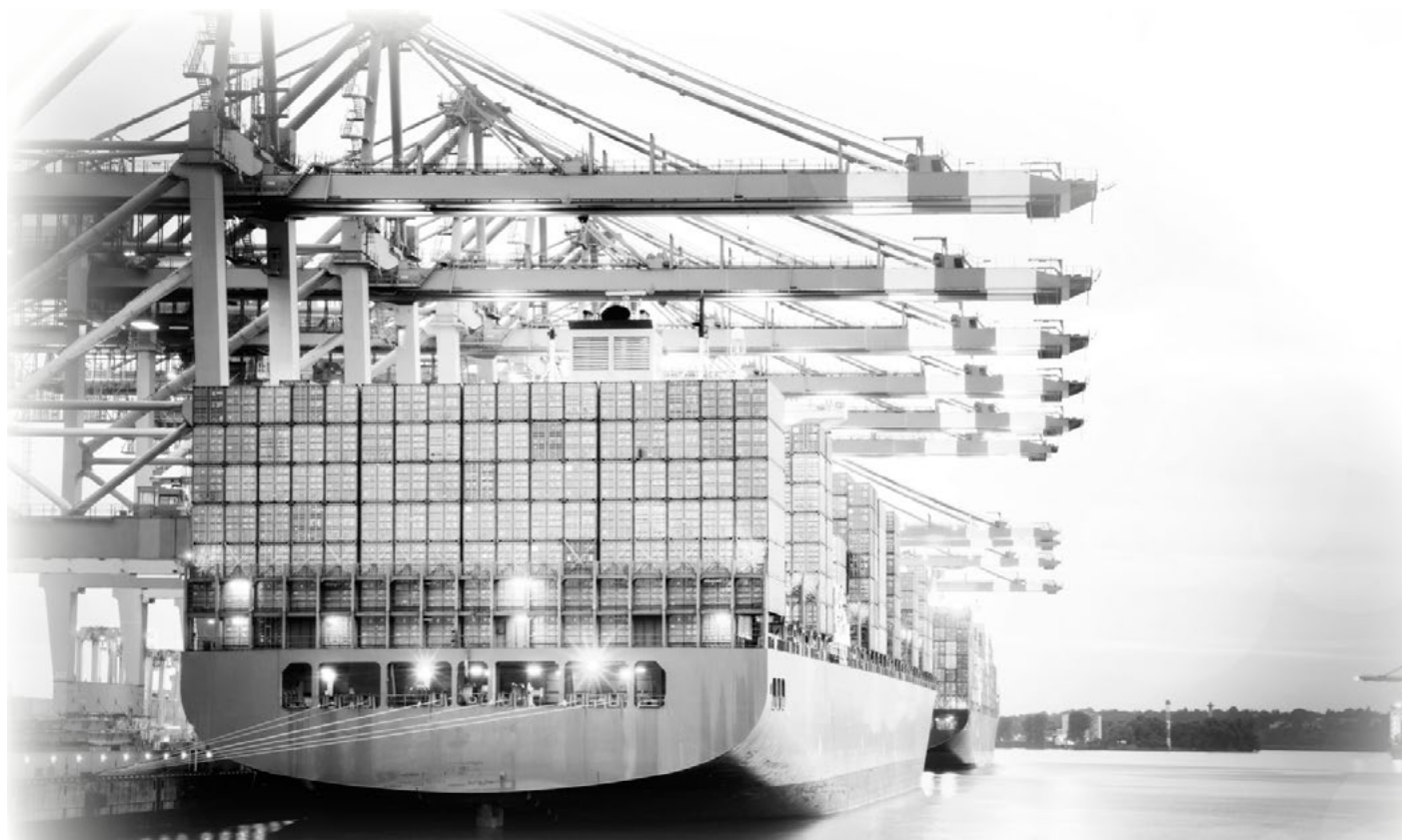
### Function principle



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:**

We reserve the right to proceed technical changes or modify the contents of this document without prior notice. LASE Industrielle Lasertechnik GmbH does not accept any responsibility whatsoever for potential errors or possible lack of information in this document. We reserve all rights in this document and in subject matter and illustrations contained herein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in part - is forbidden without prior written consent of LASE Industrielle Lasertechnik GmbH.

Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages

## Contact

**LASE Industrielle Lasertechnik GmbH**

Rudolf-Diesel-Str. 111  
46485 Wesel

Telefon: +49 [0] 281 - 9 59 90 - 0  
Fax: +49 [0] 281 - 9 59 90 - 111  
E-Mail: [info@lase.de](mailto:info@lase.de)  
Website: [www.lase.de](http://www.lase.de)

