



Container Check System

Double safety to prevent spreader lowering



Hydraulic powered mechanical blocking units for mast and spreader

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KALMAR - Container Checking System

Thoroughly inspecting containers is an important part of guaranteeing safe, uninterrupted logistics flow. Container damage is an ongoing possibility and can happen at any stage of its journey. The risk of an incident while lifting, moving and driving with a damaged container, is significant. The consequences for personnel involved can be severe. One part of the container is very difficult and potentially hazardous to access: the undercarriage. Kalmar's solution addresses these issues, allowing the container to be safely inspected from all angles.



Kalmar's container checker function for its Empty Container Handlers allows the lifting and locking of the container in a safe and ergonomically sound position. This enables effective and safe inspections on all sides and parts of containers, even underneath.

By inspecting and reporting any damage to the container, customers can ensure safer cargo handling for both their business and other partners who may need to handle and move the container. Customers can also avoid damage claims from others by having documentation of the inspections and the state of the container while in their care and responsibility – what it was like when it arrived and what it was like when it left the yard.

The system uses 2 hydraulic powered mechanical blocking units for the mast and spreader, dual safety sensors on the mast and a spreader positioning initiation and locking key functionality from the driver cabin.

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All driving, steering and mast movements on the empty container handlers are blocked for the duration of the checking process. The blocking sequence is completed <10 seconds, a fast process that will not be disruptive to daily operations. The unique Container Checker Solution was created and tested with HCS Hamburger Container Service GmbH

"Our first system that we used was not from Kalmar and needed more than 30 seconds to secure the machine with the container and could only handle 1 container at the time. The problem was that the drivers did not always use it because it took too long to activate and deactivate it. When we first talked about the idea (container check solution) with Kalmar we explained that we need a fast and safe working solution because otherwise the drivers will not use it. With the Kalmar Container checker solution we now need less than 10 sec to secure the container and the machine. Plus we can handle 2 containers during the checking process. The result for us is that we have a safe and fast working solution and the drivers use it. At the moment we are operating with 5 Kalmar DCG100-45ED7 with the Container Checker Solution and we will have 7 in February 2022."

Dr. Roland Karnbach, Managing Director at HCS

Kalmar sincerely hopes that this solution can contribute to more containers being properly inspected in order to eliminate any damaged containers from being in circulation and posing a safety risk for all handlers as well as risking damaging cargo handling equipment and container contents. This solution aims to help identify exactly who is responsible for any damage to a container and hold them responsible, which should help them to handle containers with more care in the future, reducing the overall damage rates and safety risks for the cargo handling industry.



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