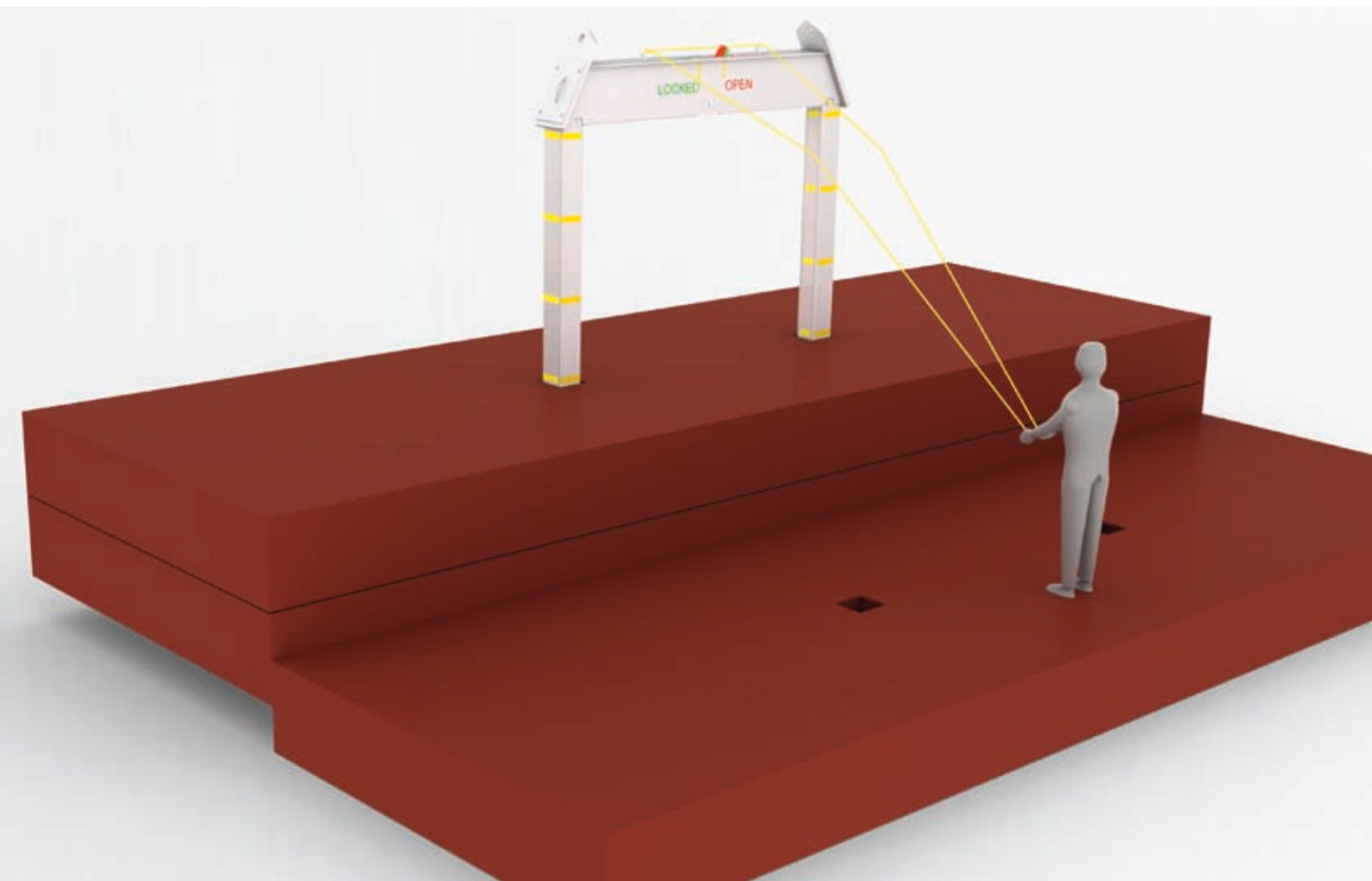


Tweendeck Panel Lifter

for the efficient operation of multiple
tweendeck lift-away panels



Tweendeck Panel Lifter

The Panel lifter is a new easy-to use and time-saving lifting device for simultaneously operating multiple tweendeck lift-away panels. It is designed for heavy-duty use in demanding marine environments.

Easy tweendeck panel operation

The crane-operated Panel Lifter brings benefits in the form of time savings and increased work safety. It is simple and light to operate and removes the need to climb on top of panel piles to attach lifting wires. Also crane time can be cut significantly.

The device is suitable for all ships with tweendecks and different sizes can be designed for different purposes. Our delivery includes everything that is needed in addition to the crane, provided that the tweendeck panels are equipped with suitable lifting slots and stacking cones. The system can also be retrofitted.

Operation and maintenance

The Panel Lifter can either be operated using a shipboard or a shore-based crane. The lifting consoles are locked and opened by control ropes which are attached to a lever. To make its operation simple and safe, the Panel Lifter has a switch indicator that is clearly colour coded so that the operator knows when the unit is open (red) or locked (green). The yellow lines guide the stacking operation. To eliminate misuse, a load detection system prevents the operator from opening the device when there are panels on it.

Storage

When not in use, the Panel Lifter can be stored onboard in any suitable place and in any position, provided it is securely lashed.

The Panel Lifter is designed and manufactured by Cargotec according to the rules of Germanischer Lloyd (GL). It is also type-approved by GL.

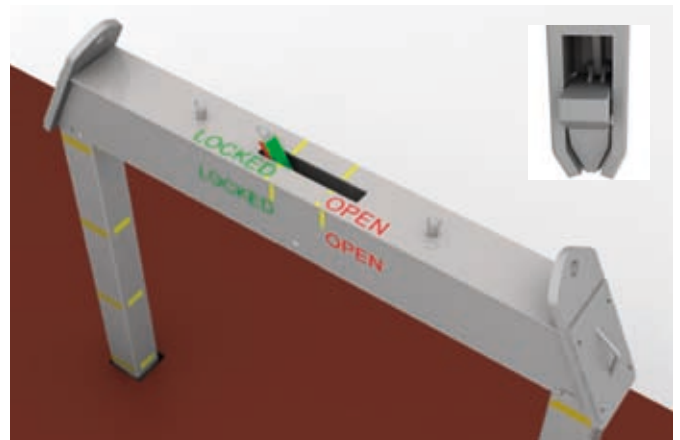
The unit has a simple, robust and maintenance-friendly design, with all grease nipples easily accessible



Designed to fill the following requirements:

- | | |
|--------------------------------------------------------------|----------------------|
| • Weight of covers to be lifted | 9,000kg/pc |
| • Safe working load (SWL) | 45,000kg |
| • Maximum number of panels that can be simultaneously lifted | 5 pcs |
| • Height of panels | 600mm/panel |
| • Space between panels | 10mm |
| • Width of panels | 3,160mm |
| • Length of panels | 10,200mm |
| • Ambient temperature above | -30°C |
| • Recommended operation heel | max. $\pm 0.3^\circ$ |
| • Operation trim | max. $\pm 2.0^\circ$ |

The Panel Lifter has a switch indicator that is clearly colour coded for ease of use (small picture: claw for lifting slot)



Lloyd's Register Quality Assurance certifies that the Quality Management System for Cargotec Corporation's business area MacGregor is ISO 9001 compliant.

Cargotec improves the efficiency of cargo flows on land and at sea - wherever cargo is on the move. Cargotec's daughter brands, Hiab, Kalmar and MacGregor are recognised leaders in cargo and load handling solutions around the world. Cargotec's global network is positioned close to customers and offers extensive services that ensure the continuous, reliable and sustainable performance of equipment.

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