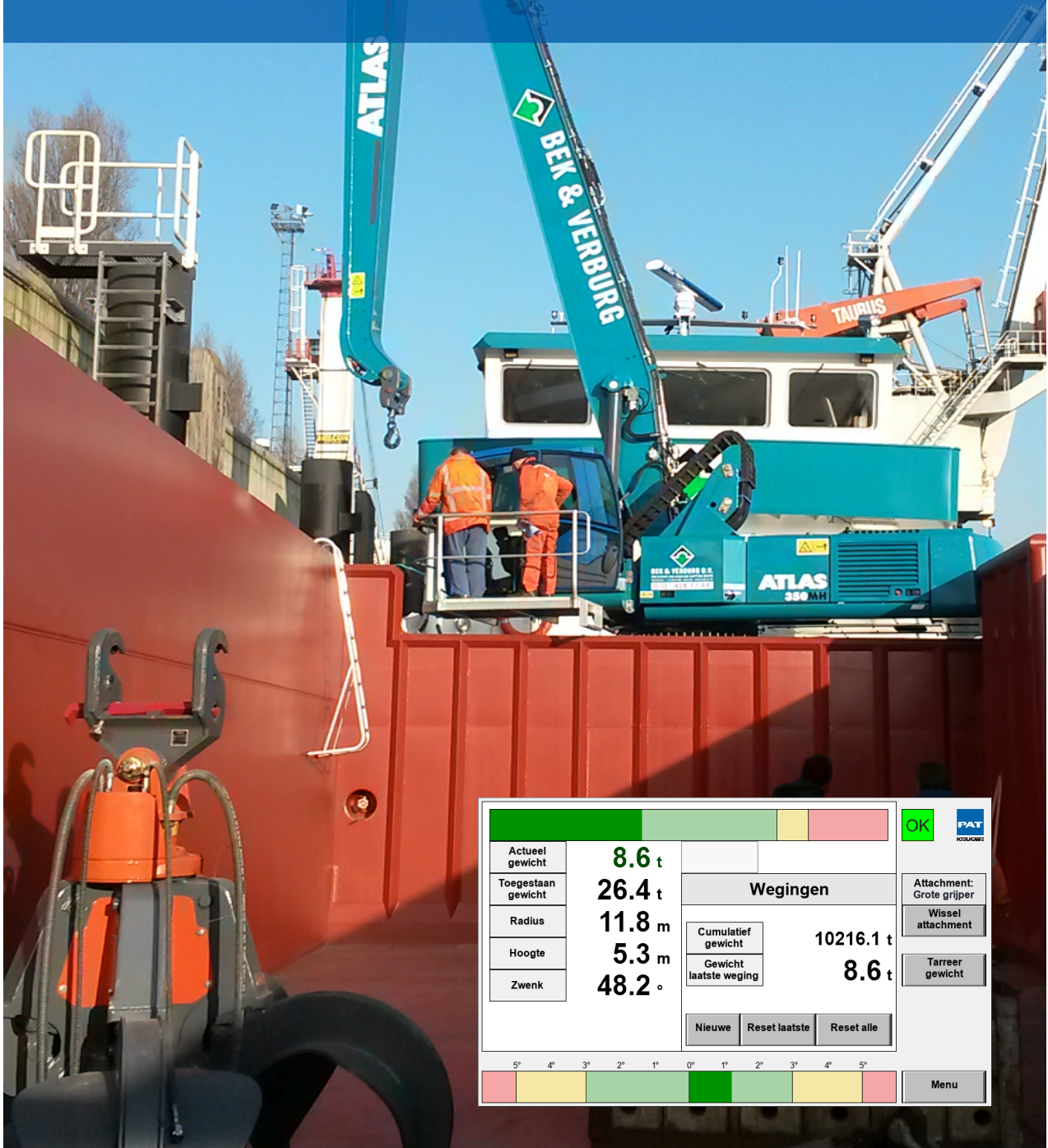



Marine Applications Material Handler ATEX



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Actueel gewicht	8.6 t	<table border="1"> <tr> <th colspan="2">Wegingen</th> </tr> <tr> <td>Cumulatief gewicht</td> <td>10216.1 t</td> </tr> <tr> <td>Gewicht laatste weging</td> <td>8.6 t</td> </tr> <tr> <td colspan="2"> <input type="button" value="Nieuwe"/> <input type="button" value="Reset laatste"/> <input type="button" value="Reset alle"/> </td> </tr> </table>	Wegingen		Cumulatief gewicht	10216.1 t	Gewicht laatste weging	8.6 t	<input type="button" value="Nieuwe"/> <input type="button" value="Reset laatste"/> <input type="button" value="Reset alle"/>	
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About the application:

Material Handler ATEX combines a safe load limiter, weighing and slew limiter. The control and engine part of the crane are located on deck, outside the ATEX zone. The boom however is working inside the cargo hold and the system is approved for ATEX zone 2.

Safe load limiter system: the system has 3 different statuses: green is safe, amber is pre-warning (last 10%) and red means overload. In case the actual load exceeds predefined settings, the system will stop movements.

From this situation, the load can only be reduced by lowering load to the deck/ground or reduction of the actual radius in order to decrease the load moment.

The system is equipped with a display showing the operator the actual load, permitted load, load moment, boom angle and the radius. Slave display for bridge can be fitted.

It is further possible to install a boom-tip camera or a bird-eye view camera system showing crane and its direct environment.

The weighing function is able to calculate the load. The accuracy is better than 97,5%.

In order to prevent possible collisions with the accommodation a slew limiter system is added.

For on deck an option is to install a big numeric display with 50m read out in daylight showing load/weight. Data-logging is standard. Dedicated data-analysing software (running on standard window-pc) enables users to search for events.

PAT-Krüger – Material Handler

Possible extensions:

- Bird-eye view camera system
- Boom-tip camera
- Big numeric display
- Data-analyser software
- Wind-speed/direction
- Inclination X-Y pane

