

**FOR IMMEDIATE RELEASE**

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## **SEE THE VIEW FROM THE HAWKS EYE**

In conjunction with TOC Europe Bromma - the leading spreader manufacturer,- will release the new spreader based camera platform Hawkeye.

Bromma Hawkeye is a platform of different camera configurations prepared and validated for different applications and for installation on all kinds of spreaders. The cameras generate video streams that can be used as-is on an operator display or further processed through additional Hawkeye Applications, such as Hawkeye OCR (Optical Character Recognition).

Cameras has over the past few years been installed and used in yard cranes and especially often in the gentle operation of automatic stacking cranes. Hawkeye stretches the application area of cameras significantly as the design and validation has been focused on the harsh environment of a STS crane spreader.

A significant part of the development of Hawkeye has been to identify how to mount cameras on a spreader. Protection of the cameras from impacts as well as methods for reduction of shock and vibration have been developed and verified.

Depending on the specific need and functionality the spreaders will be equipped with a suitable configuration of cameras. A setup for Hawkeye OCR on a spreader capable of twin-20 lifting will for instance include four cameras symmetrically installed under the main beam of the spreader.

The first two application introduced are Hawkeye Streaming and Hawkeye OCR.

Hawkeye Streaming is the basic application of transmitting the video signal(s) to the crane cabin and display the stream(s) on a monitor for driver aid. A specific application of this is a centrally mounted camera providing a real-time picture under the center of a twin-lift spreader giving the driver additional help to see when two 20 foot containers are being lifted in twin-mode.

Hawkeye OCR is a spreader based character recognition system for STS and Yard spreaders. In addition to the cameras, there is also a powerful computer processing the video signal to convert it to a character string to be sent to the crane cabin or to other systems.

## **About Bromma**

Bromma is the world leader in crane spreaders. In more than 50 years of continuous operations, Bromma has delivered crane spreaders to 500 terminals in 90 nations on 6 continents, and Bromma spreaders are in service today at 99 out of the world's largest 100 container ports. Bromma is the industry market leader in ship-to-shore spreaders, mobile harbor crane spreaders, and yard crane spreaders. A pioneer in the container handling industry, Bromma is focused on lifting the productivity of its customers through more reliable spreaders, Bromma's industry-leading all-electric spreaders and the new Cloud based Spreader Monitoring System, SMS.

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