

A large container ship is shown at night, illuminated by bright lights. The ship's hull is white with blue and red accents. A large red crane is visible on the deck. The ship is loaded with numerous stacked shipping containers in various colors, including blue, orange, and white. The containers have logos such as 'BROMMA', 'tex', and 'oxi' on them. The ship's name 'BROMMA' is also visible on the side. The background shows a dark sky and some industrial structures.

Driving Efficiency & Sustainability in Ports with Bromma

BROMMA

A blue shipping container is being lifted by an orange BROMMA crane. The container has a yellow warning label that reads "CAUTION 9.6 HIGH CONTAINER" and a white label with the text "CMAU 4680770". The crane has a black and orange striped safety pattern and the BROMMA logo. The background is a clear blue sky.

About Bromma:

Trusted Partner: We are privileged to support 99% of the World's Top Ports

Experience & Innovation: We have decades of experience and a strong tradition for Innovation

A reliable partner: We focus on delivering Quality & Safety

Global reach, Local support: We have an extensive global network committed to providing local support

Bromma portfolio: 3 Key drivers to support Terminal Excellence:

SMS
(Spreader Monitoring System)
DIGITALISATION

Web-based tool for monitoring spreader fleet health

VISION: HAWKEYE
OPTIMISE OPERATIONS

Vision technology and AI to optimise terminal operations

STS ELECTRICAL SPREADER
SUSTAINABILITY

Eco-friendly equipment portfolio to reduce environmental footprint.

Bromma Spreader Monitoring System

BROMMA

Bromma Demo Terminal

STS Spreaders

12

YARD Spreaders

12

STS spreaders productivity

Moves last 30 days

69555

Today

1253



YARD spreaders productivity

Moves last 30 days

48456

Today

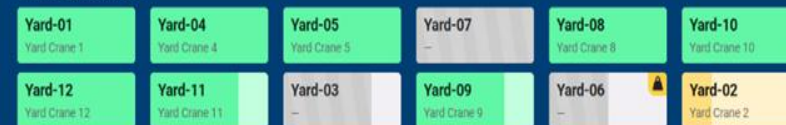
605



STS spreaders



YARD spreaders



Most Healthy First

Bromma SMS is a web-based tool for real-time spreader fleet monitoring

Spreader health Overview: A step forward to predictive maintenance

Troubleshooting where how



Get proactive

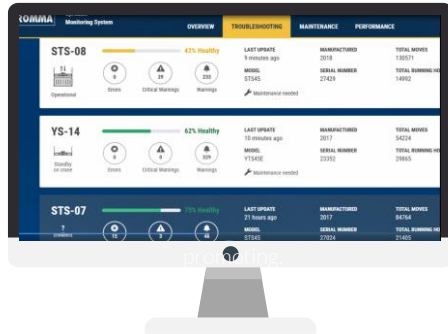


Know where to direct your efforts



Plan smarter maintenance

Real time control over Spreader fleet
Perfect tool to keep your spreader's health up & maximise uptime



Benefits for your Maintenance Team

- Avoid daily manual inspections
- Automate data collection
- Predictive Maintenance
- Preventive Maintenance
- Use your resources in the spreaders that need attention
- Tools to for easier diagnostics and proactive maintenance.
- Better decision-making with data-driven insights
- APIs available for integration

Benefits for your operations

- Improved operational efficiency
- Reduced costs
- Many other insights

Bromma Hawkeye

Innovative, spreader-based camera system designed to integrate advanced vision technology in spreaders

Strategic position for capturing data

Robust integration for reliability

Vision technology enhances spreader functionality, in addition to be the hands of the driver, it is also now his eyes, and, crucially, the perfect accurate data provider to fuel the terminal digital twin.

By providing real-time information about the spreaders' surroundings this technology significantly enhances productivity, improves process automation, and helps prevent costly operational failures

BROMMA

Integrating vision technology with spreaders

OCR for Container ID



Damage Detection

AI-assisted image capture
Faster, smarter inspections



Live Video Feeds

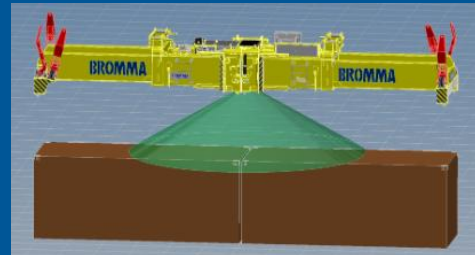
- Better visibility for operator
- Safer handling in any condition
- Drive assistance (AI)



BROMMA

TTDS Integration

Verifies twistlock engagement, enhances operational safety



Hawkeye supports terminal operations



Crane operator

- Video feeds/ Visual information(s)
- Safer operation
- Drive Assistance (AI)

BROMMA



Container handling

- OCR
- Data to TOS- Digital twin integration (AI, automation)
- Safety features helping to avoid risks and costs
- Container Damage Inspection



Automation

- Video feeds for automation
- OCR for automation
- Safety for TTDS
- Accurate data

Climate commitment

Bromma is committed to an initiative to limit global temperature rise to 1.5°C, by cutting down greenhouse emissions by **50 percent by 20230 from a 2019 base year**. To achieve these targets, we aim to reduce the carbon footprint across three different areas:

Products



Materials



Factory

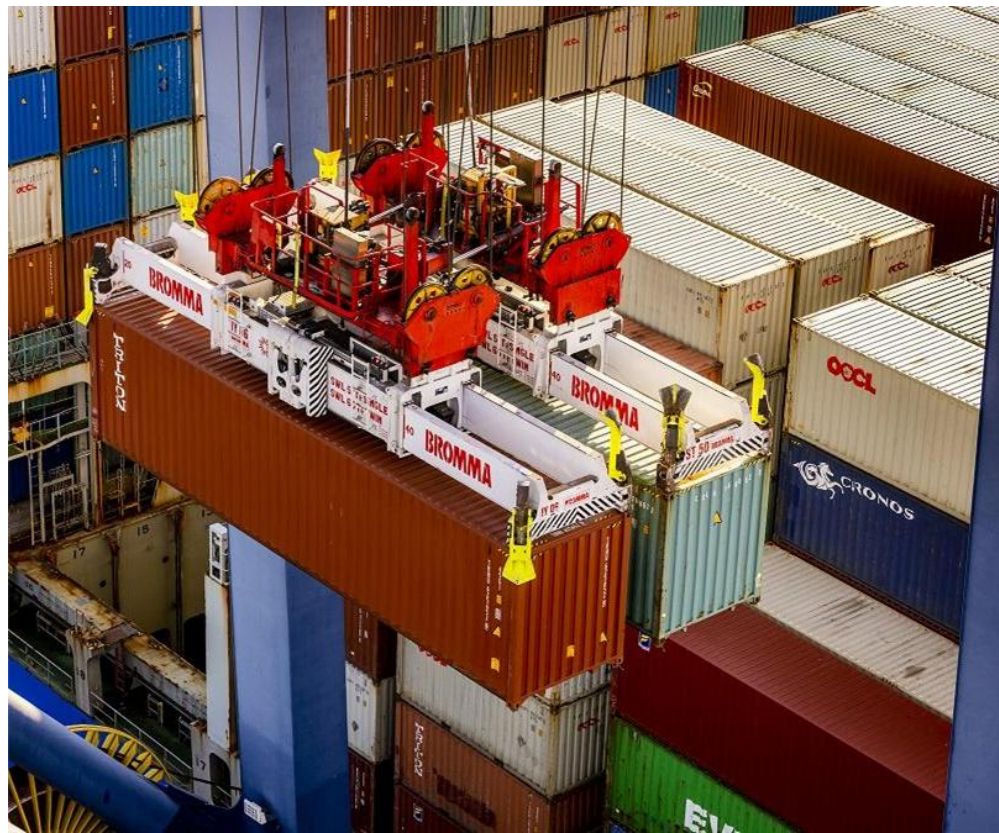


BROMMA

STS45E G2 PLUS

Boosting productivity while cutting costs & emissions

- **Cuts energy use by up to 90%** compared to traditional hydraulic spreaders
- **Significantly lowers CO₂ emissions** without compromising productivity
- **Reduces operating costs** with improved energy efficiency
- **Quiet operation**—silent when not in motion
- **No risk of hydraulic oil leaks**, ensuring a cleaner and safer work environment



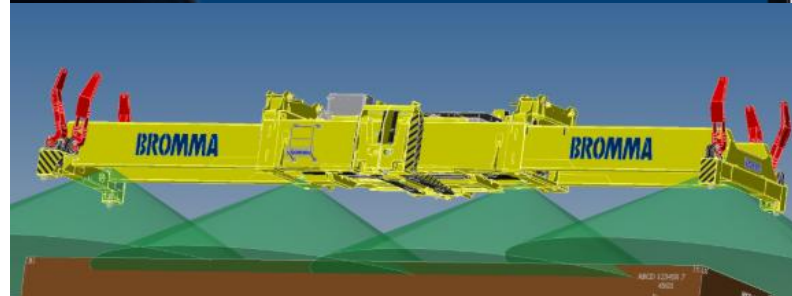


We boost Terminal Excellence:

SMS: DIGITALISATION and lower OPEX costs

Hawkeye: VISION TECHNOLOGY (to optimise Terminal Operations)

STS45EG2 PLUS: SUSTAINABLE



BROMMA

A Tradition of Innovation