Driving productivity through innovation

Enrique Marchessi



BROMMA: World leader since 1960

- Full range of spreaders and related software and services
- Supporting customers on all continents
- Largest market share in the world
- Ensuring reliable flow of containers on and off ships



Our portfolio





Ship-to-shore spreaders



Digital solutions



Yard crane spreaders



Services and maintenance



Mobile harbour crane spreaders



Spare parts



Mobile equipment spreaders



Refurbishments

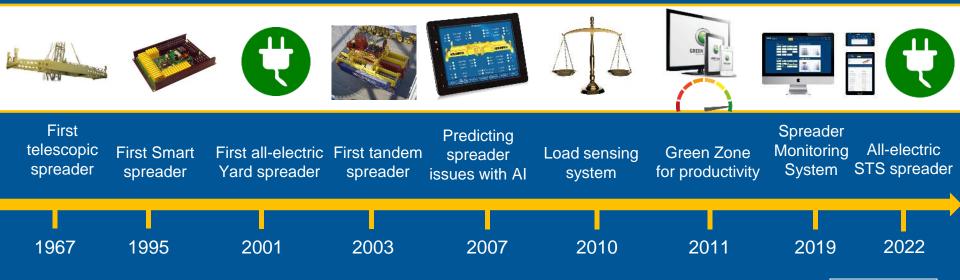


Training



A tradition of innovation

Join us on our journey of spreader technology breakthroughs – from 1965 to 2022 and beyond.





Bromma aim is to improve Terminals productivity through innovation:



Three Bromma innovations that drive productivity







1. Bromma Spreader Monitoring System - SMS

Real time management of your fleet



2. BROMMA CLIMATE COMMITMENT

Cutting down greenhouse gas emissions by 50% by 2030

3. Bromma Hawkeye

Innovative camera platform that offers to monitor operations in real-time, enabling to make datadriven decisions

1. Bromma SMS today



Bromma Spreader Monitoring System

A cloud and web-based system that provides an overview over the entire spreader fleet's health: real-time troubleshooting, maintenance planning and insight to operational KPI's

BROMN



- Customers reporting improvements in spreader productivity and valuable information on spreader issues
- New features added in 2022, including map view, Spanish language support, Insights, and API integrations





Case: Bromma SMS improving productivity at CSPV

CUSTOMER

CSP Iberian Valencia Terminal (CSPV) was one of the first terminals to adopt and start using Bromma's Spreader Monitoring System (SMS)

RESULTS

CSPV improved their daily routines and approach to spreader maintenance

The information provided by SMS has led to permanent productivity improvement for maintenance team

2. Bromma Climate Commitment

Cutting down greenhouse gas emissions by 50% by 2030.

Climate change is a key focus area for many of our key customers

CLIMATE CHANGE

ZERO CARBON BY 2040

By means of our ambitious decembonization strategy, we aim to be carbon neutral as a group by, 2040, with an intermediate target of 28% CO2 reduction by 2030 (with 2019 as the baseline). To this end, we are fully committee to:

1. Heplacing fossil fuels or reducing their use to the minimum

2. The use of renewable or carbon-neutral energy

 Maximizing efficiency by investing in innovative low-emission technologies and constructing possive buildings

4. Compensation for any residual volumes as the last option (as low as reasonably possible)

The future of container terminals is electric and green

TARGETS/COMMITMENTS

Reduce absolute Scope 1 & 2

carbon emissions by 50% by

2030, and by 75% by 2040,

against a 2019 baseline year

Establish a Scope 3 inventory

setting a Scope 3 emissions

by 2022 as a first step towards

Achieve net zero carbon

emissions by 2050

reduction target

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3	YILPORT HOLDING INC.		
		Waste Management	Hazardous Non- Hazardous Cargoes
		Energy Consumption	Renewable Energy Non - Renewable Energy
		Greenhouse Gas Emission (GHG)	 Scope 1 (Direct Emission from Owned/Controlled resources e.g., Combustion fuel) Scope 2 (Indirect Emission from Purchased Energy) Scope 3 (Indirect Emission resulted from activities not controlled by the organisation but the organisation is impacted in its supply chain
		Water Consumption	Water Inflows/ WithdrawalWater Outflows/ Discharges



	Commitments	We will take leadership in th	e decarbonisation of logistics
Lifting Globel Trade.		We will deliver on our customer commitment to decarbonise their supply chains in time and our societal commitment to act and have impact in this decade	
	Strategic Largets All targets are for end of year	 2040: Net zero across the business 100% green solutions to customers 	 2030: Aligned with the Science Based Targets initiative 1.5°C pathway Industry-leading green customer offerings across the supply chain
	Overview of all ESG categories	Climate change Environment and ecosystems (incl. ship recycling)	



P WORLD



TAKING

CLIMATE ACTION

No reduction in Scope 1 and 2 carbon emissions as a result of global industry disruptions creating inefficiencies, an expanding business portfolio and a lack of critical vlable technolocial solutions

 Embarked on a Scope 3 screening in the second half of 2021 to establish our Scope 3 inventory and develop an understanding of our entire carbon footprint

2021 PROGRESS

ENERGY

EMISSIONS

Aim for 90% of our Rubber Tyred
 Gantry Cranes (RTGs) to be
 electrification or hybridisation for
 electric or hybrid by 2030
 RTGs in 2021



Bromma's climate ambition includes activities across the end-to-end value chain



Materials Supply

- Integration of CO2 reduction criteria in Bromma sourcing decisions
- Evaluation of fossil-free steel for inclusion in Bromma spreaders (partnership with SSAB)



Own operations

- Implementation of clean energy in the Bromma factory
- Reduce, Reuse and Recycle Program across Bromma
- Company-wide use of electric vehicles



Use of spreaders

- Boosting our all-electric offering for all crane spreader applications
- Further developing energy-efficient solutions for hydraulic spreaders



Bromma portfolio helps to decrease CO2 emissions



 All-electric STS spreader STS45E G2 PLUS



 All-electric Yard spreader YSX40E and YSX45E



 PLUS Energy Saver for hydraulic spreaders



All-electric STS45 G2 PLUS

- ECO: Saves 15 ton CO2 emissions
- ECO: Eliminates hydraulic oil spills
- ECO: Accoustic friendly
- LOWER COST: Reduces energy consumption by up to 90%
- LOWER COST: Significant cost savings over spreader lifetime (much cheaper maintenance)
- HIGHER PRODUCTIVITY: Faster a special design that reduces cycle time
- LASTS LONGER: Improved
 structural design

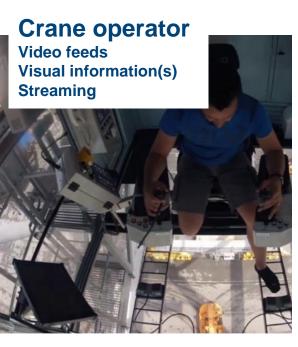


Much faster: No compromises on productivity

	STS45 Hydraulic	STS45E G2 PLUS			
Spreader Weight	12.7 MT	12.6 MT			
Telescopic Speed					
20'-40'	25 sec	18 sec			
20'-45'	30 sec	21 sec			
Twin Expand/ Retract	20 sec	15 sec			
Twinlift Up/ Down	8 sec	6 sec			
Twistlock Rotation	1.5 sec	1 sec			
Maximum Power Consumption	7.5kW	11kW			
Power Source	Hydraulic	Electrical			



3. Improving productivity with Bromma Hawkeye









Innovative camera platform that offers to monitor operations in real-time, enabling to make data-driven decisions

3. Bromma Hawkeye

- OCR
- Container damage
- Streaming





Three Bromma innovations that drive productivity







1. Bromma Spreader Monitoring System - SMS

2. ECO products

3. Bromma Hawkeye: cameras

BROMMA: Driving productivity through innovation





A Tradition of Innovation