



Mobile equipment

Reach stacker spreaders
Empty container handlers
Laden container handlers



Five reasons to specify Bromma spreaders

- 1 **20% Lighter Compared To Other Brands**
 - Lower weight on the reach stacker
 - Lower fuel consumption
 - Less wear and tear on tires, power train, transmission and drive train axles.
- 2 **Proportional Control For All Motions**
 - Accurate positioning
 - Adjustable damping for all motions
 - Eliminates shocks and increases driver's comfort.
- 3 **Designed And Built By Bromma**
 - Bromma is the largest spreader maker in the world, with proven R&D record.
- 4 **Extensive After Sales Network Around The Globe**
- 5 **Reliable And Robust, With Minimal Down Time**

■ Bromma spreaders understand the terrain of the terminal, and remain productive, reliable, and durable under conditions that are never ideal.



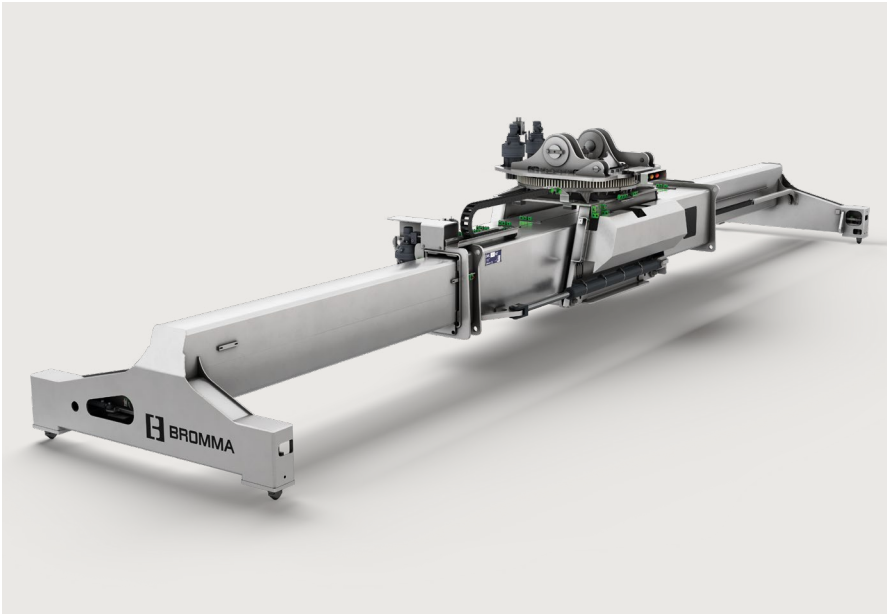


Spreader

RSX40

Reach Stacker Spreader

- Low tare weight for high performances
- Proportional valve control for telescopic, Rotating and sideshift motion
- 20' to 40' at maximum speed with dampening
- Floating ISO twistlocks
- ±800mm side shift
- 195°/+105° rotation
- ±5° mechanical pile slope
- Full CANopen bus integrated management
- Longer service intervals
- Light and robust with well proven design



The Bromma RSX40 is a spreader designed to handle single 20' and 40' containers for reach stackers. It is one of the lightest spreader in the market, providing unparalleled performances and cost savings.

RSX40 is equipped with side shift, rotating, telescopic, mechanical pile slope and floating twistlock functions that allows it to easily locate containers. All spreader movements are controlled with 24V proportional

valves, providing precise and smooth operation.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an electronic control unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

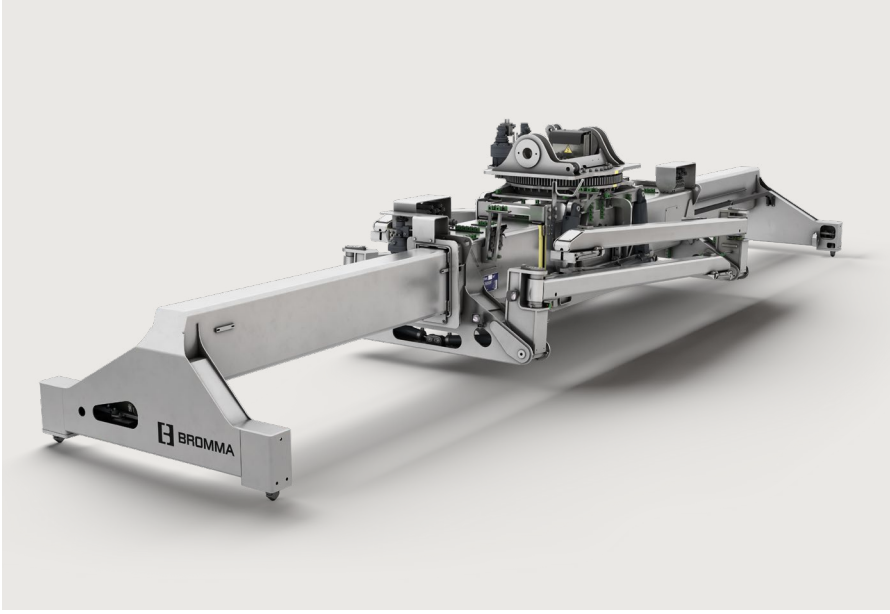
Lifting capacity (SWL)	45 metric tons, up to ±10% eccentric load 4 x 10 metric tons, with lifting lugs on the endbeams	Side shift	±800 mm
Tare weight (TW)	7.700 kg (approximately)- without extra equipment	Mechanical pile slope	±5°
ISO floating twistlocks	90° in less than 1.5 sec. Mechanical and electrical safety interlock system	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 2 LED work lights 3 indication lights
Telescoping	20' to 40' in less than 15 sec. Analogue or digital sensors for damping and telescoping	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Rotation	-195°/+105° in less than 45 sec. with control technology for smooth positioning	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944

Spreader

RSX40C

Reach Stacker Combi Spreader

- Low tare weight for high performances
- Smooth controltechnology
- 20' to 40' at maximum speed with dampening
- Floating ISO twistlocks
- Grapple arms with block stacking
- ±800mm side shift
- -195°/+105° rotation
- ±5° Powered pile slop
- Full CANopen bus integrated management
- Longer service intervals
- Faster diagnostics
- Light and robust with well proven design



The Bromma RSX40C is a combined reach stacker spreader for single container and trailer handling. It has four grapple arms to lift trailers, swap bodies (C715, C745) and bottom lifting containers.

RSX40C is equipped with grapple arms, side shift, rotating, telescopic, powered pile slope and floating twistlock functions that allows it to easily locate containers.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an electronic control unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

Lifting capacity (SWL)	45 metric tons, up to ±10% eccentric load 4 x 10 metric tons, with lifting lugs on twistlocks endbeams	Side shift	±800 mm
Tare weight (TW)	12.500 kg (approximately)- without extra equipment	Powered pile slope	±5°
ISO floating twistlocks	90° in less than 1.5 sec. Mechanical and electrical safety interlock system	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 4 LED work lights 3 indication lights
Grapple arms	2 pairs with block stacking up or down in less than 20 sec.	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Telescoping	20' to 40' in less than 15 sec. Analogue or digital sensors for damping and telescoping	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944
Rotation	-195°/+105° in less than 45 sec with control technology for smooth positioning		

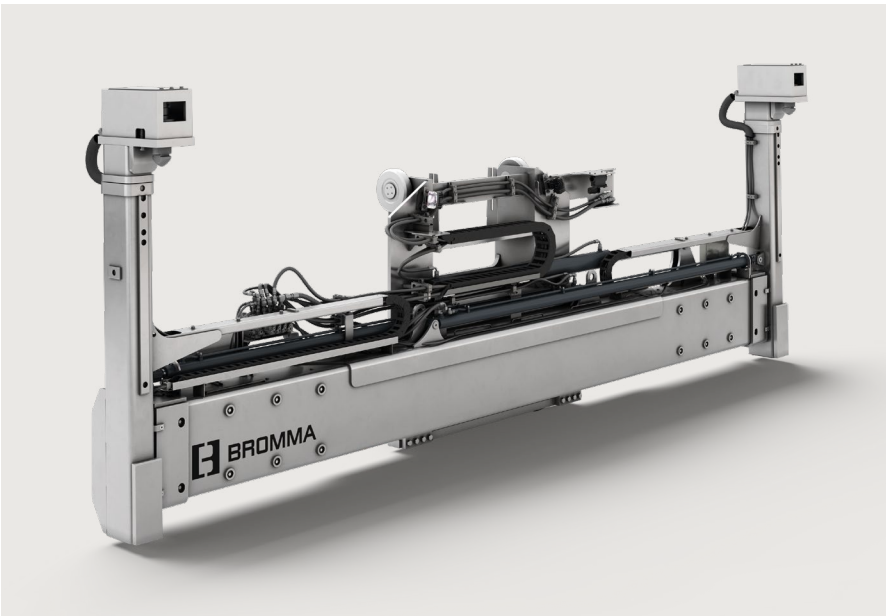


Spreader

SLV40

Side Lift Spreader With Vertical Twistlocks

- Full block stacking with higher visibility
- 20' to 40' at maximum speed with dampening
- ISO twistlocks
- ±600mm side shift Up to ±3° self-levelling
- Full CANopen bus integrated management
- Longer service intervals and long economic life



The Bromma SLV40 is a side lift spreader designed to handle single 20' and 40' empty containers for masted liftrucks. It is designed to offer outstanding visibility to allow rapidly positioning of the twistlock heads to the containers.

SLV40 is equipped with side shift, telescopic, and mechanical pile slope functions that allows it to easily locate containers and is designed to integrate optimally to

the lifting mast with minimal loss of Load Center.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an electronic control unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

Lifting capacity (SWL)	9T model = 9 metric tons 11T model = 11 metric tons	Mechanical pile slope	±3° self levelling MPS in side shift carriage in combination with 250 mm float and spring loaded vertical heads
Tare weight (TW)	9T model = 3.600 kg (spreader) ~1.500 kg for sideshift carriage 11T model = 4.000 kg (spreader) ~1.500 kg for sideshift carriage	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 2 LED work lights 3 indication lights
ISO twistlocks	90° in less than 1.5 sec. Mechanical and electrical safety interlock system	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Telescoping	20' to 40' in less than 15 sec. Analogue or digital sensors for damping and telescoping	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944
Rotation	-195°/+105° in less than 45 sec. with control technology for smooth positioning		
Side shift	±600 mm with control technology for smooth positioning		

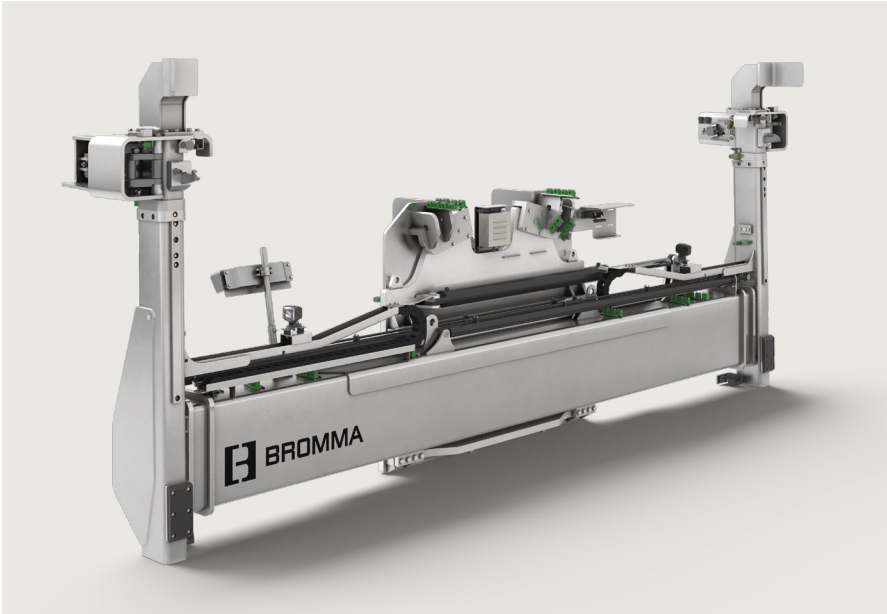


Spreader

SLC40T

Twin Lift Side Spreader With Hooks And Side Clamps

- Higher visibility and better efficiency
- 20' to 40' at maximum speed with dampening
- Suspended lifting hooks with side clamps
- ±600mm side shift
- Up to ±6° powered pile slope
- Full CANopen bus integrated management
- Integrated management
- Longer service intervals and long economic life



The Bromma SLC40T is a twinlift side spreader for simultaneous handling of two empty containers for masted lift trucks.

SLC40T is equipped with side shift, telescopic, and mechanical pile slope functions that allows it to easily locate containers. It uses hooks and side clamps to secure the container. The hooks engage the top of the bottom container, and the side clamps

lock into the corner castings of both containers.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an electronic control unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

Lifting capacity (SWL)	9T model = 10 metric tons 11T model = 11 metric tons	Powered pile slope	±6°, PPS in sideshift carriage in combination with 250 mm float & springloaded vertical heads
Tare weight (TW)	9T model = 4.000 kg (spreader) ~1.700 kg for sideshift carriage 11T model = 4.300 kg (spreader) ~1.700 kg for sideshift carriage	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 2 LED work lights 4 indication lights
Suspended lifting hooks	2 pcs.	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Telescoping	20' to 40' in less than 15 sec. A digital sensing of telescoping positions and dampening with maximum speed	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944
Side shift	±600 mm with control technology for smooth positioning		

Spreader

TLG40

Top Lift Spreader Gantry Mounting

- Low tare weight for high performances
- Proportional valve control for telescopic, slew, reach and sideshift motion
- 20' to 40' at maximum speed with dampening
- Floating ISO twist locks
- ±400mm hydraulic side shift
- ±5° Slew / ±120 mm reach
- ±5° Mechanical pile slope
- Full CANopen bus integrated management
- Longer service intervals
- Light and robust with well proven design



The Bromma TLG40 is a telescopic spreader designed to handle single 20' and 40' containers for masted lift trucks fitted with a gantry and is designed to attach to the truck gantry with 4 telescopic hangers that is self-levelling.

TLG40 is equipped with side shift, slew, reach telescopic, mechanical pile slope and floating twistlock functions that allows it to easily locate containers.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an Electronic Control Unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

Lifting capacity (SWL)	45 metric tons, up to ±10% eccentric load 4 x 10 metric tons, with lifting lugs on the endbeams	Mechanical pile slope	±5° self levelling with 4 telescopic hangers
Tare weight (TW)	5.000 kg	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 2 work lights 3 indication lights
ISO twistlocks	90° in less than 1.5 sec. Mechanical and electrical safety interlock system	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Telescoping	20' to 40' in less than 15 sec. Analogue or digital sensors for damping and telescoping	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944
Slew	±5° with smooth control technology.		
Reach	±120 mm with smooth control technology		
Side shift	±400 mm in less than 8 sec. with smooth control technology		



Spreader

TLF40

Top Lift Spreader Standard/Inverted Forks Mounting

- Low tare weight for high performances
- Proportional valve control for telescopic, slew and reach
- 20' to 40' at maximum speed with dampening
- Floating ISO twistlocks
- $\pm 3^\circ$ slew / ± 50 mm reach
- $\pm 5^\circ$ mechanical pile slope
- Full CANopen bus integrated management
- Longer service intervals
- Light and robust with well proven design



The Bromma TLF40 is a telescopic spreader designed to handle single 20' and 40' containers for masted lift trucks equipped with standard or inverted forks and is designed with fork pockets to fit standard or inverted forks. It is latched onto the heels of the forks by pivot arms secured with pins.

The TLF40 is equipped with slew, telescopic, reach mechanical pile slope and floating twistlock functions that allows it to easily locate

containers. Additional tilt and side shift are provided by the fork lift truck.

The spreader is operated from the driver's cab over serial communication (CANopen) or parallel wiring. Commands are processed by an Electronic Control Unit on the spreader with built in safety logics for container handling and spreader movements are precise and smooth as they are controlled by 24V proportional valves.

Technical Data

Lifting capacity (SWL)	45 metric tons, up to $\pm 10\%$ eccentric load 4 x 10 metric tons, with lifting lugs on the endbeams	Side shift	On fork lift truck
Tare weight (TW)	5.000 kg without extra equipment 5.900 kg with slew and reach intermediate carriage	Mechanical pile slope	$\pm 5^\circ$ self levelling
ISO floating twistlocks	90° in less than 1.5 sec. Mechanical and electrical safety interlock system	Electrics	24 V DC control voltage Electronic control unit Serial interface, CANopen according to CiA DS 444 profile 2 work lights 4 indication lights
Telescoping	20' to 40' in less than 15 sec. Analogue or digital sensors for damping and telescoping	Hydraulics	70-90 l/mn at 160 bar ISO cleanliness rating 18/16/13 (ISO 4406)
Slew	$\pm 3^\circ$ with smooth control technology	Surface conditioning	PUR RAL 7021 (black grey) 160/2 FeSA2.5 with gloss grade 30 +10/-5 for corrosion protection classification C3L/C2M according to EN - ISO 12944
Reach	± 50 mm with smooth control technology		





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