



The picture shown is for illustration purpose and may not correspond to the final design

20' 40' 45' 2 x 20'
Container combinations with STS45LW

STS45LW TWIN-LIFT

Hydraulic spreaders

➔ TWIN-LIFT SHIP-TO-SHORE HYDRAULIC

spreaders are the most popular products in the Bromma product line, due to their higher productivity and versatility

➔ THE STS45LW

It can move two 20' containers apart from 0 to 1.6 meters (0'-5') under full load..

TECHINAL DATA STS45LW

LIFTING CAPACITY

41 metric tons, ±10% ecc. load
41 metric tons, evenly loaded
2 x 25 metric tons , evenly loaded

LIFTING LUGS

4 x 10 metric tons in main frame and end beams

WEIGHT

About 10.7 metric tons (without extra equipment)

SEPARATING CAPACITY

0-1600mm with full load

TELESCOPIC MOTION

20'-45' in approx. 30 sec.

FLIPPER ARM SPEED

180° in 3 to 5 sec.

TWISTLOCK ROTATION

90° in approx. 1.5 sec.

HYDRAULICS

System pressure 100/160 bar

POWER SUPPLY

400/230 V AC 50 Hz or otherwise as agreed

MAX POWER CONSUMPTION

7.5 kW

TWINLIFT UNIT UP/DOWN

Approx. 8 sec.

TWIN EXPAND/RETRACT

Approx. 20 sec.

CONTROL SYSTEM

SCS - Modular

CONTROL VOLTAGE

24VDC

The Bromma STS45LW is a light-weight twin lift hydraulic spreader, ideal for use on cranes rated to lift less weight. It is a feature rich spreader with Bromma advanced performance technology, such as SCSModular. Bromma's optional MPS memory positioning system and Twin-Twenty Detection System are available for the STS45LW, and makes the crane operator's task easier, plus increases productivity and safety.

On the STS45LW separating twin movement can be done at any time in the crane cycle, which means there is no stopping time to change the container spacing. This results in higher flexibility in container ship loading and unloading. Bromma's engineering team ensures high structural integrity through strategic engineering, such as finite element modeling, which analyzes stress points on the spreader and projects the likely effect of accumulated stress over time. Bromma design studies, including buckling, vibration, and stress-related stiffening analyses, enable Bromma Research and Development to evaluate the long-time impact of design changes, and develop optimum design solutions.

Bromma uses premium steel for spreader frame structures selected on the basis of its strength, weldability, and form ability. ISO twistlocks allow for 6mm of float in all lateral directions, providing efficient locating in the container corner castings. These spreaders can retract to the 19'6" position in the event the spreader becomes jammed in the ship's twenty foot cell. Positioning to the 19'6" position can be controlled by the operator if appropriate controls are furnished in the crane cab.