



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

Container combinations with STS45

STS45 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 SEPARATING STS45 IS EXCELLENT

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

Bromma twin-lift hydraulic spreaders are feature rich. Bromma advanced performance technology, such as SCS-Modular, is standard on these spreaders. Bromma's optional MPS memory positioning system, available on the STS45, makes the crane operator's task easier, and increases productivity. Options such as the Bromma Twin-Twenty Detection System adds safety and the HIS Height Indication System is ideal for use on high-speed cranes.

On the STS45 separating twin movement can be done at any time in the crane cycle, which means there is no stoping 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. Bromma's STS45 spreader is the industry standard for ship-to-shore container handling, and a constant presence in the most demanding terminals in the world. Bromma understands what ship-to-shore container handling requires, and the twin-lift hydraulic STS spreaders from Bromma deliver it.

TECHINAL DATA STS45

LIFTING CAPACITY

51 metric tons, ±10% ecc. load
51 metric tons, evenly loaded
2 x 32.5 metric tons, evenly loaded

LIFTING LUGS

4 x 10 metric tons in main frame and end beams

WEIGHT

About 12.7 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 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