

MTR45

Telescopic Mobile Crane Spreader



The Bromma MTR45 mobile harbour crane spreader in action.

Twin-Lift Mobile Harbour Crane Spreaders

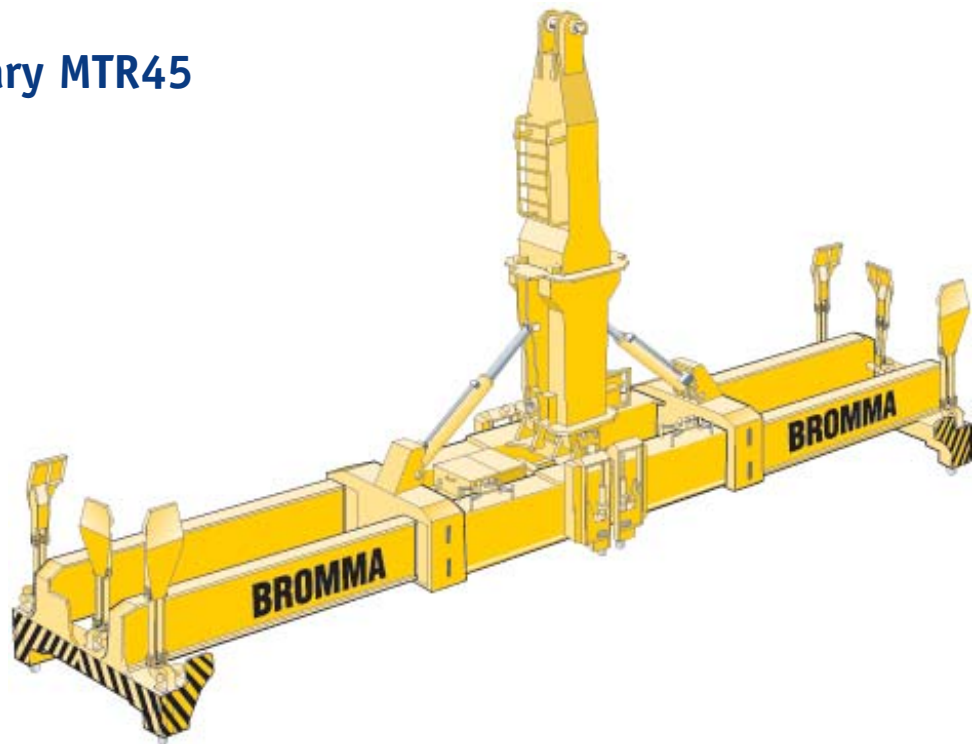
Wherever mobile or jib cranes are found, Bromma spreaders can usually be found there as well. Bromma mobile harbour cranes are renowned for their extreme reliability. In fact, the first Bromma mobile harbour crane spreader, built way back in 1977, is still in service today. One consequence of Bromma's vast experience in mobile harbour crane container handling is that many customers have chosen to standardize with Bromma spreaders. This, in turn, has enabled terminal maintenance departments to become very familiar with the service characteristics of these spreaders – another factor is their extremely long life and reliability. Bromma mobile harbour crane spreaders offer you the security of proven performance. The twin-lift mobile harbour crane spreader line consists of two primary spreaders. The EH170U can lift 20' or 40' containers, while the MTR can lift 45' containers as well. Both spreaders can lift two 20' con-

tainers and offer gravity point adjustment, so that unevenly loaded containers can be picked up horizontally, which is especially important when loading or unloading in the guides of the ship's cells. A pole design in the MTR45 allows the center of gravity lifting point to be moved as needed toward each end of the spreader. Repair and maintenance is simplified through easy access to each component. The flexibility designed into the telescopic system allows small changes in spreader length when handling distorted containers. Bromma's six-flipper arm layout, coupled with a hydraulic motor flipper drive, provides positive damping to allow efficient gathering on to a container even when the spreader is rotating. There are many available structural, mechanical, hydraulic and electrical options; see your Bromma representative for details.

A Tradition of Innovation



Technical summary MTR45



Bromma twin-lift mobile harbour crane spreaders offer the loading and unloading speed of twin-lift spreaders, with the added flexibility to perform single-lift container handling as well.

The MTR45 can single-lift one container in the 20', 40' or 45' position, or twin-lift two fully loaded 32.5 tonne containers, or twin-lift two containers with quite different loads.

The MTR45 is capable of highly eccentric gravity point adjustment of 2.1 meters. It can also be outfitted with Bromma's twin-twenty detection system, (TTDS) which uses a cluster of sensors to detect a gap between containers loaded in the ship's cell.

The MTR45 features a pole design for the gravity point adjustment so that eccentrically loaded containers can be adjusted into horizontal position. This allows the spreader to be safely rotated without tilting or overloading. The gravity point adjustment is especially important when loading or unloading in the guides in the ship's cells. After unlocking an unevenly loaded container, the tilting pole assembly automatically returns to the vertical position. The MTR45 is normally used in conjunction with Bromma's standard rotator.

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Simplified Bromma design means fewer mechanical components, fewer spare parts, and reduced maintenance. Repair and maintenance is simplified through easy access to each component.

Technical specifications MTR45 Twin-lift mobile crane spreader

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|------------------------------|---|
| Lifting capacity | Twistlocks 51 tonnes $\pm 10\%$ eccentric loading Twistlocks 2 x 32.5 tonnes evenly loaded Twistlocks 51 tonnes evenly loaded Lifting lugs 4 x 10 tonnes in end beam |
| Weight | 14.1 tonnes |
| Gravity point adj. | $\pm 2.1\text{m}$ in 7 s |
| Telescopic motion | from 20' to 45' in approx. 30 s |
| Flipper speed | 180° in 3 - 5 s |
| Twistlock rotation | 90° approx. in 1.0 s |
| Hydraulics | System pressure 100 bar |
| Power supply and consumption | 400/230 V AC 50Hz or as agreed 15.0 kW |
| Surface conditioning | Sand-blasted SA 2 1/2; two coats of zinc-rich epoxy primer and two coats of acrylic top coat. |

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