



**World Leading Lifting Accessories Supplier  
for Bulk & Container Handling**



**Performance Through Innovation**

RAM Spreaders' ancestral roots began back in 1876 as Ed Mills & Son, a blacksmith company in Liverpool, England. The Mills family ran the business with success and during the 1970's further diversified its business interests into container handling equipment with the then Director of Ed Mills & Son, Mr. Robert A. Mills. The name RAM represents the initials of Robert A. Mills whilst being synonymous with strength, power and reliability.

In 1992, NSL Engineering, a subsidiary of NSL Ltd, acquired RAM Spreaders as part of the company's business diversification.

Over the years, RAM Spreaders has successfully established itself as a reputable brand name in the container handling industry through strategic market penetration and innovative product development. Currently, RAM products are present in more than 65 countries, across all continents.

In 2022, RAM Spreaders celebrated 50 years of manufacturing and supplying container handling equipment to ports and terminals.

An achievement made possible by the continued faith and support of customers, allowing RAM to remain fiercely competitive and continue to innovate and provide cost-effective handling solutions.



Philip Lee (RAM CEO) and Robert A. Mills (RAM Founder) during a 50 years of RAM Spreaders celebration

## Design, Product Development and Production

RAM's Design and product development continue to take place in the Singapore Head Office and a production plant of 64,000m<sup>2</sup> land areas in Changshu China for maximum flexibility and responsiveness to meet customers' needs. The Changshu plant has been in operation since 2005 and is equipped with the latest production techniques and world class quality control system.

## Global After-Sales Service and Spare Parts Support

RAM has a well-established global network, providing after-sales services and spare parts support by qualified engineers from our main offices in Singapore and UK, and service centers in East / West Coast America, South America, Middle East and Africa.

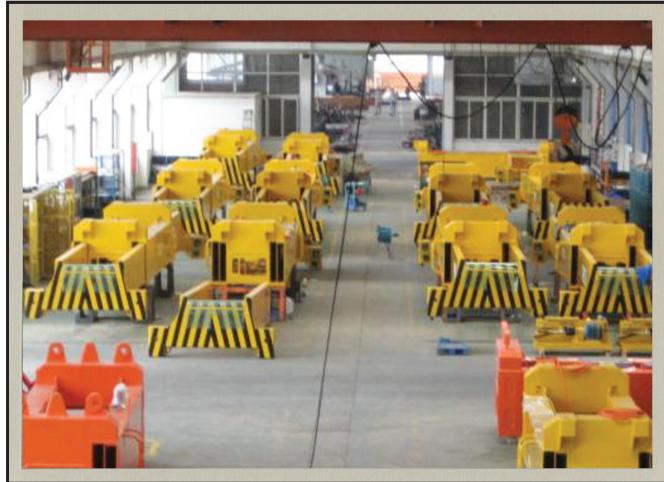
RAM also provides extensive formal and practical training available both on-site and in workshop to equip our customers with product knowledge necessary to carry out routine maintenance which is important for the spreaders' safety reliability and performance.



**RAM Spreaders** are designed to operate on ship-to-shore cranes, yard stacking cranes, jib cranes, mobile harbour cranes, straddle carriers, reach stackers and front loaders. Models include fixed or telescopic operation, single or twinlift and overheight spreaders as well as hook beams, rotators and headblocks.

### **RAM CenterSpread® Spreaders**

Twinlift CenterSpread® spreaders can either handle two 20ft containers with centerspreading capabilities or a single container up to 45ft in length. The twinlift housings can be deployed when required for twinlift operation. In twinlift mode, the spreader memory positioning system will ensure the centerspreading gap is stored and repeatable. ASi two-wired electrical communication and control system is standard on this range of spreader equipped with numerous advance and complex features which are beyond what the traditional hard wiring electrical system can handle.



### **RAM Twin40 Headblocks**

The Twin40 Headblocks design brings outstanding performance, control and versatility to twin 40ft, 45ft or 4x20ft containers handling. There are two systems developed: RAM SingFlex™ for single-hoist crane and RAM

DualFlex™ for dual-hoists crane. The RAM SingFlex™ headblock system provides a new operational dimension to the traditional single-hoist crane. Without the capital investment need for dual-hoists crane, the traditional single-hoist crane, equipped with RAM SingFlex™ headblock system can equally match the operation flexibilities with lower cost.

### **RAM All-Electric Spreaders**

RAM all-electric spreaders provide a cost effective, low maintenance and environmentally friendly alternative to establish electro-hydraulic spreader design. Powered by electric drives, the all-electric designs eliminates the need for hydraulic systems. They are very quiet and energy efficient requiring less maintenance and servicing.

### **RAM PinSmart®**

RAM PinSmart® is an automated twistlock handling machine for handling a wide range of container twistlocks in a container terminal. Designed to handle 20ft, 40ft, 45ft and twin 20ft containers, the RAM PinSmart® machine reduces injuries, improves productivity and reduces cost by automating dangerous manual task.

### **RAM Revolver®**

RAM Revolver® is a safe, efficient and environmentally friendly spreader for the exporting and handling of bulk material. It can be designed to work with Ship-to-Shore cranes, mobile harbour cranes, ship cranes or even lift trucks. RAM Revolver® consists of an inner and outer frame. The inner frame locks onto the container and rotates it using a patented RAM drive system.



## 2400 series

Electro-hydraulic telescopic spreaders

| Model | Container sizes        | Capacities |
|-------|------------------------|------------|
| 2410  | 1 x 20ft / 40ft        | 35 tons    |
| 2420  | 1 x 20ft / 40ft / 45ft | 41 tons    |
| 2430  | 1 x 20ft / 40ft        | 41 tons    |
| 2440  | 1 x 20ft / 40ft / 45ft | 51 tons    |



## 3400 series

All electric telescopic single lift spreaders

| Model | Container sizes        | Capacities |
|-------|------------------------|------------|
| 3410  | 1 x 20ft / 40ft        | 41 tons    |
| 3420  | 1 x 20ft / 40ft / 45ft | 41 tons    |



## 2900 series

Telescopic twinlift spreaders with CenterSpread®

| Model | Container sizes                    | Capacities               | CenterSpread® |
|-------|------------------------------------|--------------------------|---------------|
| 2910  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 30 tons   | 0 - 1600mm    |
| 2920  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 25 tons   | 0 - 1600mm    |
| 2930  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 32.5 tons | 0 - 1600mm    |
| 2940  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | 0 - 1600mm    |



## 3900 series

All electric telescopic twinlift spreaders with CenterSpread®

| Model | Container sizes                    | Capacities               | CenterSpread® |
|-------|------------------------------------|--------------------------|---------------|
| 3910  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 30 tons   | 0 - 1600mm    |
| 3920  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 25 tons   | 0 - 1600mm    |
| 3930  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 41 tons<br>2 x 32.5 tons | 0 - 1600mm    |
| 3940  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | 0 - 1600mm    |

## 2500 series

Electro-hydraulic telescopic spreaders

| Model | Container sizes        | Capacities |
|-------|------------------------|------------|
| 2510  | 1 x 20ft / 40ft        | 35 tons    |
| 2520  | 1 x 20ft / 40ft / 45ft | 41 tons    |
| 2530  | 1 x 20ft / 40ft        | 41 tons    |
| 2540  | 1 x 20ft / 40ft / 45ft | 51 tons    |

with option of Gather Guides



## 3500 series

All electric telescopic single lift spreaders

| Model | Container sizes        | Capacities | Application            |
|-------|------------------------|------------|------------------------|
| 3510  | 1 x 20ft / 40ft        | 41 tons    | Light weight structure |
| 3520  | 1 x 20ft / 40ft / 45ft | 41 tons    | Light weight structure |
| 3530  | 1 x 20ft / 40ft        | 41 tons    | Heavy duty structure   |
| 3540  | 1 x 20ft / 40ft / 45ft | 41 tons    | Heavy duty structure   |



## 2900 series

Telescopic twinlift spreaders with CenterSpread®

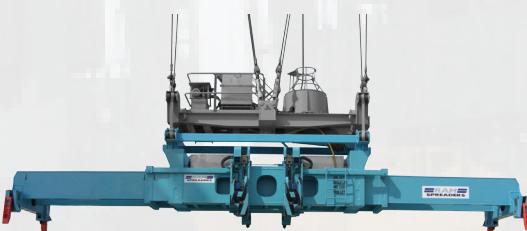
| Model | Container sizes                    | Capacities               | CenterSpread® |
|-------|------------------------------------|--------------------------|---------------|
| 2950  | 1 x 20ft / 40ft<br>2 x 20ft        | 41 tons<br>2 x 25 tons   | 0 - 800mm     |
| 2960  | 1 x 20ft / 40ft<br>2 x 20ft        | 41 tons<br>2 x 32.5 tons | 0 - 800mm     |
| 2970  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | 0 - 800mm     |
| 2980  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | 0 - 1600mm    |



## 3900 series

All electric telescopic twinlift spreaders with CenterSpread®

| Model | Container sizes                    | Capacities               | CenterSpread® |
|-------|------------------------------------|--------------------------|---------------|
| 3950  | 1 x 20ft / 40ft<br>2 x 20ft        | 41 tons<br>2 x 25 tons   | 0 - 800mm     |
| 3960  | 1 x 20ft / 40ft<br>2 x 20ft        | 41 tons<br>2 x 32.5 tons | 0 - 800mm     |
| 3970  | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | 0 - 800mm     |

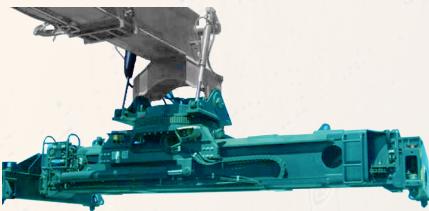




## Model 2220

Telescopic overhead spreaders with automatic latching

| Container sizes        | Capacities |
|------------------------|------------|
| I x 20ft / 40ft / 45ft | 51 tons    |



## I 700 series

Telescopic spreaders for small moving vehicles

| Model | Container sizes | Capacities | Application           |
|-------|-----------------|------------|-----------------------|
| I730  | I x 20ft / 40ft | 45 tons    | For straddle carriers |
| I740  | I x 20ft / 40ft | 45 tons    | For reach stackers    |



## 2700 series

Electro-hydraulic single lift / twinlift spreaders for mobile harbour crane

| Model | Container sizes                    | Capacities               | Centre of gravity adjustment |
|-------|------------------------------------|--------------------------|------------------------------|
| 2710  | I x 20ft / 40ft                    | 35 tons                  | ±1200mm                      |
| 2720  | I x 20ft / 40ft / 45ft             | 45 tons                  | ±1200mm                      |
| 2730  | I x 20ft / 40ft                    | 41 tons                  | ±1200mm                      |
| 2740  | I x 20ft / 40ft<br>2 x 20ft        | 41 tons<br>2 x 25 tons   | ±1200mm                      |
| 2750  | I x 20ft / 40ft / 45ft<br>2 x 20ft | 45 tons<br>2 x 32.5 tons | ±1200mm                      |
| 2760  | I x 20ft / 40ft / 45ft<br>2 x 20ft | 51 tons<br>2 x 32.5 tons | ±2100mm                      |

## Model 6100

Twin40 headblocks for single hoist container lifting cranes

| Operation Mode  | Equipment                  | Container Size   | Capacities                                       |
|-----------------|----------------------------|--|--|
| Single Spreader | Master headblock           | 1 x Hatch cover<br>1 x 20ft<br>1 x 40ft / 45ft<br>2 x 20ft | 41 tons<br>32.5 tons<br>51 tons<br>2 x 32.5 tons |
| Twin Spreader   | Master or slave headblock  | 1 x Hatch cover<br>1 x 20ft<br>1 x 40ft / 45ft<br>2 x 20ft | 41 tons<br>32.5 tons<br>41 tons<br>2 x 32.5 tons |
|                 | Master and slave headblock | 2 x 20ft<br>2 x 40ft / 45ft<br>4 x 20ft                    | 2 x 32.5 tons<br>2 x 41 tons<br>4 x 20 tons      |



## 4000 series

PinSmart®, automatic twistlock handling machine

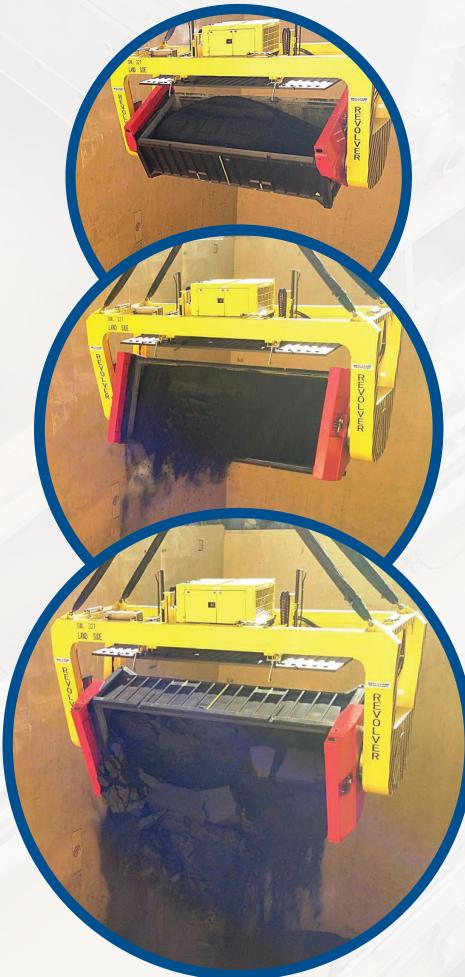
| Model       | Container sizes                    | Capacities   |
|-------------|------------------------------------|--|
| <b>4010</b> | 1 x 20ft / 40ft/ 45ft<br>2 x 20ft  | Discharge - Fully automated<br>Load - 75% reduction in work                                    |
| <b>4020</b> | 1 x 20ft / 40ft / 45ft<br>2 x 20ft | Discharge - Fully automated<br>Load - 75% reduction in work<br>Fixed to crane<br>Movable bogey |



## 4100 series

Revolver® for containerized bulk handling

| Model       | Container sizes | Applications             |
|-------------|-----------------|--------------------------|
| <b>4111</b> | 1 x 20ft        | For ship-to-shore crane  |
| <b>4112</b> | 1 x 40ft        | For ship-to-shore crane  |
| <b>4121</b> | 1 x 20ft        | For mobile harbour crane |
| <b>4131</b> | 1 x 20ft        | For ship crane           |
| <b>4141</b> | 1 x 20ft        | For reach stacker        |
| <b>4151</b> | 1 x 20ft        | For bridge crane         |



RAM developed its product range responding to customers' operational needs and future expectations. We offer bespoke equipment based on our wide range of spreader models and options to deliver the most effective and practical container-handling solutions.

RAM Spreaders is the world's leading independent, dedicated specialist spreader manufacturer. The company has manufacturing facilities in China; service and repair centres in Singapore and UK; and sales and after-sales service support throughout Asia, Americas, Europe, Middle East and Africa.

## PRODUCT RANGE

A comprehensive range of product for:

- Ship-to-Shore Cranes
- Yard Stacking Cranes
- Mobile Harbour Cranes

Product range includes:

- Electro-Hydraulic Spreaders (Single and Twinlift)
- All-Electric Spreaders (Single and Twinlift)
- Light Weight Spreaders
- Overheight Spreaders
- Tandem Headblock
- Revolver / Rotating Spreaders
- PinSmart (Automated Twistlock Handling Machine)
- Pipe Spreaders

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