

# **RAM** **SPREADERS**

## **2700 series**

**Telescopic Spreaders including Twinlift  
for Mobile Harbour and Jib Cranes**



**Performance Through Innovation**



The RAM 2700 series of Electro-Hydraulic Telescopic Spreaders including twinlift has been developed to provide productive, safe and cost-effective container handling for mobile harbour and jib cranes. Six models provide a wide choice of capacities from 35 to 60 tonnes designed to handle single 20', 40' and 45' containers. 2740, 2750 and 2760 models also provide twinlift capability, designed to handle two 20' containers as well as the full range of single container lifts.

Each spreader is fitted with hydraulically retractable twistlock housings mounted on the main centre section. When the additional twistlock housings are deployed, the spreaders can handle two 20' containers. In addition the 2760 model includes the RAM CenterSpread® separating twinlift enabling the operator to adjust the gap between the containers, and centre of gravity adjustments.

### **Quality Design and Construction**

All RAM spreaders are designed to DIN 15018 and to other applicable international standards.

Twin double box centre section, internally stiffened telescoping beams and steel wear plates on end beams are just some of the reasons why the 2700 series is built to last and minimise downtime. Automated welding ensures consistent quality and all RAM spreaders are tested to 125% of designed load before delivery.

### **Telescopic Twinlift Design**

The RAM 2700 series provides a choice of single lift telescopic and twinlift telescopic performance. The 2760 model has the added benefit of CenterSpread®, enabling the spreader to adjust the gap between two 20' containers. With added flexibility the 2700 series brings further productivity and performance to every crane.

### **Centre of Gravity Adjustment**

The spreader is fitted with either a post or pyramid tower that can be moved longitudinally to adjust the spreader's centre of gravity, to allow for containers that are unevenly loaded. It has a pin connection for attaching to a crane hook or rotator.

### **Flipper / Gather Guides**

The 2700 series is fitted with six hydraulically retractable flippers on each corner as standard, two at each side and one at each end of the spreader. The flipper design helps gather the container smoothly and absorb the impact between the spreader and container.

### **Twistlocks**

Floating twistlocks allow the operator to quickly locate and lock the spreader onto a container. Proximity switches indicate whether twistlocks are locked and unlocked.

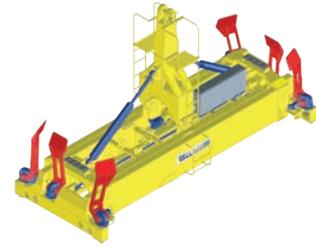
## Electrical System

The electrical system is designed to operate at the same voltage as the crane and in accordance with IEE Regulations, and is fitted with an on-board logic control system. An enclosure is fitted to the centre section from where cables run to the various electrical components on the spreader. A multi pin electrical socket is fitted to one side of the enclosure to accept the multi-pin plug from the headblock.

Electrical control and overload protection devices are installed in the enclosure for the spreader's electrical systems. All RAM spreaders use electrical systems built from high quality components supplied by leading manufacturers and are readily available from suppliers worldwide.

## TECHNICAL DATA

Model	Container Size	Capacities	C of G Adjustment
2710	1 x 20ft / 40ft	35t SWL	0 ~ 1200mm
2720	1 x 20ft / 40ft / 45ft	41t SWL	0 ~ 1200mm
2730	1 x 20ft / 40ft	41t SWL	0 ~ 1200mm
2740	1 x 20ft / 40ft 2 x 20ft	41t SWL 2 x 25t SWL	0 ~ 1200mm
2750	1 x 20ft / 40ft / 45ft 2 x 20ft	41t SWL 2 x 32.5t SWL	0 ~ 1200mm
2760	1 x 20ft / 40ft / 45ft 2 x 20ft	51t SWL 2 x 32.5t SWL	0 ~ 2100mm



## Operational Speeds

Function	Speed	Power Rating
Twistlock	1.5 sec	Power 7.5 kW or 11.0 kW
Flipper	4.5 sec	(depending on spreader model)
Telescopic - 20ft ~ 40ft	28 sec for all models except 2760 18 sec for model 2760 only	
- 20ft ~ 45ft	34 sec for 2720 and 2750 only 44 sec for model 2760 only	



## OPTION FEATURES

RAM Spreaders offers a wide range of options to provide the most productive spreader specifications, including:

### ASi Communications

All spreader functions are controlled by ASi communications. The ASi system simplifies the installation of electrical components, provides efficient diagnostics and makes it easy to feed data to the crane's control system. It can be fitted with a controller on the spreader or can be extended back to the crane.

### On-Board PLC

RAM Spreaders can be fitted with an on-board PLC for logic control and a simplified control system.

### Twin Twenty Container Detection System

Ensures that the operation cannot handle two 20ft container instead of a 40ft container.

### Height Monitoring System

A valuable safety and productivity feature, signalling to the crane operator when the spreader is approaching the top of the container.

RAM Spreaders continues to develop its product range, both in response to customer expectations and in anticipating future developments. With such a wide range of spreader models and options we can meet the needs of most terminal operators but we're always happy to develop bespoke solutions to deliver the most effective and practical container handling solution.

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, UK and Germany; 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
- Straddle Carrier

Product range includes:

- Electro-Hydraulic Spreaders (Single and Twinlift)
- All-Electric Spreaders (Single and Twinlift)
- Light Weight Spreaders
- Overheight Spreaders
- Twin40 Headblock
- Revolver® / Rotating Spreaders
- PinSmart (Automated Twistlock Handling Machine)

## RAM SMAG Lifting Technologies Pte Ltd

### Singapore

Tel: +65 6716 9400  
Fax: +65 6261 1300

### UK

Tel: +44 (0) 1695 556355  
Fax: +44 (0) 1695 556356

### Germany

Tel: +49 5341 302 647  
Fax: +49 5341 302 424

### China

Tel: +86 512 52297222  
Fax: +86 512 52297223

### Australia

Tel: +61 425 12 12 58

### United Arab Emirates

Tel: +971 4 8838980

### Africa

Tel: +2731464 9933

### South America

Tel: +593 98 890 0917

For all sales enquires, please email to : [sales@ramspreaders.com](mailto:sales@ramspreaders.com)

Please visit our website for other national and regional agents

[www.ramspreaders.com](http://www.ramspreaders.com)

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Lifting Technologies

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