

RAM **SPREADERS**

Model 6100

**Tandem Headblock - SingFlex
for Container Lifting Cranes**



Performance Through Innovation



The RAM SingFlex Headblock is a well-proven, safe and reliable system allowing single or multiple containers to be handled in a single crane operational cycle to enhance container handling productivity.

It has been specifically developed for use on conventional single hoist cranes. It affords the operator the option to handle single 20ft, 30ft, 40ft and 45ft containers in the conventional manner (subject to spreader capability) or two x 40ft/45ft or four x 20ft containers or any other configuration in tandem as depicted in the chart on the adjacent page.

SingFlex can also be retro-fitted to most existing container handling cranes subject to crane specification.

Features of SingFlex allow spreaders and containers to be manipulated using onboard mechanisms for precise positioning during loading or discharge operations. The SingFlex system can be adapted for use with most brands of standard spreaders.

Design and Construction

The headblock system is designed in accordance with EN13001 Standard (HC2 HD1 U7 Q3 classification) SingFlex is designed to withstand the constant demands of a typical container handling operation.

The Headblock is manufactured to the highest standards in our own ISO 9001 certified facilities using modern automated welding processes and ISO 3834-2:2005 standard and load/function tested prior to dispatch.

Auto Change over (Single Headblock to Tandem Headblock or vice versa)

The SingFlex system utilises a Docking Station mounted on the Crane structure to accurately align both parts of the Headblock and Spreaders relative to each other to allow the automated changeover to occur.

RAM's patented auto-connector allows the crane operator to switch from single to tandem mode in a fully automated manner without assistance from support staff. The change-over time is typically within 2 minutes or less.

Headblock Capabilities

SingFlex allows the operator to adjust the spacing between Landside and Seaside containers at any time during the Crane cycle, create/adjust relative skew angle between spreaders and containers and offset one spreader relative to the other (longitudinally).

SingFlex can accommodate up to 500mm difference in height between Landside/Seaside containers. Warning signals are sent via the control Bus system to the crane controller if this value is exceeded.

Electrical Control

Electrical control of the headblock functions from the crane operator cabin via a Gateway linked into the cranes controller. Separate Bus system for the Headblock and Primary & Secondary spreaders.

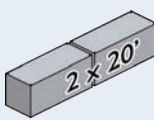
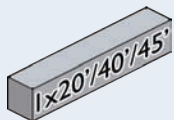
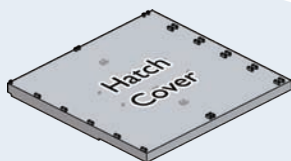
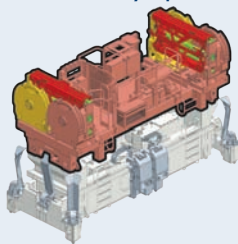
All electrical components are sourced from internationally recognized component manufactures and specifically selected for arduous duty normally encountered in container handling operations.

TECHNICAL DATA

For 120t single hoist ship-to-shore cranes with RAM 2940 twinlift telescopic spreader

Single Mode

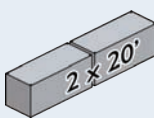
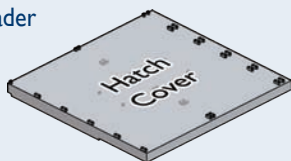
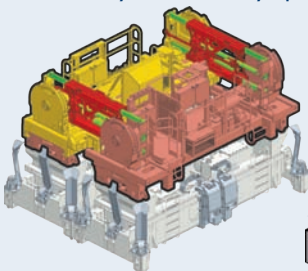
With Container/s under Primary Spreader



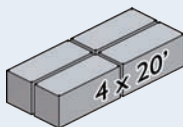
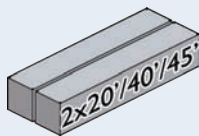
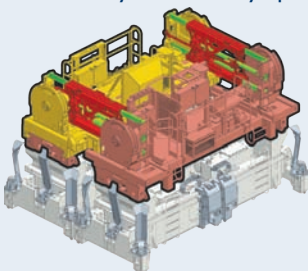
Tare Weight : 10.5t (excluding spreader's)

Tandem Mode

With Container/s under Primary or Secondary Spreader



With Container/s under Primary & Secondary Spreaders



Tare Weight : 15.3t (excluding spreader's)

Safe Working Load

Single Mode

1 x 51.0t

2 x 32.5t (in twin lift)

Tandem Mode

80.0t (combined)

Maximum SWL

under any 1 Spreader

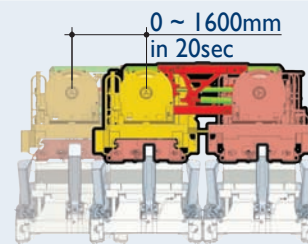
1 x 51.0t

2 x 32.5t (in twin lift)

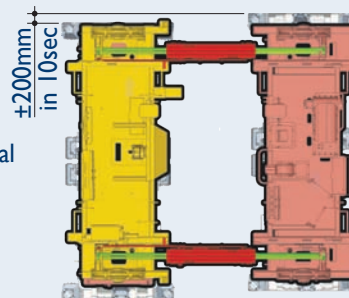
Operational Speeds

Function

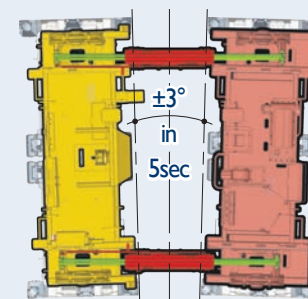
Gap Adjustment



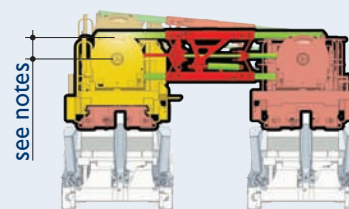
Longitudinal Offset



Skewing

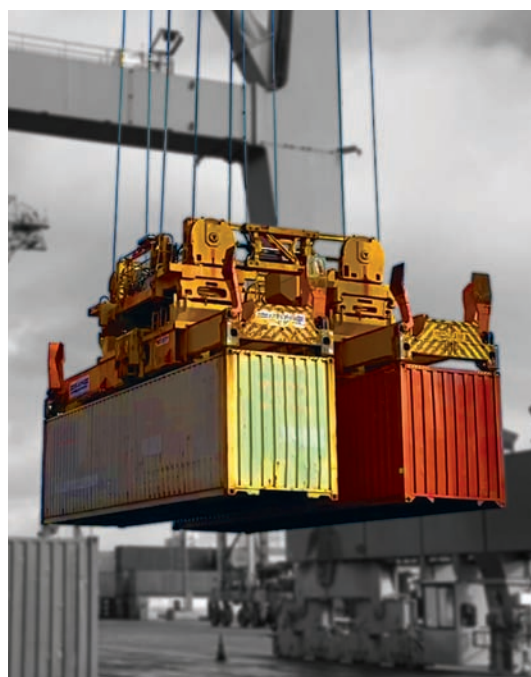


Vertical Float



Note:

- a) Out of Factory Setting : ±500mm
- b) ±600mm achievable with compromise of speed



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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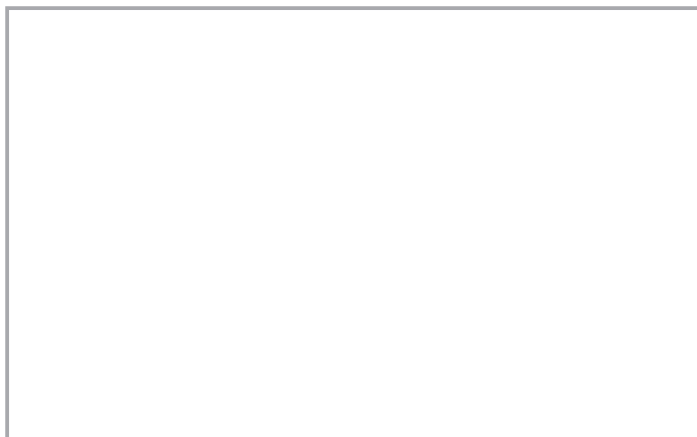
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