



**RAM**  
SPREADERS

# Containerised Bulk Handling

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**Zero Loss Handling  
Supply Chain**

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**MEDITERRANEAN**  
Ports and Logistics 2025



## CURRENT BULK LOGISTICS



**Can it be sustained  
over time?**





## CURRENT BULK LOGISTICS

# IS THERE A SOLUTION?

Can it be sustained  
over time?



## CONTAINERISED BULK HANDLING





# CONTAINERISED BULK HANDLING

## EASY HANDLING PROCESS

The 4-stage process of CBH:

### 1. FILL



### 2. TRANSPORT



### 3. STORE



### 4. UNLOAD





## FLEXIBLE SYSTEM

### CBH IN OPERATIONS



#### **Mine to Port**

<https://vimeo.com/266126600>



#### **Automated Copper Loading**

<https://vimeo.com/1038954205>



#### **Container Terminal Converted to Bulk Terminal**

<https://vimeo.com/862027955>



#### **Warehouse to Port**

<https://vimeo.com/731693431>



# FLEXIBLE SYSTEM

## Pit to Ship

(stacking containers at the terminal)





# FLEXIBLE SYSTEM

## Shed to Ship

(containers go back and forth between the shed and terminal)



1. Fill



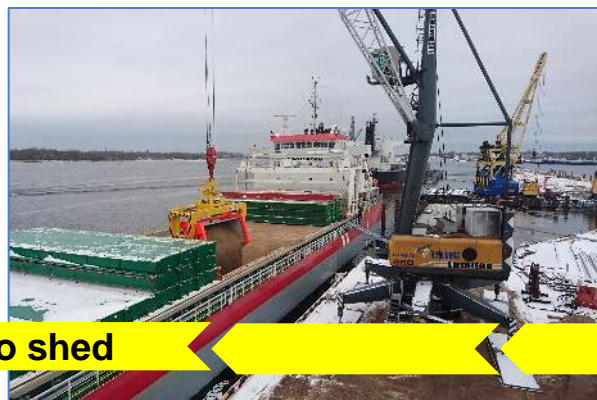
2. Transport



3. Lift



Empty Container back to shed



4. Load





## TYPES OF PORT CRANES

### MHC Cranes



### Ship to Shore Cranes



### Ship Cranes





# TYPES OF PORT CRANES

FOR ALL TYPES OF CRANE



<https://vimeo.com/272747924>



## EQUIPMENT NEEDED AT THE PORT

RAM Revolver



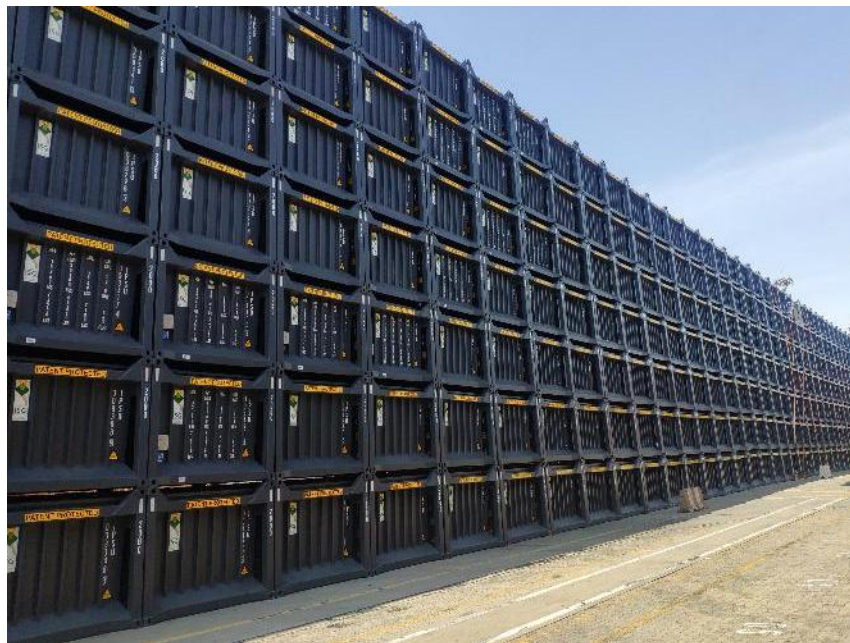
Misting system (optional)





# EQUIPMENT NEEDED AT THE MINE/BULK PRODUCER

## Containers





## TRANSPORT OPTIONS

**Truck**



**Rail**



**Bi-Modal**





## LOW-COST SOLUTION

**CBH is an integrated approach optimizing existing equipment = Low Cost**





## FLEXIBLE SYSTEM

### Benefits for the Terminal

- ✓ Gain new customers using existing equipment
- ✓ Flexible berths (no fixed bulk berth)
- ✓ No dust | No local complaints
- ✓ Low cost
- ✓ Proven | High productivity





## BUSINESS BENEFITS

- ✓ Expand market opportunities for terminals
- ✓ Provides cost effective alternative logistics to shippers
- ✓ Innovative turnkey solution to industry
- ✓ Provides shipper and countries a faster route to market
- ✓ Implement “best practices” into the industry to attract business
- ✓ Responsible care for environment – good business ethic



## TESTIMONIAL



DP WORLD

“Using the RAM Revolver® and purpose-built containers, we increased our volume by 20%, making DP World Adelaide the most profitable terminal in the group”

...Ray Lee

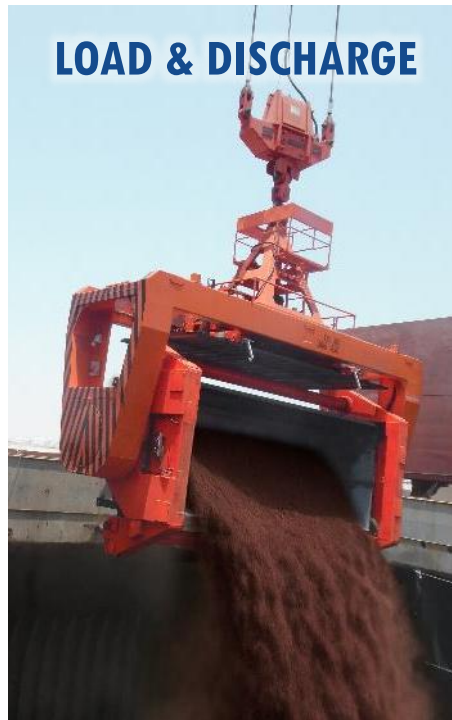


**2000 tons per hour**





## COMMODITIES HANDLED





## MULTI-AWARD WINNING SYSTEM

### Environmental Protection Award - 2014

RAM-Patrick Ports-ISG

### Innovative Technology Award – 2016

RAM-MMG-ISG

### Safety in Bulk Handling Award – 2023

RAM

