



Total Solutions For Your Loading Dock



## Introduction

The MHE-Demag group is the licensee manufacturer of Blue Giant (Canada) dock levellers\* for the ASEAN region. All dock levellers manufactured by MHE-Demag are sold under the brand name MHE-Blue Giant and meet the highest quality and safety standards internationally. To date, MHE-Demag has supplied dock levellers to more than 10,000 installations across South East Asia, making it the market leader in loading dock and docking equipment solutions.

\* All Blue Giant docking equipment is designed to comply with ANSI (American National Standards Institute) norms and standards.





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MILS Warehouse, Port Klang, Malaysia



Fritz Distribution Complex, Malaysia



AJMR Port Services, Philippines



Kawan Lama Warehouse Complex, Indonesia



Singpost Distribution Centre, Singapore



Honda, Thailand



Swire Cold Storage, Vietnam



MSA, Indonesia





CPAK, Thailand



Trident Districentre, Singapore



Unilever, Indonesia



PSA, Singapore



Lotus Tesco Distribution Center, Thailand

More than 10,000 units installed in Asia alone

Supplied to major warehouses across South East Asia

A complete range of products and equipment available for warehousing needs

The name says it all...

**mhe** DEMAG – The *name* for material handling

# MHE-Blue Giant Dock Levellers

## Dock Leveller Standard Features

- Available in 30,000 lbs (13.6 tonnes) or 50,000 lbs (22 tonnes) capacity ratings
- Heavy duty version up to 80,000 lbs (36 tonnes) capacity available
- Heavy-duty I-beam underdeck support
- Heavy duty hydraulic system
- Maintained tilt design compensates for uneven loading conditions
- Working range +/- 12 inches up/down
- Fall-safe safety design
- Weatherproof control box
- Working range toe guards supplied as standard
- Dock bumpers included

## Superior Construction Features



### 1. Lip Hinge

Full width design to maximise strength and to withstand the dynamic forces resulting from heavy loading of material handling trucks and goods.



### 3. Maintained Tilt Design

This unique feature found only on MHE-Blue Giant dock levellers allows the deck to tilt to either side when loaded. The floating action allows full width contact between the lip and truck bed. Prevents damage to forks, tires, steering system and goods as well as prolonging the life of the dock leveller bed.



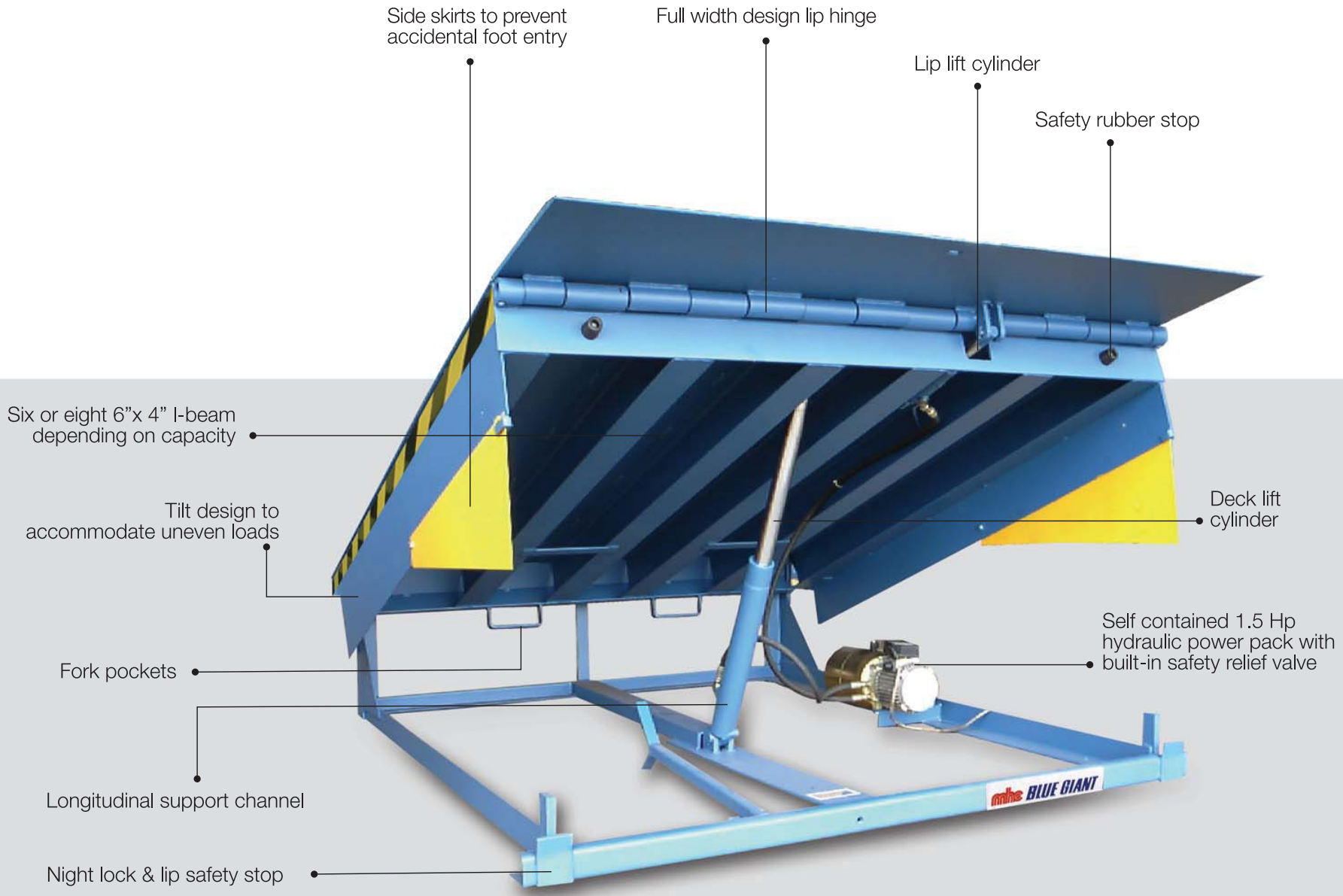
### 2. Underdeck Construction

Deck support is provided by a minimum of six (6) or eight (8) I-beams welded at dynamic impact points. Superior support strength compared to many conventional box beams or C-channel profiles.



### 4. Hydraulic System

Hydraulic power system consisting of hydraulic pump, main and lip cylinders with fall-safe features ensures a trouble-free operation with high safety and reliability at all times. Lasts the life of the dock leveller.



## FH/FHE Series Dock Levellers



### Mechanical Version

HYDRAULIC					DOCK LEVELLER DIMENSIONS				PIT DIMENSIONS			
MODEL	TYPE	CAPACITIES (tonnes)		DECK		LIP	OVERALL	WIDTH	LENGTH	DEPTH		
				WIDTH	LENGTH	LENGTH	LENGTH			FRONT	REAR	
A 686M	MECHANICAL	13.6	22.6	1830	1509	406	1915	1880	1555	508	495	
A 688M	MECHANICAL	13.6	22.6	1830	2119	406	2525	1880	2165	508	495	
A 6810M	MECHANICAL	13.6	22.6	1830	2729	406	3135	1880	2775	508	495	
A 788M	MECHANICAL	13.6	22.6	2110	2119	406	2525	2160	2165	508	495	



### Hydraulic Version

HYDRAULIC					DOCK LEVELLER DIMENSIONS				PIT DIMENSIONS			
MODEL	TYPE	CAPACITIES (tonnes)		DECK		LIP	OVERALL	WIDTH	LENGTH	DEPTH		
				WIDTH	LENGTH	LENGTH	LENGTH			FRONT	REAR	
A686	FH	FHE	13.6	22.6	1830	1509	406	1915	1880	1555	508	495
A688	FH	FHE	13.6	22.6	1830	2119	406	2525	1880	2165	508	495
A6810	FH	FHE	13.6	22.6	1830	2729	406	3135	1880	2775	508	495
A6812	FH	FHE	13.6	22.6	1830	3339	406	3745	1880	3385	508	495
A6686	FH	FHE	13.6	22.6	1980	1509	406	1915	2030	1555	508	495
A6688	FH	FHE	13.6	22.6	1980	2119	406	2525	2030	2165	508	495
A66810	FH	FHE	13.6	22.6	1980	2729	406	3135	2030	2775	508	495
A66812	FH	FHE	13.6	22.6	1980	3339	406	3745	2030	3385	508	495
A786	FH	FHE	13.6	22.6	2110	1509	406	1915	2160	1555	508	495
A788	FH	FHE	13.6	22.6	2110	2119	406	2525	2160	2165	508	495
A7810	FH	FHE	13.6	22.6	2110	2729	406	3135	2160	2775	508	495
A7812	FH	FHE	13.6	22.6	2110	3339	406	3745	2160	3385	508	495

FHE : Dock Leveller with Single Push Button Control

FH : Dock Leveller with Individual Deck and Lip Control and Auto-Park Feature

Power Supply : Standard 3ph/400V/50-60Hz. Other voltages are available upon request





## Dock Leveller Installation Method

### Pit Style

Mounted inside a purpose-built concrete pit and flushed to the floor level of the loading dock. Space-efficient while providing high manoeuvrability of goods or container trucks within the loading area. Also allows easy cross-traffic of material handling trucks when not in use (parked position).

### Frame supported

An ideal solution when a concrete pit is not possible. The dock leveller can be supported with a steel frame and projected out of the loading dock to receive incoming trucks.

### On a concrete or steel ramp

Where there is insufficient space at the loading dock, a dock leveller can be built on a concrete or steel platform to aid loading and unloading of goods from trucks and increase working efficiency.



Pit style



Frame supported



On a concrete or steel ramp



# Mantis Series Dock Levellers



## Mechanical MTS-M

- **Yieldable lip** absorbs shock from reversing trucks that may damage the platform and/or trailer
- **Dual fall-safe legs** protect against platform free-fall below dock level in the event of premature truck departure
- **Hold-down system** controlled by 45,000PSI precision-milled steel ratchet with 13 deep grooves and four pawls for infinite locking capabilities
- **Hydraulic lip dampener** controls extension speed and cushions end motion
- **Fixed rear hinge** remains flush with the floor to eliminate pinch points and cross-traffic obstructions

## SPECIFICATIONS

**Capacities:**  
25,000, 30,000, 35,000 and 40,000 lbs

**Nominal deck widths:**  
6, 6.5 and 7 ft

**Nominal deck lengths:**  
6, 8 and 10 ft

**Working range:**  
12 inches above to 12 inches below dock level

**Lip extension:**  
16 inches standard

**Automatic lateral compensation:**  
4 inches

**Bumpers:**  
2 laminated bumpers (14 x 10 x 4.5 inches)



## Hydraulic MTS-H

- **Yieldable lip** absorbs shock from reversing trucks that may damage the platform and/or trailer
- **Full width lip hinge** provides maximum strength and rigidity
- **Continuous** one-piece headboard strengthens the front dock structure
- **Deck support** features high tensile steel channels that are welded to the underside of the deck at dynamic impact points to prevent 'dishing' and provides long-term structural integrity
- **Fixed rear hinge** remains flush with the floor to eliminate pinch points and cross-traffic obstructions
- **Hydraulic power system** features a totally enclosed and maintenance free powerpack equipped with overload protection and complete set of main and lip cylinder for fully automatic operation

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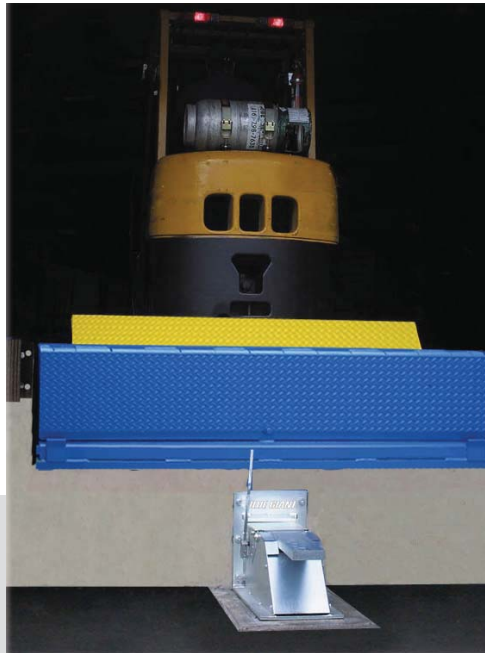
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Acts as a pallet stop



Protects overhead door and tracks from regular impact damage

## XDS Extra Dock Safety Series

- The XDS Extra Dock Safety system is designed to prevent forklift roll-off, overhead door damage and unscheduled truck departure at the loading dock
- Built-in high safety barrier which is hydraulically activated and constructed to stop 10,000 lbs rolling loads up to 4 mph
- It can also be packaged with a truck restraint system to hold the trailer to the loading dock



MD-CM



Mini -Dok



MD-CH (Hydraulic)

## Mini-Dok (Edge of Dock Leveller)

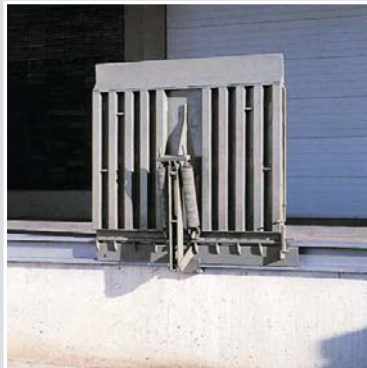
- For applications where standard size trucks are serviced. Working range +/- 100 mm
- Mounted on the face of the dock wall providing a safe and self storing dock
- Available in two versions:
  - Hydraulic and Mechanical versions with push button control
  - Mechanical version equipped with a balanced spring assisted lifting system providing push-pull operation with no lifting required

## VS Series Vertical Dock Levellers

- Vertical storing dock leveller
- Designed for climate controlled applications where the overhead door must be kept closed when not in use or where there are space limitations within the loading dock area
- The dock is stored in a vertical position behind the overhead door allowing a complete energy efficient seal so that heating and cooling loss is minimised
- Working range of 12 inches (305mm) above cross traffic and 6 inches (152mm) below



Front View





## Dock and Safety Accessories



### TL85 Truck Restraint System

- Prevent accidental, unscheduled or unauthorised departure of trailers which can cause forklift accidents or roll-off
- Designed to hold the ICC bar of any type of trailer to the loading dock
- Automatic push-button electro-hydraulic operation
- Able to “catch-on” to any type of trucks even with bent or damaged ICC bars

### ML10 Truck Restraint

- Mechanically activated truck restraint
- Manual operator activation and deactivation

## Dock Accessories



Control panel with LED signal lights for forklift operator safety. Comes with interior lights and override key switch



Warning signs



Exterior LED traffic lights



Dock lights



## Elevating Docks

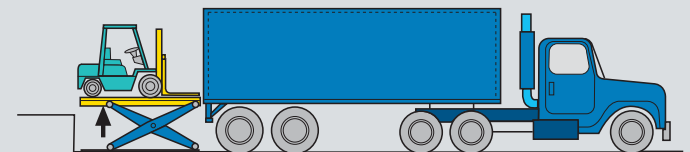
For warehouses without raised docks, or when there is a great difference between the highest and lowest truck heights.



Side View

### Features:

- Available in various capacity ratings: 5,000 lbs (2.2 tonnes), 6,000 lbs (2.7 tonnes), 8,000 lbs (3.6 tonnes), 10,000 lbs (4.5 tonnes), 12,000 lbs (5.5 tonnes), 15,000 lbs (6.8 tonnes) and 20,000 lbs (9.0 tonnes)
- Can be mounted in a pit or anchored to a concrete pad
- Comes in various standard sizes for easy installation
- Superior construction with full length deck beam for maximum support and solid plate steel legs for maximum rigidity
- All pivot points equipped with maintenance free lubricated bushes and scissor leg roller bearings
- Fall-safe design prevents platform free-fall in case of hydraulic system failure
- Optional handrails
- Optional lip with lifting chain







## Elevating Dock Installation







## Dock Seals and Shelters

Reduce energy loss, maintain internal temperature as well as protect products and packaging from the outside elements while promoting safety and reducing pilferage at the loading bay.



### Foam Pad

Compression dock seals provide the most effective seal and the most economical sealing solutions. Suitable for loading docks where only one type of truck is serviced e.g. container trucks.



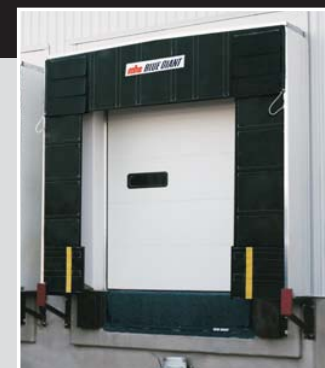
### L-Pad

The L-Pad series offer the sealing capability of a compression seal with the versatility of a truck shelter while eliminating any pressure on the building wall. The construction allows better access to the trailer's cargo space without any side obstruction.



### Inflatable Dock Seals

Optimum solutions where a fixed frame seal or shelter is not feasible and where a variety of different height and width trailers are serviced. Ideal for problem dock areas such as sloped or difficult driveway approaches.



### Truck Shelters

Truck shelters offer great versatility as they can accommodate the widest range of vehicles. They are mainly used to protect goods and personnel from rain, dust, insects and extreme weather conditions.



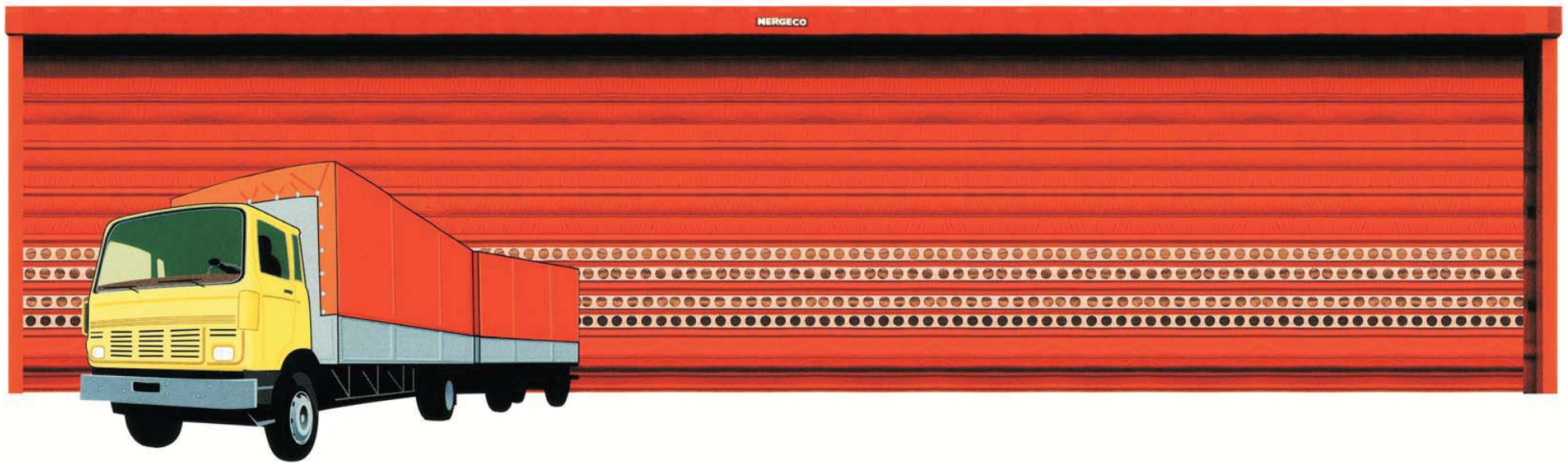


## Sectional Doors

The ideal door choice for applications that demand thermal efficiency, minimum air infiltration and windload resistance. Suitable for temperature controlled or sensitive goods warehouses.

### Features of Sectional Steel Door range:

- Lightweight, strong and durable panel construction
- Manufactured from steel-polyurethane-steel, the panel construction provides superior thermal efficiency, exceptional strength-to-weight ratio and proven durability
- Roll-formed, hot dipped galvanised steel interior and exterior panels
- Double coat baked-on polyester paint for a durable finish
- High performance and energy efficient
- With R-values up to 17.5 (3.09 w/msq) and air infiltration performance up to 0.08 cfm at 25 mph (2.26 lpm at 40 kmh)
- Meets stringent windload requirements
- Exceptional panel strength and superior track design withstands harsh wind conditions in accordance with ANSI/DASMA 102-1996 standards
- Heavy duty track and hardware fabricated from high-quality galvanised steel and engineered for a precise, trouble-free performance
- Flexible PVC bottom weatherseal with retainer lessens conductivity of heat and cold, minimises air and water penetration and accommodates irregular floor conditions



## High Speed Doors

Maintain an ideal environment for goods and personnel (against non-optimal temperature, humidity, dust, insects, etc) in areas of high traffic volume and intensity.

### External / Internal Traffic Flow

**EXPOSED LOADING BAYS**  
all dimensions up to 6 x 6 m  
Wind speeds up to 100 kph

**STAR<sup>2</sup> Trekking**

Self-supporting reinforced, treated multiple bends steel frame  
Single or double skin vertical fold-up flexible curtain  
Safe, flexible, shock-absorbent bottom edge  
Wide side guides for efficient curtain clearance even when bent by impact  
Speed 0.6 to 0.9 msec.  
Motor under exterior hood

**DISTRIBUTION ACTIVITIES**  
all dimensions up to 4.5 x 4.5 m  
Wind speeds up to 40 kph

**STAR<sup>2</sup> Forum**

Compact self-supporting treated steel frame  
Flexible vertical roll-up curtain, speed 1.2 m/sec., safe, flexible bottom edge, pops out upon impact, automatically reinserts  
Motor under exterior cover

### Cold Stores

**BETWEEN TWO BELOW FREEZING AREAS**  
all dimensions up to 4 x 4 m

**FRIGO<sup>1</sup> Forum**

Self-supporting frame with heated side guides  
Flexible, vertical roll-up curtain with safe, flexible bottom edge, pops out upon impact, automatically reinserts  
Vertical freezer safe motor

**BETWEEN TWO COOLER AREAS**  
all dimensions up to 4.5 x 4.5 m

**FRIGO<sup>2</sup> Trekking**

Self-supporting cooler type frame  
Flexible, vertical fold-up double skin insulated curtain  
Flexible, safe, impact absorbent bottom edge  
Wide side guides for efficient curtain clearance even if bent by impact  
Exterior vertical motor

**BETWEEN FREEZER AND AMBIENT INTERIOR AREAS**  
all dimensions up to 4.5 x 4.5 m

**FRIGO<sup>3</sup> Trekking**

Self-supporting frame with heated side guides  
Flexible, vertical, triple skin extra insulated fold-up curtain  
Flexible safe impact absorbent bottom edge  
Wide insulated side guides for efficient curtain clearance even if bent by impact  
Freezer safe frame integrated motor





Hand Pallet Trucks



Power Pallet Trucks



Electric Stackers



Drive-In Stackers



Order Pickers

## Warehouse Trucks

A complete range of material handling trucks for various applications within the warehouse.



Reach Trucks - Kangaroo Series



Reach Trucks - Humanic Series



Electric Forklifts - 3 Wheeler



Electric Forklifts - 4 Wheeler



Very Narrow Aisle (VNA) Trucks



The **name** for material handling

www.mhe-demag.com | email: sales\_mhe-demag.com

A Joint Venture between Jebsen & Jessen (SEA) Pte Ltd and Demag Cranes & Components GmbH

## MHE-Demag Network

### SINGAPORE

#### **MHE-Demag (S) Pte. Ltd.**

33 Gul Circle, Singapore 629570

Tel: (65) 6305 3500

Fax: (65) 6862 1933

Service Hotline: (65) 6862 1123

### INDONESIA

#### **PT MHE-Demag Indonesia**

Graha Inti Fauzi Building, 7th floor,

Jl. Buncit Raya No. 22

Jakarta 12510

Tel: (62-21) 2753 7200

Fax: (62-21) 2753 7201

Service Hotline: (62-21) 2753 7250

### PHILIPPINES

#### **MHE-Demag (P) Inc.**

Main Avenue,

Severina Diamond Ind Estate,

Km. 16 West Service Road,

South Expressway,

Parañaque City 1700

Tel: (63-2) 786 7500

Fax: (63-2) 786 7555

Service Hotline: (63-2) 821 5149

### MALAYSIA

#### **MHE-Demag Malaysia Sdn. Bhd.**

#### **MHE-Demag Logistics**

#### **Malaysia Sdn. Bhd.**

PT 79, Jalan 26/6, Sec 26,

Kawasan Perindustrian Hicom,

40000 Shah Alam, Selangor

Tel: (60-3) 5517 0888

Fax: (60-3) 5517 0998/9

Service Hotline: (60-3) 5517 0980/1

### THAILAND

#### **MHE-Demag (T) Ltd.**

23/110-117 Sorachai Bldg.,

25-29th floor,

Sukhumvit 63 (Ekamai),

Sukhumvit Rd., Klongton Nua, Wattana,

Bangkok 10110

Tel : (66-2) 7878 500

Fax : (66-2) 7878 501-2

Service Hotline: (66-2) 7878 555

### VIETNAM

#### **MHE-Demag Vietnam Co. Ltd.**

Unit A6, 6th floor, Harvest Center,

12 Le Thanh Ton St., Ben Nghe Ward,

District 1, Ho Chi Minh City

Tel: (84-8) 8236540

Fax: (84-8) 8236776

### Affiliate

#### **Katrolin Co. Ltd.**

Unit B6, 6th floor, Harvest Center,

12 Le Thanh Ton St., Ben Nghe Ward,

District 1, Ho Chi Minh City

Tel: (84-8) 8236727

Fax: (84-8) 8236728



**AN PHAT DAT** Crane Equipment Co.,Ltd.

Add: 165/75 Nguyen Thai Binh Str., Nguyen Thai Binh Ward, Dist.1, HCMC  
Tel: +84 28 3914 1801 • Fax: +84 28 3914 1803 • VAT code: 0305502999  
Email: anpcranes@anpcranes.com.vn • Website: www.anpcranes.com.vn