Loading bays provide a bridge for servicing trucks in logistic hubs. Using dock levellers promotes the safety of the goods and operators, and facilitates efficient loading and unloading operations.

MHE-Demag, having partnered with Blue Giant since 1988, is the premier supplier of dock levellers for the warehousing and logistics industry across Asia Pacific. We are proud to have over 18,000 installations in all sorts of warehouses to our name. Our range of warehousing equipment is known for its quality and reliability, with many testimonies from satisfied customers all over the world.
Dock Levellers

Serving as a bridge between warehouses and incoming lorries, dock levellers have become an essential equipment in logistics facilities. Our standard range of dock levellers can be installed in pits, on frames or on ramps, depending on the layout of the loading bay.

**Pit Style Dock Levellers** are mounted inside a purpose-built concrete pit and flushed to the floor level of the loading dock. They are the most space-efficient solution and allow the easy cross-traffic of lift trucks when the dock leveller is not in use (parked position).

**Frame Supported Dock Levellers** are an ideal solution when a concrete pit is not possible. Supported by a sturdy steel frame, they are projected out of the loading bay to receive incoming trucks.

**Dock Levellers on Concrete or Steel Ramps** are an option when a facility does not have a loading bay or when there is insufficient space available in the loading bay.

To cater to all types of warehousing facilities, we have further docking solutions, including:

- **Edge-of-Docks** are suitable for loading bays that are already levelled to the height of the serviced truck beds. Mounted on the face of a dock wall, Edge-of-Docks provide a safe and self-storing dock.
- **Vertical Dock Levellers** are ideal for cold storage applications where doors have to be fully closed and sealed when not in use. As the dock is stored in a vertical position, they also solve space limitations in the loading area.
- **Elevating Docks** are the most suitable option for warehouses without raised docks, or where the height of serviced trucks varies greatly. They come in various standard sizes with capacities up to 9 t. Mounted on a pad or anchored to a concrete pad, they are very easy to install and maintain. A fail-safe design prevents platform free-fall in cases of hydraulic system failure.
Dock Leveller Features

Our standard range of dock levellers can handle loads up to 22.7 t. This can be raised up to 36.3 t SWL upon request. The working range is +/- 305 mm (up/down), further enhanced by an independent lip control. Absorbing tilt pockets compensate for uneven load distributions during loading. This technology enables the deck to adapt smoothly to the truck bed, ensuring that the lip is always flushed with the truck. Heavy-duty I-beam underdeck support ensures that the decks do not bend out of shape and provides stability and longevity to the equipment.

For a further stability boost, a fall-safe design, including rupture valves for hydraulic systems and drop-down bars for mechanical systems, ensures that the dock does not collapse when accidentally overloaded.

Toe guards on the flanks of the dock leveller ensure that feet, equipment and materials are not jammed under the decks, effectively preventing serious injuries and damages.

Designed with durability in mind, the control boxes are weatherproof with IP 66 rating.

Dock Leveller Specifications

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FHE: Dock Leveler with Single Push Button  FH: Dock Leveler with Individual Deck and Lip Control  Power Supply: Standard is 3ph / 400V / 50-60Hz. Other power options are available upon request.
**Safety At The Bay**

**Extra Dock Safety Barriers** prevent forklifts from rolling off. They act as pallet stops and protect overhead doors from regular impact damage. They are hydraulically activated when the dock levellers are not in use and constructed to stop 10,000 lbs rolling loads at speeds of up to 4 mph.

Alternatively, we also provide **Dock Lip Barriers**, which are an extension of the lip that acts as a barrier when the dock leveller is not in use.

**Truck Restraints** prevent accidental, unscheduled or unauthorised departure of trailers from the loading bay. They are designed to hold the ICC bar of any type of trailer to the loading dock and are even able to catch onto bent or damaged ICC bars. Truck restraints can either be manually operated or controlled via automatic push-button electro-hydraulic operations.

**Contols & Signals**

From standalone control boxes to interlocking systems of docking equipment, MHE-Demag provides operation and access solutions tailored to your needs.

For example, **Blue Genius™ Master Control Stations** integrate dock levellers, doors, shelters and truck restraints into one concerted system. This allows you to operate the whole loading bay effortlessly and in sync, saving time and increasing safety. It is also possible to integrate access control systems to ensure that only authorised personnel can access and operate the loading bays with access card or biometric identification. Optionally, you can also link the controls to a fire safety system that opens and closes selected doorways.

Last but not least, our range of **Signals, Signs and Traffic Lights** can aid safe loading processes within the dock.
Dock Seals & Shelters

Dock seals and shelters help to reduce energy loss, maintain internal temperature and protect products and packaging from external elements. They are especially vital in cold storage applications and clean room warehouses.

**Foam Pad Dock Seals** lock the truck opening to the warehouse through the compression of the serviced truck. While they provide an economical sealing solution, they are only suitable for loading docks that service a single type of truck as they are unable to adapt to different truck sizes.

**Inflatable Dock Seals** provide the best sealing and have the flexibility of servicing trucks of different heights and widths. They can also be used in problematic dock areas with sloped or difficult driveway approaches.

**Retractable Dock Shelters** offer the greatest versatility as they can accommodate the widest range of vehicles. As they reach out to cover the truck, they are especially useful in protecting goods and personnel from rain, dust, insects and extreme weather conditions.

**Industrial Doors**

Our **Sectional Doors** come with full insulated panels using Energoflex™ and polyurethane insulation. This insulation has a Watertight Class 1 (30 Pa), a Heat Conductivity Factor of 0.38 W/m °C as well as Windload Class 3 (120 km/h) as per EN 13241-1. Optional windows let in light while ensuring that incoming lorries are visible from the inside when doors are closed. Even pass doors are possible.

**High Speed Doors** come in handy when time is of the essence in your logistics operations. With an opening speed of 1.2 m/sec and a closing speed of 0.8 m/sec, we offer some of the fastest doors in the industry. They can be operated manually (via push button or pull cord) or automatically (triggered by radar detection or photo cells), ensuring a hassle-free goods flow.

The robust panels of these doors are made of reinforced PVC and even have a self-repairing ability. For the safety of operators and equipment, the doors come with a soft bottom panel and, upon request, can also be equipped with photo cells and bottom safety edges to ensure that the door does not close when there is an obstruction in the doorway.
**Lift Trucks**

We offer a wide range of Lift Trucks for pallet handling at the loading bay:

**Power Pallet Trucks** are a convenient solution when your goods are getting too heavy to pull with Hand Pallet Trucks. Available as walkie types or with a foldable rider platform, they lend the operator the strength to handle pallets up to 2 t effortlessly. For higher capacities up to 3 t, our Heavy Duty Pallet Trucks are ideal for floor level pallet handling.

**Forklift Trucks** are the prime solution for pallet handling that requires lifting as well (up to change to: 6.5 m). Depending on your requirements, we offer battery powered Electric Forklift Trucks as well as IC Forklift Trucks, which are fuelled by diesel, petrol or LPG. Capacities range from 1 t to 5 t but can be raised up to 25 t upon request.

For handling goods in racking systems inside a warehouse, MHE-Demag has an extensive variety of lift trucks:

**Stackers**, pictured above, are an economical solution for handling goods in racking systems. Available in manual, semi-electric and fully electric versions, they have a capacity of up to 1.5 t and a lifting height of up to 4.5 m. To handle closed pallets, we also have stackers with counter balance, and for higher racking systems (up to 5.8 m), we can offer High-Lift Electric Stackers.

**Reach Trucks** offer lifting up to 1.2 m with a capacity of 2 t, to perform racking activities safely and with minimum fuss.

**Narrow Aisle Trucks** are able to navigate aisles as narrow as 1.2 m. Therefore, additional racks can be built to increase warehouse capacity by 30%.

**Order Pickers** are needed when personnel have to be lifted to high racks for stock-taking or to hand-pick goods from the shelves.
To ensure proper usage of your equipment, we conduct trainings that cover all technical aspects as well as all safety issues and procedures for execution and maintenance.

If a machine needs to be repaired or rehabilitated, we are also ready to help you get the job done. To deliver speedy maintenance services, we keep an inventory of the most vital and frequently used parts. With over 60 service centres in the region, a team of more than 600 service engineers and technicians as well as a fleet of 300 service vans, we are there whenever you need us—around the clock, 24/7.

We are also able to conduct equipment audits, regularly or upon request, and provide a detailed report on the condition of your equipment. With our preventive maintenance services, you can be sure that your equipment will always be in good working condition.