



Loading Bay Equipment

OUR CREATIVE SERVICE

GET
SUPPORT



ABOUT US

Since 1995 Lakhera Automation has grown to be recognized as one of India premier manufacturers of Loading Dock and Dock Lift Equipment. The simple business philosophy of manufacturing a quality product with user safety in mind continues to be our approach in the marketplace. Lakhera Automation reputation with in the materials handling industry.

Lakhera Automation has a team of industry experts with extensive experience that stands ready to assist you with your most complicated applications

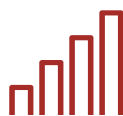
Lakhera 's dock levelers are designed to act as bridge between warehouses and truck body and to provide quick and unimpeded movement of forklifts during loading/unloading. They can be used with trucks which are equipped with tail-lifts.



SAFETY · RELIABILITY · EFFICIENCY

These superior solutions are conceived developed and realised by a team of specialised professionals with unique experience. Thanks to its quality people' its total in house production process and its international organisation, Lakhera is a leading party in the field of dock levellers , dock shelters and Scissor lifts.

Lakhera Docking Equipments reduce costs, processing times and risks

 **Creative
Marketing**

 **Easy To
Customize**



WWW.LAKHERAAUTOMATION.IN



Hydraulic Dock Leveller



Hydraulic hinged lip dock levellers

The electro hydraulic dock levellers with hinged swing lip are designed and built to meet the demands of high-volume loading and unloading provide the most durable performance with low lifetime cost of ownership.

The Hydraulic Dock Leveller is operated with only one push button. By keeping the push button pressed, the platform will go up from its rest position, when the highest point is reached, the lip will swing out. When the push button is released, the platform and lip will descend automatically to the level of the vehical bed.

Safer, more versatile and stronger with open lip hinge

The transition between the warehouse floor and truck is always easy and smooth, thanks to the closed rear hinge, the 2 mm lip thickness is created by using a 80 mm long chamfer. During the loading and unloading process the leveller adjusts itself automatically to the changing floor height of the truck, even if the truck is loaded unevenly. The S-Series, available in many different sizes, is an excellent choice for almost every dock situation.

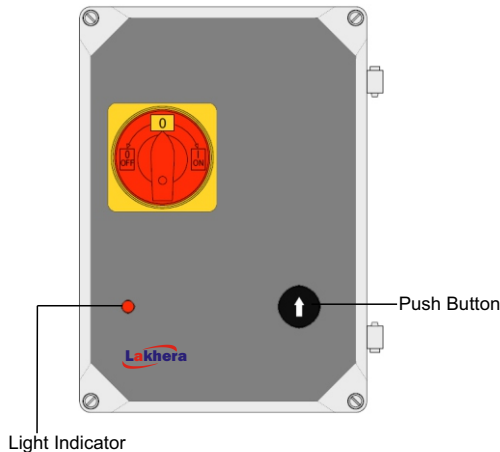
Unique open lip hinge



Two safety supports



User-friendly 1 Button control box



Excellent choice of sizes

The versatile is perfect for customisations. The length of the platform is mainly determined by the height difference between the warehouse floor and the different types of trucks.

The used material handling equipment should be applicable and in accordance with the EN 1398 Directive. We are happy to advise you during the early stages of your dock design and choice of loading bay equipment.

The Lakhera dock leveller is operated with only one push button. By keeping the push button pressed, the platform will go up from its rest position, when the highest point is reached, the lip will swing out. When the push button is released, the platform and lip will descend automatically to the level of the vehicle bed.

After the loading and unloading process has been completed the dock leveller can be returned to the rest position by continuously pressing the 'return button'

The Lakhera dock leveller is very robust and reliable and is equipped with 2 platform cylinders and 1 lip cylinder. The open and self cleaning hinge design prevents accumulation of dirt in the hinge.

Dimensions & working range			
Platform Length	Building Height	Working Range	
2000	500	+415	-/-290
2500	500	+370	-/-280
3000	600	+355	-/-275
3500	600	+315	-/-270
4000	600	+295	-/-265
Platform width: 2000 or 2250			
All dimensions in mm			

A wide range of levelers according EN1398 for different pit constructions

Installation

The complete dock leveller may be installed with a base-supported frame (SP) in a closed pit and (SF) with a suspended frame in an open pit. Both installations are easy to perform. Lakhera can provide all the necessary information for construction and installation including drawings.

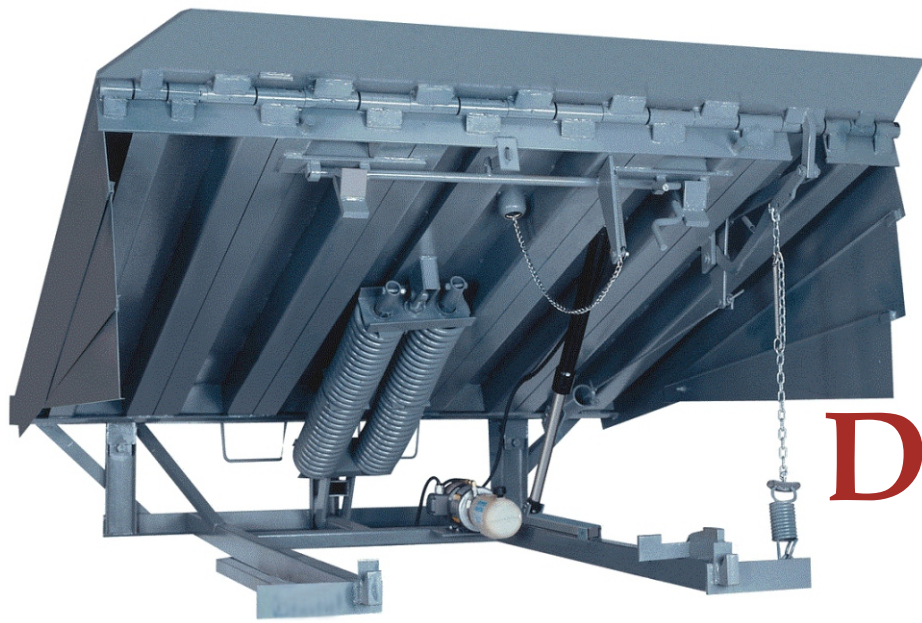
The platform, the beams and the lip are made of high tensile steel (S355J0/STEEL 52). For the SF, SP en SPL the platform and lip are equipped with tear plate (8/10 mm resp. 13/15 mm) as anti-slip surface. For the SFH and SPH (8/10 mm resp. 15/17 mm). This plate thickness makes suitable for 3-wheel forklift trucks.

- The levellers are already equipped with cables and between the leveller and the control box.
- All frame components are galvanised. Platform, lip and front angle are black RAL 9011. Standard protection is an anticorrosive coating and paint finish of 80 micrometres total thickness. Special colours are available upon request.



More information?

Please contact us for more information about the Hydraulic Dock leveller or our other products, dock shelters etc. We will gladly give you personal advice for a superior solution.



Manual Dock Leveler

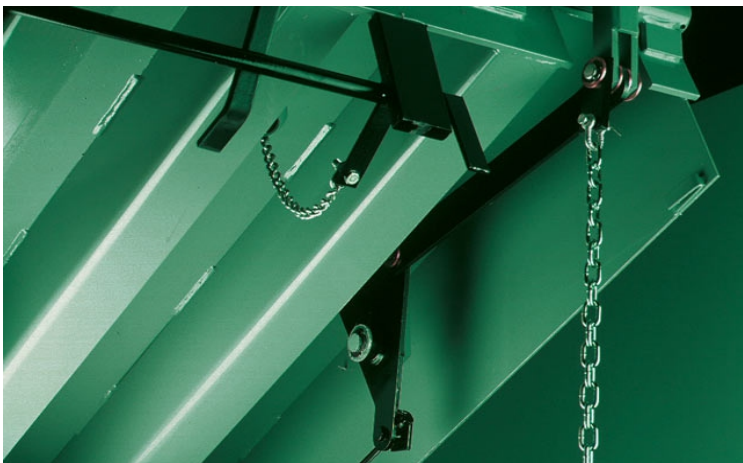
The Lakhera dock leveler is a pit-mounted and manually activated unit that uses a single point adjustment extension spring counterbalance, a field-proven, industrial hold-down mechanism and automatic lip extension to provide years of durability and dependability in a variety of loading dock applications.

OPERATION

The leveler is raised by pulling the release ring at rear of ramp which releases the hold-down mechanism and activates the extension springs. As the leveler rises, the lip will extend in a smooth, controlled manner. The operator then walks the ramp down to truck bed. The hold-down mechanism shall hold the leveler in position. After loading or unloading is complete, the operator pulls and holds release chain until lip clears the truck bed. The lip will descend slowly to a pendant position. The operator then walks the ramp down into stored position.



Smooth-running loading and unloading



The Lakhera manual dock leveler provides exceptional endurance and efficiency. The unlimited float hold-down requires less force to walk down into position, produces less wear on components and has an overall lower lifetime cost of ownership than conventional mechanical dock levelers.

Single adjustment point extension spring counterbalance

Field-proven industrial hold-down mechanism

Automatic lip extension

High tensile steel lip, deck & beams

Open subframe design

Structural steel safety legs

Working range toe guards

Below-dock end load capability

Integral maintenance strut & lip support latch

Reduced lip crown/extended lip chamfer



Advance to the NEXT LEVEL

Standard sizes

Dimensions & working range

Platform Width	Building Length	Working Range	
1828	1828	+270	-/-290
2133	1828	+330	-/-280
1828	2438	+395	-/-275
2133	2438	+375	-/-270

All dimensions in mm

* Optional

A stronger, safer solution... for today's material handling challenges.

Lakhera manual dock levelers are easy to use: simply pull the release chain and let the heavy-duty main lift springs go into action.

The deck rises up and the lip extends smoothly to the locked position. Then 'walk' the deck down to the truck bed and begin loading or unloading.

Structural Integrity

- U-beam channels are welded to the underside of the deck at dynamic impact points, preventing 'dishing' and prolonging the life of the dock leveler.
- The continuous one-piece headboard intensifies the strength of the deck's front structure. A single lip hinge pin enables a stronger distributed load.

Designed with Safety in Mind

- If a truck leaves the dock unexpectedly or slides free of the lip plate, mechanical fall-safe legs prevent platform free-fall, minimizing the risk of worker injury and equipment damage.



Ergonomic Soft-pull Chain: Requires minimal force to deploy the deck.



Heavy-duty Lift Springs:



Full Frame:
Strategic design provides full deck support



Maintenance Strut:
Supports both deck and lip for safe under-deck maintenance and inspections.



Telescopic Dock Levelers

Hydraulic telescopic lip dock levelers

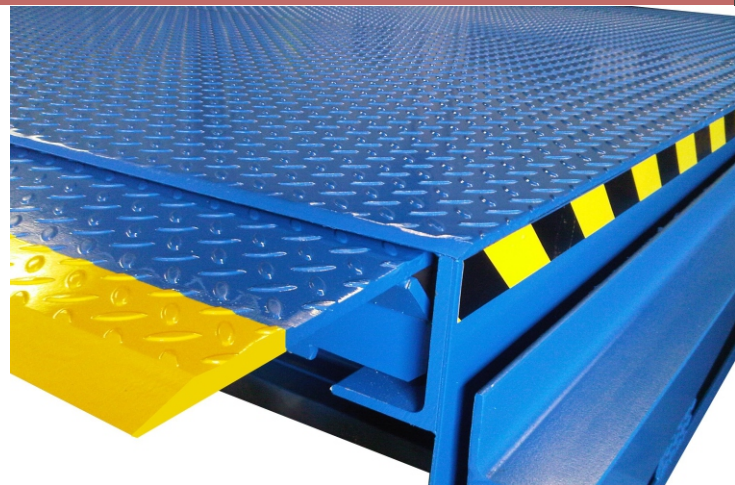
Lakhera dock levellers provide infinite positioning of the telescopic lip on the truck bed and are designed and built to meet the demands of high volume loading and unloading. Lakhera telescopic dock levellers also provides the most durable performance with low lifetime cost of ownership.



The ideal dock leveller for end loads

The telescopic lip is fully controllable at variable lengths of up to 1000 mm. This makes ideal for efficient loading and unloading end loads. The long chamfers and the lip angle ensure a smooth transition from the dock leveller to the vehicle floor in every situation.

Telescopic dock leveller is suitable for 3-wheel forklift trucks. In addition provides superior practicality thanks to the auto park function and extensive control options. The various installation methods, wide range of sizes and load capacities of 6 or 8 tonne t any situati



Superior safety

The EN 1398 safety standards. In case of premature vehicle departure (if the forklift truck is still on the leveller), the automatic panic-stop activates. The leveller in most cases remains in operation even after a panic-stop situation. The emergency stop button on the control box can also be operated at any time. The platform can tilt 125 mm to both sides without influencing the functionality of the centre positioned robust main cylinder and, therefore smoothly following the movements of the truck. During maintenance, the platform is held safely in position by means of two maintenance supports. When the platform is in parked position, it is automatically supported by two cross-traffic safety legs.





Advanced systems: fully controllable telescopic lip and auto park function

Standard sizes

Dimensions & working range			
		500 mm Lip	850 mm Lip (*)
Platform Length	Building Height	Working Range	Working Range
2000	700	+270 -/-290	- -
2500	700	+330 -/-280	+375 -/- 445
3000	700	+395 -/-275	+435 -/- 415
3500	700	+375 -/-270	+415 -/- 385
4000	700	+350 -/-265	+380 -/- 365
Platform width : 2000 or 2250mm All dimensions in mm		* Optional	

Ample choice of sizes

The length of the platform will primarily be determined by the height difference between the warehouse floor and the expected range of vehicle loadbeds. Stertil bases its sizes on a lower maximum incline than is permitted by EN 1398 Directive in order to guarantee smoother loading and unloading with less physical strain. We would be happy to advise you about the most efficient sizes and designs at the early stages of dock planning.

Simple control

Practicality and safety go hand-in-hand with the advanced control system. The dock leveller can be positioned perfectly using the three control buttons, and returned to the parked position using the standard auto park function.

There are several advanced control options which provide additional functions: door control, shelter control, automated interlock to prevent operation when the dock door is not fully open, and automatic door closure locking until the leveller has been parked correctly.

Low maintenance costs

The Lakhera's Telescopic Dock leveller guarantees smooth loading and unloading, minimising the risk of damage to goods and to loading trucks. This considerably increases their operating life and cuts down on maintenance. The leveller itself offers superb performance thanks to its high quality construction and low maintenance costs.



Unique sliding lip



One hydraulic (main) cylinder



Invest in Safety.

Engineered for safety and security, Lakhera vertical Draw Bridge dock leveler will put control back in your hands and profits back in your pocket.

The perfect leveler for grocery business, food processing, cold storage, humidity controlled facilities, and high security application.

Easy to move

Mechanical drawbridge can have stationary or sliding design. Sliding drawbridge allows you to load/unload goods in several places, moving along the guide rail from one place to another.

Smooth Transition:

Innovative deck hinge design enables a level surface for cross-docking traffic.

MECHANICAL DRAWBRIDGES SIZE AND SPECIFICATIONS

Technical Specifications	Parameters
Length,mm	1000/1500
Width,mm	1200/1500/1800/2000
Lip length , mm	210
Working range, mm	from -180 to +180
Load capacity, kg	4000
Maximal point load, N/mm ²	1,3
Operating temperature range, C	-30.... +50

Maximize Safety and Productivity

Why go vertical with your leveler? The Vertical DrawBridge Leveler is part of a total integrated solution developed for today's industrial market in order to improve cleanliness, protect overhead doors, increase security, improve productivity, and reduce energy loss.

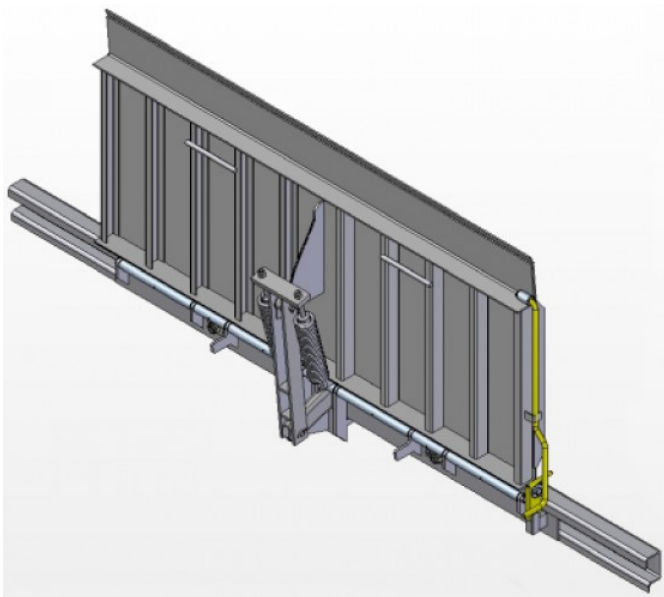
All accomplished in Lakhera continued promise in looking ahead, answering the industry's toughest issues with innovative thought leadership.

Vertical Draw Bridge Dock Leveler

Lakhera mechanical Vertical drawbridge are installed on open ramps to compensate height difference up to 360 mm, depending on a model. They are designed for work with trucks or trailers, which have approximately the same height. When loading/unloading the track can be lowered in the truck body using the side handle until the lip rests on the truck. After loading/unloading is completed, the track rises and returns to its original position.

Energy Savings. Security. Cleanliness.

All in one efficient and leading-edge design.



Safety Stand:

Integral safety stand keeps the deck securely upright during servicing.

Maintenance Strut:

Built-in stand with lockout pin prevents leveler use during cleaning or maintenance.

Edge Dock Leveler

When dock space is limited or the working range of a full size, pit-style leveler is not needed; Lakhera's edge dock levelers are an economical option. Edge dock levelers mount to the dock face and provide a working range of 5 inches above and 5 inches below dock.

Level small height differences easily

The Edge Dock levelers the flexible solution for situations where small height differences between the vehicle and loading floor apply . Available in a hydraulically operated or manually operated. Edge Dock levelers offer the same high level in terms of operated .Edge Dock Levellers offer the same high level in terms of operation and safety as other Dock levellers.



HYDRAULIC EDGE-OF-DOCK LEVELERS

The hydraulically operated models offer one push - button operation. Maximum safety and security with 500 mm safety distance between the docked vehicle and Edge Dock platform parks in an up-right position for some models. The models are equipped with a swing lip and open lip hinge which has the advantage of dirt and debris free and have a dynamic capacity of 6 tons. These models can be installed in a pit if required.

Standard Size

TOTAL UNIT WIDTH	TOTAL UNIT LENGTH
2000	800
2100	800

All Dimensions in mm

Operation

- Easy to deploy, less effort "operator maintains constant control"
- Working range capability of 5" (127 mm) above and 5" (127 mm) below dock level
- Self-storing upon truck departure

Ease of service

- Single push button station
- Grease fittings to minimize operational friction
- Optional grip handle for use as maintenance stand



MANUAL EDGE-OF-DOCK LEVELERS

The manually Edge Dock is easy to operate by means of lever which is supplied with the leveller. The open lip hinge makes it possible to smoothly position the leveller on the vehicle floor. After loading and unloading the vehicle can drive away and the leveller automatically returns to idle position, also possible manually

Features

- Deck and lip operation assisted by balanced spring lifting system
- Smooth top plate transition
- Comfort grip operating handle
- Lifting hole in lip allows for quick and easy handling by installer

Standard Size

TOTAL UNIT WIDTH	TOTAL UNIT LENGTH
2000	600
2100	600

All Dimensions in mm

Operation

- Easy to deploy, less effort "operator maintains balanced control"
- Working range capability of 5" (127 mm) above and 5" (127 mm) below dock level
- Self-storing upon truck departure



The
technology
that shuts
out all risks

Dock Shelter

Dock shelters act as a seal between the warehouse door opening and the truck body ensuring maximum impermeability. Dock shelters prevent dust, wind, rain, insects and draughts from entering into facility. Lakhera dock shelters are available in various types .

Inflatable Dock Shelters

Designed to suit door openings up to 8' W x 10' H (2,438 mm x 3,048 mm), The Lakhera Adjustable Inflatable Dock Seal has vertical air bags that increase the contact area against the trailer and tighten the seal to keep product secure. An internal retraction spring permits the header air bag to be fully retracted when not in use, preventing collision damage from incoming trailers



Inflatable Dock Shelter

Curtain Shelters

The curtain type dock shelters can be noncollapsible or with retractable structure. It is especially convenient to use dock shelters at warehouses where perishable goods require a special loading conditions.

With its various frame types and curtain materials this curtain shelters is universally applicable . The design is well thought-out with remarkable details like the white (and wear proof) markings on the side curtains that help the driver backing against the dock.



Curtain Shelter

Retractable Dock Shelter

Designed to suit door openings up to 10' W x 10' H (3,048 mm x 3,048 mm), the Lakhera Retractable Shelter provides full access to the rear of the trailer while creating a tight seal against the top and rear. The collapsible frame is designed to retract upon impact, reducing pressure against the curtains and extending the life of the unit.

Technical Chart

NW	NH	ND	A	B
3200	3200 - 4700	600/900	1000/1200	600
3250	3200 - 4700	600/900	1000/1200	600
3300	3200 - 4700	600/900	1000/1200	600
3350	3200 - 4700	600/900	1000/1200	600
3400	3200 - 4700	600/900	1000/1200	600
3450	3200 - 4700	600/900	1000/1200	700
3500	3200 - 4700	600/900	1000/1200	700
3550	3200 - 4700	600/900	1000/1200	700
3600	3200 - 4700	600/900	1000/1200	700

NW : Nominal Width
NH : Nominal Height
ND : Nominal Depth

A : Top Curtain Height
B : Side Curtain Width

All dimensions in mm



Retractable Dock Shelter

Scissor Lifts

Lakhera Scissor Lift Products help increase productivity and employee safety with innovative, cost effective solutions to the unique challenges associated with moving products in the plant and on the dock.

Lakhera Hydraulic Scissor Lifts make product handling and loading operations more efficient in applications where space is restricted. Scissor lifts are a cost effective alternative to space consuming concrete ramps and can accommodate a wide variety of truck sizes and styles from pickups to standard semi-trailers and more. Lakhera Hydraulic Scissor Lifts can be pit or surface-mounted inside the building or in front of the loading dock for optimal versatility.

From ground to dock and back again Adjustable loading and unloading at any height!

The Most Versatile Way to Serve the Most Varied Fleet

By keeping the loads level, loading and unloading is safer and easier than ramps and steep inclines, and utilizing almost 5' of travel height, Lakhera Scissor Lift can service almost any vehicle or trailer you back up to them.



The Advantages of a Lakhera Scissor Lifts

When the loading area just doesn't lend itself to a dock leveler or Edge-of-Dock, take advantage of a Lakhera Dock Lift. Safer than ramps and inclines, faster than manual loading or unloading and less expensive than a recessed truck well, the Lakhera Scissor Lift can be a smarter way to go.

Removable mandrel-formed tubing handrails.

Beveled toe guards (for pit mounted applications)

Dual hydraulic lifting cylinders for optimum performance

Upper travel limit switch (not shown)

Maintenance safety device (not shown)

Dual safety chains across operating ends

18" standard solid or split bridge plate

Velocity fuses on lift cylinders prevent uncontrolled descent

Manual lowering valve lowers the lift in the event of power loss



THE SAFE, EFFICIENT SOLUTION FOR RESTRICTED SPACES.



ENGINEERS SPECIFICATIONS



Hydraulic

The Lakhera is supplied with a one gallon per minute cast iron hydraulic pump with integral valving including a pressure relief valve, check valve, down solenoid valve and a pressure compensated flow control valve. Hydraulic actuators are of the displacement style, installed rod end down, and include an internal brass safety velocity fuse with stainless steel spring.

Easy to operate

Lakhera Scissor Lift easily controlled by Push operating remote.

3 phase motor 2hp to 7 hp power supply 480 volts.

Key switch on push button Lip: Aluminum, Split, Hydraulic, Spring Assist, Extended Length,

Multiple Low temperature oil immersion heater for oil reservoir 3 - 10 HP remote power packs.

Safety

Hydraulic pump with built-in overload relief.

Up-travel limit switch.

8" (203 mm) tapered toe guard protection - stationary models only .

Handrails with 4" (102 mm) thick plate and dual barrier chain across both ends.

Precision safety velocity fuses on hydraulic cylinders to prevent platform free-fall.

Mechanical flip-down maintenance stop on stationary models only.



ACCESSORIES



WHEEL GUIDES

Wheel guides installed in front of the loading bay increase the safety and efficiency of loading and unloading operations and improve the service life of dock shelters considerably. They are designed to minimize possible contact with the truck wheel rim. The wheel guides are available in 159 mm diameter tube with bends for fastening. They are bolted into place using concrete anchors or can be sunk into the floor. As the wheel guides are exposed to high dynamic load, the model with anchor bolt fastening shall be installed only on the concrete area.

GUARDS

Guards are installed indoors to prevent damage of walls by forklifts or pallets. They ensure correct and safe moving of vehicles in the storage room and near the dock. The guard is a round tube with diameter of 100–159 mm. It can have any shape and can be made in accordance with customer's requirements.



RUBBER BUMPERS

Rubber bumpers provide safe approach of trucks to the loading place and prevent damage to the building walls. They cushion a shock in case of incorrect parking. The bumpers are made of technical rubber, which increases their wear resistance and durability. The following models of bumpers are available:

- small bumper (300 x 250 x 100 mm);
- large bumper (500 x 250 x 100 mm);
- sliding bumper (500 x 250 x 100 mm);
- rubber bumper with steel plate (500 x 250 x 100 mm);
- steel bumper with damping insert (500 x 255 x 205);



Traffic lights



- Excellent visibility for the driver with bigger than standard, 210 mm diameter lenses
- Synchronisation possible between warehouse door and traffic light

Dock lights

- For illuminating the interior of the frequently dark trailers
- Swivelling arm for good positioning



Good reasons to try **Lakhera**

As India's leading manufacturer of doors, frames, operators and loading technology, we are committed to high product and service quality. This is how we set standards on an international scale.

Highly-specialised factories develop and produce construction components that are marked by excellent quality, functional safety and a long service life.

Simple and Sustainable Planning :



In-house product development

At Lakhera, innovation is produced in-house—highly qualified employees of the development department are in charge of product optimisation and new developments. This results in market-ready, high-quality products that are very popular around the globe.

Modern manufacturing

Lakhera high automation level ensures a consistently high quality level. All production processes are precisely calibrated and monitored by modern computer systems.

This way, large quantities of dock levellers, shelters and seals are manufactured, all with equal precision. However, we also manufacture smaller quantities or customised special solutions according to customer specifications at the same high quality level.



Efficient service

Our extensive service network means that we are always nearby and at your service around the clock. This is a major advantage in terms of inspections, maintenance and repairs.

Safety

Workplace safety is quite rightfully a very important issue. Accident and health risks as well as damage to goods, vehicles and building equipment must be avoided. Especially at loading bays, where your own employees and external staff work together, suitable measures must be considered carefully.



Competent advice

Experienced specialists within our customer-oriented sales organisation accompany you from the planning stage, through technical clarification up to the final building inspection. Complete working documentation, such as technical manuals, is not only available in printed form, but is always accessible and up-to-date at www.lakheraautomation.com



Lakhera offers a full line of dock levelers, dock safety equipment, seals and shelters, accessories, ergonomic and scissor lift equipment and industrial trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice.

Please contact Lakhera for latest information. Some features illustrated may be optional in certain market areas.

LOADING BAY EQUIPMENTS PRODUCTS BUILT FOR SAFETY, RELIABILITY AND STRENGTH



CORPORATE OFFICE

Lakhera Entrance Automation Pvt. Ltd.
Jagan Gate ,Leo Chowk ,
Circullar Road ,Rewari
Rewari Haryana (Pin 123401)
Tel : +91 1274-252003
: +91 9812751310
: +91 7056598310

E-mail : lakherasteel@gmail.com
sales@lakheraautomation.com
info@lakheraautomation.com

Web. : www.lakheraautomation.in

UNIT II

Lakhera Entrance Automation Pvt. Ltd.
Delhi Road Vill. Hasakha
Near RPS Public School
Rewari (123401)
Haryana

Social Contact



MORE INFORMATION PLEASE CONTACT :
WWW.LAKHERAAUTOMATION.IN

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