



LakheraTM

High-Speed-Doors

Quality Performance Reliability



Why Choose LAKHERA High Speed Doors?

Maximum Speed

Operates up to 7 times faster than conventional doors. Select models operate at speeds over 100 inches per second.

Maximum Safety

Integrated safety technology on every door and additional safety options are available for specific applications and environments.

Minimal Maintenance

Our doors are engineered for high use and low maintenance. Select models are designed with break-away or self-repair features if impacted.

Maximum Longevity

Industrial-strength construction and materials make Lakhera doors extremely durable for virtually uninterrupted operation. Built to last millions of operating cycles, day in day out.

EFFICIENT AND SAFE GOODS FLOW FOR COMMERCIAL ENVIRONMENTS

Lakhera doors offer our customers the highest value and day in, day out performance — and are supported by the knowledge and expertise of dedicated employees, authorized dealers and trained installers across India. With over 100,000 doors in operation — many with millions of operating cycles — our doors provide energy savings, safety and security and require only minimal maintenance.

Unlike other companies in our industry, doors aren't a side line for Lakhera. They are exclusively our focus. And we continue to expand our market leadership with over 24 years of experience producing high performance doors.

HOW TO CHOOSE THE OPTIMAL SOLUTION FOR YOUR BUILDING

Select:

1. The door type that meets your requirements
2. The frame material and colour
3. The curtain material, thickness, size, colour, and window options
 - Thickness and materials affect the door's thermal and sound insulation properties
 - Windows can improve safety and convenience
4. The type of operation mode (manual, semiautomatic or automatic). This will depend on the door size and usage frequency
5. The required safety options. Available options will vary depending on operation type
6. The required door enhancements



High Speed Doors

In high-throughput commercial environments, ensuring a reliable, smooth flow of goods is critical for competitive operations. Lakhera's range of eco-efficient high-speed internal and external doors is designed to improve goods flow and minimize energy costs in environments such as logistics centers, food processing and distribution facilities, and vehicle storage areas.

Our highly flexible solutions also help improve safety and convenience. They can be customized to match your building with a wide range of colors and materials, then complemented with your choice of optional features and accessories.

INCREASE EFFICIENCY AND CUT ENERGY COSTS

Lakhera high-speed door solutions improve the flow of goods throughout your building – internally between different areas and externally for reception and dispatch. Our durable exterior doors are designed to cope with heavy usage and demanding weather conditions, while their fast operation minimizes waiting time and helps lower energy costs by reducing the impact of pressure and temperature changes. Our range of internal door solutions also improves cleanliness and sound insulation, and includes special doors for clean and cold room applications.

KEY BENEFITS

- Improve efficiency with fast, reliable door solution
- Increase convenience and safety with automation
- Reduce energy costs with improved climate control and weather protection
- Reduce cross-ventilation and increase hygiene for internal operations
- Increase flexibility with special internal and external rolling and folding solutions
- Improve reliability with Lakhera's world-class preventive maintenance services





High Speed Door Specification

DOOR FRAME

The door frame is made from either stainless steel or galvanized steel with a polyester powder-coated finish, depending on the door solution you choose. Door frames are available in a wide range of RAL colors.

CURTAIN

Material

The high-density PVC fabric and the unique fiber structure ensure good ventilation, while steel or composite bars are used to provide exterior doors with wind resistance of upto 120 km/h (Class 4).

Colour

Curtains are available in the following RAL colours:



Yellow RAL 1021



Orange RAL 2004



Red RAL 3002



Blue RAL 5002



Grey RAL 7040

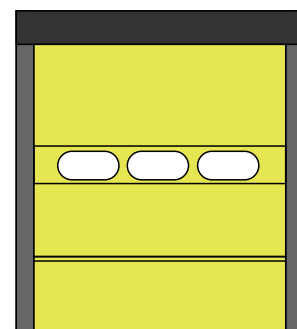
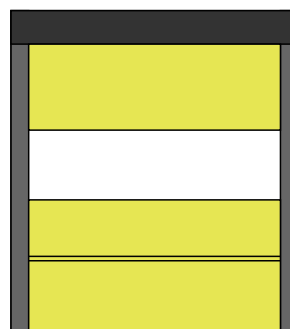


Green RAL 6016

The door curtain can also be printed with a company logo or slogan.

Height

The curtain height can be customized according to your requirements.



Windows

Folding doors are available with oblong windows; roll doors are available with oblong or full-vision windows.

Winding roll

Innovative design prevents bending and ensures long curtain lifetime.

Compact design

The elegant, narrow aluminium side elements only require a low side room of 145 mm. The door curtain is particularly well sealed thanks to the very small gap dimension and lip seals.

Easy to fit and service

The standard shaft cover is divided and can be easily opened in the lintel area even with limited space. The connection cables for the control are guided out Compact design of the frame via a variable output (top or side).

CONTROL SYSTEMS & UNIT

The most advanced and versatile control units for motors with mechanical limit stop or electronic limit switch, both automatic and deadman operation. In compliance with all European norms. Suitable for almost all industrial motors on the market phase with or without integrated inverter and three-p 2.2 kw maximum power. Easy programming and immediate diagnostics thanks 4-digit display integrated in cover.



NEW PLASTIC BOX, MORE PRACTICAL, WITH POSSIBILITY TO OPEN IT ON BOTH SIDES, RIGHT AND LEFT. THE IDEAL SOLUTION IN CONSTRAINED SPACES, LIKE SEVERAL DOORS INSTALLED CLOSE TO EACH OTHER, OR NEAR A SIDE WALL

CONTROL BOX



PRACTICAL OPERATION OF THE DOOR WITH UP - STOP - DOWN BUTTONS ON THE BOX COVER

Technical Specifications & Parameter

- Upper Framework :-** In zinc-plated steel or, on request, in stainless steel INOX304, for motor and rolling shaft protection in zinc plated steel.
- Guides :-** In aluminium extrude profile complete power coating they are equipped air tight rubber with nylon brushes all the structure of Modular door is self-bearing. It can be powder coating with any RAL colour.
- Curtain:-** Non tear flexible full curtain pvc coated in polyester 900gr/sqm complete with tubular metal retain forcement it is possible to manufacture curtain completely wide range of standard coloured one or personalized with our customer logo.
- Cross Bars :-** Modular Aluminium extrude profile section with powder coating.
- Rolling Shaft :-** In zinc-plating steel or in Aluminium requested at high traction resistance.
- Safety Device :-** In case of power failure : handle on the motor unit or, at customer request, chain pull attachment.
- Drive Unit :-** Motor installed directly on shaft consists of a self- breaking motorized reduction group IP 54 with rotating limit switch voltage 3- 400/50HZ, voltage 1- 230/HZ VAC with onboard frequency converter for speed control. Electronic limit switch .
- Control Unit :-** IP65 with microprocessor



Fold Up Doors

Lakhera door is a fold up door composed by perimeter self-supporting frame in galvanized steel and a PVC curtain reinforced with horizontal steel bars. The patented conical guides give to the doors a low air permeability. Fold up door is suitable for all kind of industries, for internal and external applications. It is designed for big openings and for a long life and its the right solution in case of strong wind and depressions.

Motor :

Industrial self - braking three - phases electric geared motor with easy settable rotating limit switch.

Flexible curtain :

Made of polyester fabric covered by PVC with high traction strength either in warp and weft. Horizontal reinforcement bars with reduced step for the maximum resistance to wind load.

Safety :

Safety edge of electro - Conductive rubber sensitive to pression on bottom of the curtain and single beam infrared photocells or light curtain with crossed beams.



Composed of a double curtain and a galvanized steel reticular structure, Fold Up Doors is safe, fast and able to withstand strong winds, guaranteeing the opening and closing of large spaces.

fold-up door is ideal for closing both large compartments on the ground and for overhead cranes.





High-performance Roll up doors

Some entrances simply demand more. Our innovative high-speed rolling doors are engineered to perform in locations where the operational demands are extreme. We manufacture products that provide durable, fast and efficient entrance solutions

Roll up door with a easy automation and a simple design to be used for all kinds of installations, where it's not required to have high and specific technology on the door or a strong wind resistance.

Perfect for internal installation this door will replace in time the need of strip doors and thanks to its galvanized steel self-supporting frame is ideal for each industrial application.

High speeds, low maintenance

Suited for a range of applications, the Lakhera Roll Up is the cost-efficient solution for busy areas that require tightly-sealed separation from outdoor conditions, or from other sections of a facility.

- . Opening speeds of up to 60" per second plus an option that boosts speed up to 100" per second.
- . Breakaway bottom beam automatically resets itself after impact, saving on energy and maintenance costs, while maintaining the flow of operations.

Keep workers safe

Smart design and reliable safety features help reduce lost-time accidents, and protect workers and equipment.

- . Wireless Safety System eliminates coil cords, and the high maintenance costs and lengthy down time associated with them.
- . Optional Safety Light Curtains provide a 6-foot high grid of infrared beams across the doorway. If that grid is interrupted, the door will automatically reverse to the open position.
- . Optional Egress Safety System is an easily accessible brake release that automatically raises the door in case of a power outage or other emergency.



TECHNICAL SPECIFICATION

Maximum door size (W x H)	6000 x 5000 mm	Wind Load	Class
Opening speed	-1.2 m/s	3000 x 3000 6000 x 5000	2 1
Closing speed	1.2 m/s	Applications	Inside and outside



ACCESSORIES

Lakhera are the India's stockist of genuine quality High Speed Door Components and Spare Parts and stock a comprehensive range of High Speed Door Spares including Control Panels, Sensors, Motors, Access Control, Safety Control and replacement parts.

PULL CORD

A long arm is placed inside the door. At the end of the arm there's a micro-switch with a cord descending towards the floor. Door opening is commanded by pulling the cord.



REMOTE CONTROLLER

A radio receiver is placed inside the control panel. One or more transmitters, with two or four channels, can be set open a single door or different doors.



MOTION SENSOR

A Motion Sensor detects any movements and opens the door. It's possible to set the sensitivity of the Sensor, the direction of the movement to detect and many other functions.



METAL DETECTOR

One or two loops placed inside the floor are connected to a metal detector that detects any metallic object then opens the door. it's possible to set many different functions.



LIGHT CURTAIN SENSOR

Light curtains are presence sensing devices that provide an infrared perimeter around perilous machinery or processes. A light curtain's main advantage is that it does not impose a physical barrier on personnel. As such, an operator is able to access guarded components without mechanical or observational limitations.



SWITCH & BUTTON

A Simple button to press placed near the door . Where pedestrian traffic is high its's very useful to install a push-button for pedestrian opening that doesn't open the door completely but only half - way.



Light Barrier

Safety Light barrier can also be used like an opening command. A Light barrier placed at a certain distance from the door make the door opening when excited.



FLASHING LIGHT

A Set of two light (green , red & yellow) regulates the traffic through the door. Green light turns on only when the door is completely opened. Other configurations are possible.



LAKHERA provide is a unidirectional microwave motion sensor optimizing the performance of automatic doors. Sensor detects every type of target and can filter people. Detecting vehicles only allows to reduce the door closing cycle by rejecting cross-traffic.



PERFORMANCE

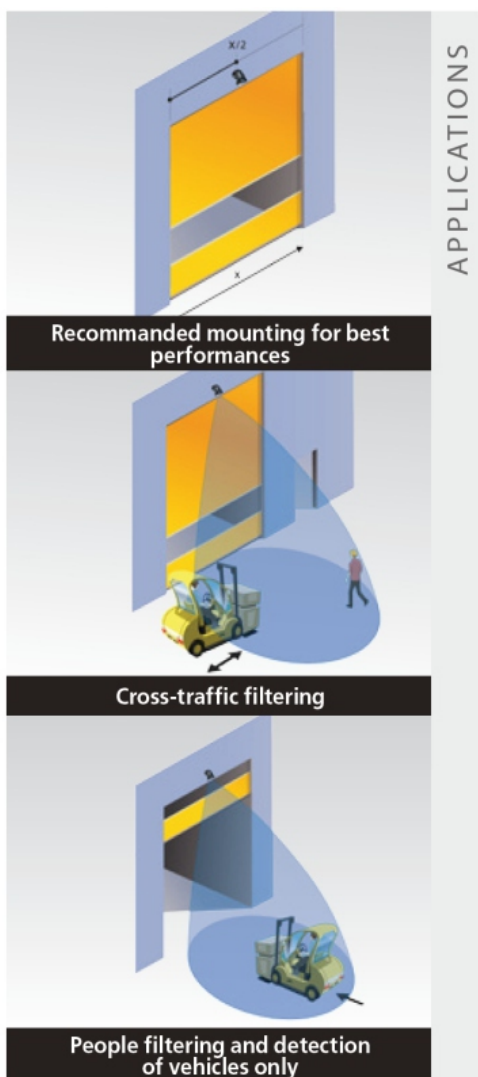
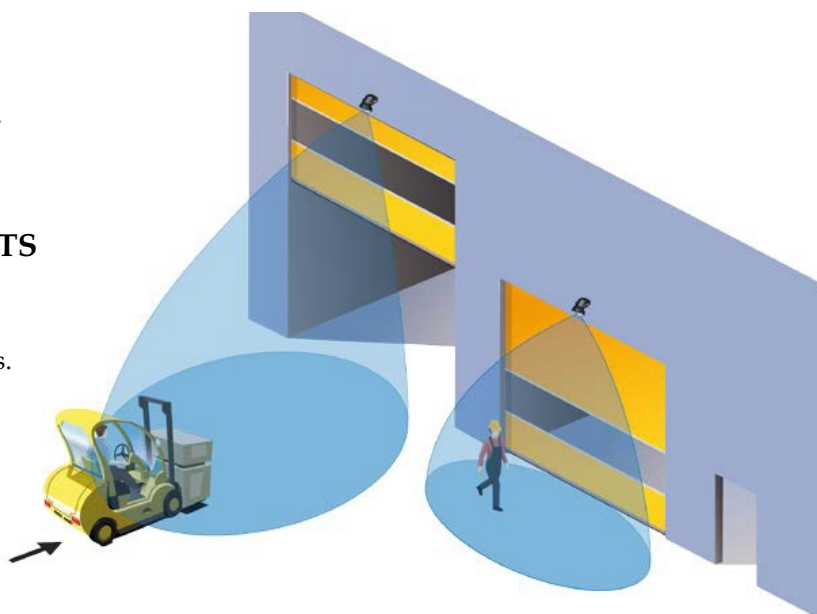
- Unidirectional motion detection for an optimum door closing cycle generating energy savings.
- Possibility of filtering people and detecting vehicles only.
- Possibility of filtering cross-traffic to eliminate unwanted detection.

EASY OF INSTALLATION

- Simple Installation (plug and play).
- Flexibility with remote control and push-buttons.

DESIGNED FOR INDUSTRIAL ENVIRONMENTS

- Rugged housing adapted to industrial applications.
- Degree of protection: IP65.
- Immunity against vibrations and environment interferences.



ADVANTAGES :

1. These door can be an excllent return on investment.
2. They do offer the best four side in the business.
3. Designed Specification for interior/ exterior applications.
4. Strong and robust, yet flexible and fast.
5. Spare Parts and accessories available.
6. Reduce costly energy consumption.
7. Partical Solutions
8. Long Service life & high efficiency as standard.
9. Quick return on investment.

APPLICATIONS :

The high-speed door application field is huge. Thanks to its flexibility, rapidity, reduced sizes reliability and easy maintenance, this door becomes really indispensable.

- | | | |
|----------------|------------------------------|-------------------------------------|
| - Supermarket | - Cold Storage/Freezer Rooms | - Textile Industries |
| - Food Market | - Hotels | - Automobile Industry |
| - Workshops | - Kitchens | - Pharmaceuticals Industry |
| - Cold rooms | - Airports | - Engineering |
| - Car Dealers | - Factory Stores | - Food Processing Ind. / Ice Cream. |
| - Laboratories | - Clean Rooms | |



SAFETY EDGE

Safety edge is safely device placed at the bottom of the flexible curtain that senses an obstruction and makes a proper signal for the control panel to reverse the door back to the open position.

Safety Edge is a electro-conductive rubber sensitive to pression on the bottom of the curtain and single beam infrared photo cells or light curtain with crossed beams.



Wireless Safety Edge

In door applications where speed is important and door movements are frequent, the spiral cable between the moving door and the controller is susceptible to wear and breakage.

By removing the cables the applications are less exposed to damage and a continuous and reliable operation is secured.

Wireless Safety System replaces the cable, thus reducing difficult and costly repairs, and expensive downtime is avoided. Battery lifetime is high and the optional use of 1 to 4 batteries makes it flexible and customizable to fit the user's servicing cycle.



The battery powered sub controller connects to the safety edge. The main controller connects to the door control panel. This affords a wireless link between the safety edge and the control panel that eliminates the need for a direct wire connection between the safety edge and the door controller.

Operating Controls

Manually Operated Controls

Push buttons are used predominantly for personnel traffic . Mounted on walls or columns in the vicinity of a door. In situations where the hands are always free push - buttons are a solution

Single Station Push Button

Plastic housing IP65



Three Station - Push Button

“Open / Emergency - stop / close “

Plastic housing IP 65.



The hand operated Pull Cord is used mainly for forklift truck traffic so the driver can operate the switch without getting out of the vehicle.

Pull Cord

Horizontal or vertical fitting possible , galvanised with chain control.



Induction Loops

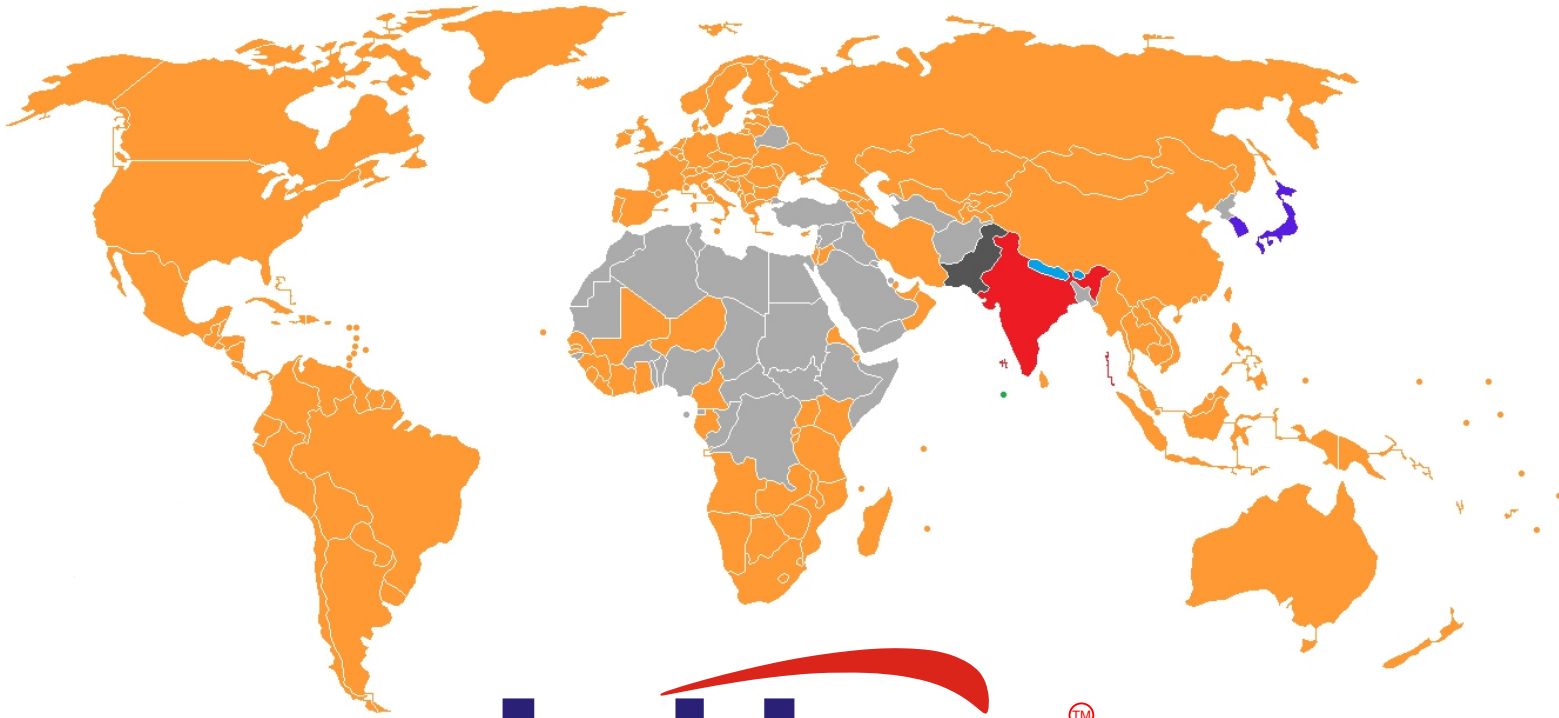
An Induction loop is laid in the floor and only reacts to metal objects.

Magnetic Loop Detector

An Induction loop causes a magnetic fields
Pedestrians are not detected by the induction loop but both moving and stationary vehicles are detected. For this reason, this can also be used as a safety device. As the loop is aligned continuously . interference through thermic influences dampness or long term changes in component data is entirely eliminated. This guarantees maximum operational reliability and security against malfunction.



One of India premier manufacturers of Entrance Automation and Loading Dock



Entrance Automation Pvt. Ltd.

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