SHIPYARD DOORS

GANDHI
Automations Pvt Ltd

Your Trusted Solution Partner For Premium Shipyard Doors

EUROPEAN COLLABORATION AND TECHNOLOGY WITH INNOVATIVE AND CREATIVE ENGINEERING FOR MORE THAN 30 YEARS

A PARTNER WHO STANDS BY YOUR SIDE

Quality & Safety - Our Priority

Shipyard Doors are CE certified, manufactured in accordance with

Standard(s) : EN 13241-1:2003+A2:2016, EN 60204-1:2006/AC:2010, IEC 61439-1:2011

Directive(s) : 2006/42/EC, 2014/35/EU

Gandhi Automations design, develop, manufacture and execute its products strictly in accordance with the above mentioned EN standards.

You are assured with our best quality products, safe operation and after sales service 24/7.

SAFETY AND QUALITY GO HAND IN HAND

ORIGINAL GUARANTEED SPARE PARTS

CRISIL An S&P Global Company Ratings

INDIAN GREEN BUILDING COUNCIL IGBC MEMBER

TÜV AUSTRIA CERTIFIED TÜV AUSTRIA GMBH
EN ISO 9001 20100233018576
EN ISO 14001 20104233018577
ISO 45001 20116233018578

CE

ORIGINAL SPARE PARTS

We guarantee original spare parts availability throughout the product lifecycle.

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Our Quality For Your Safety

Gandhi Automations Pvt Ltd is India's No. 1 Entrance Automation & Loading Bay Equipment Company. This widely recognized position has been achieved over years of hard work, innovation, commitment to quality and reliable customer service. Since our inception in 1996, we have been into designing, manufacturing, installing and exporting products that are easy to operate, low on maintenance, problem-free and safe to use. Our products are designed considering ergonomic aspect as per customer requirements and site conditions. Our products are built-in accordance with the relevant European Norms (EN) and are CE Certified.

Head Office

Headquartered in Mumbai; the commercial capital of India, the company has expanded its manufacturing capacity, operations, geographical reach and customer base globally. Our products are also marketed through our global distributor network in more than 70 countries.

Competent Advice

“Customer guidance and unparalleled service” is at the core of Gandhi Automations. Our experience and efficient team of consultants are at your disposal at every stage of the project: from project planning to commissioning and handing over. They help you choose a perfect solution tailored to meet your requirements.

Quality Management

Quality management and industry best practices are the backbone of our company. Thus, the company has acquired ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certifications from TÜV Austria. This has resulted in continuous improvement in our business processes of production, human resource management, equipment calibration, machinery maintenance and logistics. This philosophy has raised our bar in improving customer experience and satisfaction.

TÜV AUSTRIA
CERTIFIED
TÜV AUSTRIA GMBH

EN ISO 9001
20100233018576
EN ISO 14001
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ISO 45001
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Nationwide Network

- Ahmedabad
- Bengaluru
- Bhopal
- Bhubaneswar
- Chandigarh
- Chennai
- Coimbatore
- Goa
- Guwahati
- Hyderabad
- Indore
- Jaipur
- Jamshedpur
- Kochi
- Kolkata
- Lucknow
- Mangalore
- Nagpur
- New Delhi
- Patna
- Pune
- Raipur
- Ranchi
- Surat
- Vadodara
- Visakhapatnam

Advance Manufacturing

Our operations are supported by strategically located, state-of-the-art manufacturing and warehousing facility of 800,000 sq. ft. near Mumbai. This enables us to deliver best-in-class products with minimum lead time.

Our In-house Design and Development team is always at the forefront in innovation and creative engineering to exceed the expectations of customers by delivering technologically efficient, high quality and low maintenance products. All essential product components and control technology are designed and produced by Gandhi Automations with European collaboration and technology.

Our product engineering team uses the latest software combined with technologically advanced machinery to offer our customer a precisely engineered product.

Packaging

Special care and necessary precautions are taken while packaging our products for despatch to the installation sites. Each consignment is supervised by a team of experts who ensure that material is delivered efficiently and promptly.

Installation, Commissioning & Services

Our team of dedicated engineers and technicians are at your continuous service; most of them are trained at advanced training centers in Europe to ensure perfect installation according to the specifications and trouble-free commissioning, thus assuring product reliability and longevity.

Dynamic Customer Service

Our Customer Care team offers 24x7 service. We lay great emphasis on exceptional aftersales service and provide Spares, Preventive Maintenance and Annual Maintenance Contracts for minimum downtime ensuring durability and drive maximum ROI.

Our widespread service network assures response time to a minimum.

In rare case of any product failure, all you need to do is reach for the telephone.

TOLL FREE
1800 209 0200
From Anywhere in India

One call and one of our highly trained service technicians will be on its way in a fully equipped customer service van with wide range of original spares.

Excellence at Every Scale

Shipyard and port operations demand doors that go far beyond standard industrial solutions. Designed for extraordinary scale and extreme working environments, our Shipyard Doors deliver reliable performance for the largest openings in the most challenging coastal conditions.

From ultra-wide and ultra-tall door requirements to heavy-duty applications such as blasting bays, painting chambers, dry docks, and outfitting halls, our doors are engineered to meet the unique demands of shipbuilding. Exposure to intense sunlight, salt-laden air, strong winds, and continuous operation is built into the design from the start.

With complete flexibility in width and height, virtually any dimension can be achieved without compromise. We are uniquely positioned as the only company offering both Vertical Lifting Fabric Doors and Sliding Doors for shipyard applications, ensuring the right solution for every operational need.

Built for Ultra-Large Openings

Purpose-built for ultra-large clear spans, our shipyard doors are ideal for some of the biggest openings in the maritime industry. Their ingenious structural design allows smooth operation, stability, and long service life-regardless of size. Available in almost any dimension, they enable uninterrupted movement of vessels, modules, and heavy equipment.

Strong by Design

Robust construction combined with a streamlined operating mechanism ensures consistent, dependable operation in demanding shipbuilding environments. Every component is reinforced for continuous use, providing durability, reliability, and reduced maintenance - without unnecessary complexity.

Engineered to Withstand Marine Conditions

Coastal environments present extreme challenges from wind, rain, and corrosion. Our doors are engineered to withstand high coastal wind pressures and heavy rainfall while maintaining structural stability in demanding weather conditions. Corrosion-resistant and reinforced materials provide excellent protection against salt exposure, moisture, and the harsh marine atmosphere - ensuring reliable, long-term performance in maritime environments.

Safety at the Core

Shipyards are high-activity environments with constant movement of personnel, vehicles, heavy machinery, and materials. Our doors are designed with safety as a priority, incorporating controlled operation, stable guidance systems, and reliable structural integrity to protect both people and assets.

Vertical Lifting Fabric Doors

The Vertically Lifting Fabric Door operates on a simple vertical lifting principle, with the door moving upward along extruded aluminium guides while the fabric folds neatly into pleats and the intermediate beams stack compactly. This design eliminates the need for side clearance, bottom tracks or heavy foundations. The door is manufactured in full compliance with the product standard and performance requirements of EN 13241-1, ensuring reliable and safe operation.

Door Leaf Construction

The door leaf is constructed from two layers of very high-strength PVC-coated polyester fabric, engineered to deliver exceptional durability, flexibility and resistance to demanding marine and shipyard environments. The double-layer configuration enhances structural stability, weather resistance and long-term operational performance across large spans.

Intermediate Beams

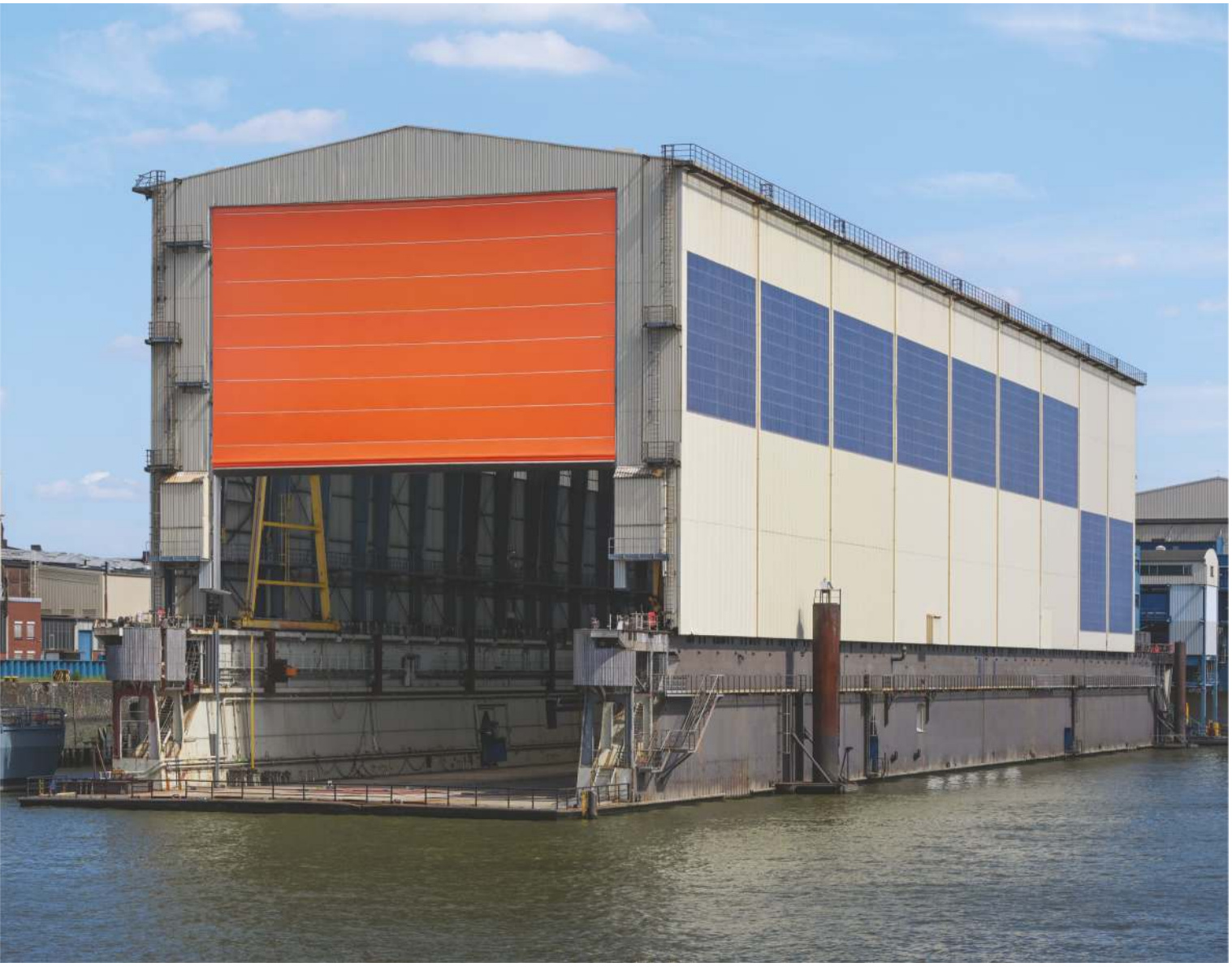
The intermediate beams are made from extruded aluminium, providing excellent corrosion resistance and structural strength. Each beam is engineered to withstand heavy wind loads. Self-lubricating nylon guide blocks or rollers at each end ensure smooth vertical travel and precise alignment during operation.

Side Guide

The vertical side guides are integral structural components of the door assembly and are constructed from extruded aluminium. They provide effective weather sealing on both the internal and external faces of the opening. In addition, the guides are designed to safely transfer wind loads and safety arrestor forces to the primary jamb steel support structure, ensuring stability even under maximum wind conditions.

Lifting Mechanism

The door operates using a single belt or rope drive system, selected according to the specific door design. This arrangement ensures efficient transmission of motive force with minimal mechanical complexity.



Safety Arrester

The load arrester is a safety device that activates at the end of each opening and closing cycle. Each door leaf is fitted with two safety arrestors that stop and support the door if the belt or rope fails. All safety arrestors are tested and certified by TÜV to meet the required standards for the door's weight.

Slack Cable / Belt Breaker

The slack cable breaker is a safety device fitted to all door leaf belts, constantly monitoring belt or rope tension. If a belt becomes loose or slack, which could indicate wear, breakage or misalignment, the device immediately cuts power to the drive unit. This stops the door, preventing unsafe or unpredictable movement and avoiding potential accidents or damage to the mechanism.

Bottom Beam

The bottom beam is fabricated from steel and undergoes sandblasting, followed by a C5M marine-grade coating to enhance corrosion resistance. It is fitted with EPDM rubber seal to ensure a tight floor seal, even on uneven surfaces. The beam remains stable when the door is open and prevents the door from lifting under strong wind loads.

Wind Locks

Wind locks are safety devices fitted to each door leaf that automatically engage when the door is fully closed. They lock the bottom beam in place, keeping the door stable, maintaining a tight seal with the floor, and preventing movement or lifting even in strong winds.

Electrical Operation

All control panels, motors and wiring are CE certified in accordance with the European Machinery Directive 2006/42/EC and type tested to EN 13241-1. The door stops automatically at the primary top limit switch when fully opened, while a secondary limit switch prevents over-travel and protects the drive unit from damage. The uppermost intermediate beam activates both limit switches. When closing, the slack belt or cable breakers stop the door if a belt or cable fails or if an obstruction prevents closure.

Specialised Application - Craneway Door System for Shipyards

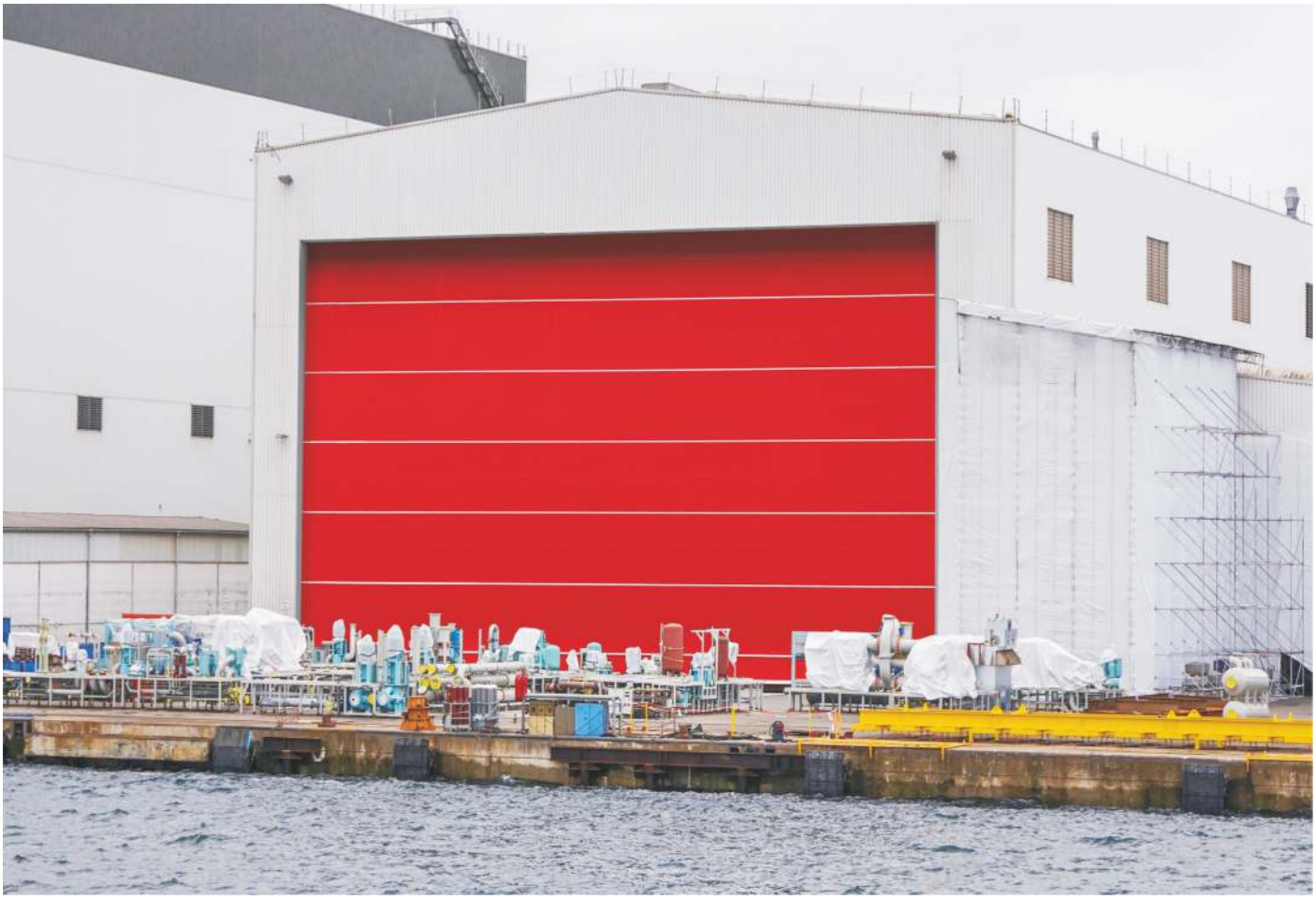
For shipyard facilities operating overhead cranes, the Vertical Lifting Fabric Door can be integrated with a specialised Craneway Door system. This revolutionary T-type crane door configuration incorporates a central section that operates independently to facilitate vehicle access, while allowing uninterrupted movement of overhead cranes and suspended loads.

The craneway door is top-hinged at the header and swings upward and inward, enabling the crane to pass beneath it safely and efficiently. A key feature of the system is its ability to provide a precise custom fit around the crane rail, ensuring seamless integration with the building structure. The door is constructed from structural steel sections and cold-formed steel girts, delivering strength and durability suitable for demanding shipyard environments.

Heavy-duty cables and dual drive operator chains enhance operational safety when lifting the upper door section. An automatic magnetic brake securely holds the door in the open position, while automatic latching lock arms stabilise the system when closed. The door panels are carefully notched around the crane rails and fitted with adjustable seals to maintain effective weather sealing against the building envelope.

Whether the requirement is standard or highly specialised, our technical sales team, experienced designers and certified installation professionals ensure complete quality control from concept and engineering through to final installation.

Colours & Finishes



Standard - Translucent

WHITE
similar to RAL 9003

Optional

BLUE
similar to RAL 5002

YELLOW
similar to RAL 1018

GREY
similar to RAL 7035

RED
similar to RAL 3002

ORANGE
similar to RAL 2004

Black
similar to RAL 9005

Sliding Doors

Sliding Doors are a conventional and highly trusted entrance automation solution for large access requirements, particularly in shipyards and heavy industrial environments.

These sliding doors operate on a bottom-rolling principle. The robust metallic construction delivers high structural strength and security, enabling the doors to withstand extreme environmental conditions, abrasion, and higher wind loads. The bottom-rolling mechanism ensures efficient transfer of the entire door load directly to the ground.

Depending on site layout and available side space for parking the door leaves, Sliding Doors can be configured as unidirectional, bidirectional, or multidirectional systems. The doors can also be designed for independent leaf operation or in a telescopic arrangement.

Sliding Doors are factory-fabricated and supplied for on-site assembly. Factory fabrication significantly reduces on-site resource requirements, ensures precise tolerances, and enhances the overall durability of the door structure. The modular design minimises downtime during assembly and installation

Structural Design

Our Shipyard Sliding Doors are structurally engineered in accordance with internationally recognised standards such as AISC and ASCE. The system is designed to withstand high wind loads, operational forces, and structural movements common in coastal and heavy industrial environments. The engineering ensures controlled deflection performance, structural stability, and long-term reliability across large-span openings.

Door Leaf Construction

The main structural members of each door leaf are fabricated from high-grade structural steel sections, including hollow tubular profiles or hot-rolled universal beams. Section sizes are selected based on span, wind load, and allowable deflection requirements. Structural bracing is integrated to enhance rigidity and maintain geometric stability under operational and environmental stresses.

Configurations

Sliding Doors can be configured as unidirectional, bidirectional, or multidirectional, including telescopic configurations to suit operational and space requirements.

Marine-Grade Protective Coating

All MS structural members undergo sand blasting, followed by C5M coating in accordance with ISO 12944. It is classified as “HIGH” durability as per EN ISO 12944-1:2017. This high-performance coating ensures long-term resistance against salt-laden air, moisture, and harsh environmental exposure.

Pedestrian & Truck Access Door

The sliding door can be equipped with integrated access doors, including a personnel (wicket) door for convenient entry and exit without operating the full door, and a dedicated truck access door for frequent vehicle movement. Both options are equipped with safety interlocks and sensors to prevent the main door leaf from operating when the access door is open, ensuring safe, controlled, and uninterrupted operations.

Sliding Doors

Door Cladding

A range of cladding options is available to meet functional and environmental requirements:

- PUF Insulated Cladding - Provides superior thermal insulation, structural strength, and energy efficiency, ideal for extreme temperature conditions.
- Corrugated Sheet Cladding - A robust and economical solution offering high wind-load resistance, well-suited for industrial and coastal environments.
- Polycarbonate Cladding - Enables natural daylight integration with a lightweight, impact-resistant design that enhances visibility and reduces reliance on artificial lighting.

Each option is engineered to deliver the optimal balance of strength, durability, and performance. Vision panels can also be incorporated to improve visibility without compromising structural integrity.

Weather Sealing System

The weather sealing system is integrated with the cladding to minimise sand, dust and water ingress. Horizontal seals accommodate structural deflections while maintaining effective sealing performance. Twin tapered EPDM wiper seals housed in aluminium extrusions provide durable side sealing, while heavy-duty nylon brush seals at the bottom ensure continuous ground-level protection.

Bottom Track & Wheel System

The galvanised steel bottom tracks control the exact movement of the door leaves. The loads, from wind and the door leaf weight, are transmitted directly into the bottom track foundations. Heavy-duty steel wheels with high-capacity bearings provide reliable and controlled operation. Any incidental rainwater is discharged from the bottom tracks into connected drainage.

Top Track & Roller Assembly

The hot-formed steel top tracks are engineered to accommodate permanent and variable loads while maintaining structural alignment and effective sealing. The track and roller profiles are co-ordinated so that the rollers support their own dead weight during travel along the track without undue friction. The rollers ensure smooth movement, wind load resistance, and operational stability, minimising inclination and maintaining consistent engagement under demanding conditions.

Door operations

All door leaves are capable of independent operation through simple push-button controls. In the event of a power failure, a quick-release disengagement mechanism allows the door to be operated manually using a towing pin arrangement, enabling movement by powered vehicles such as forklifts or towing vans.

Safety & Warning Devices

Comprehensive safety features are integrated throughout the system, including anti-collision sensors, visual and audible pre-movement warnings, advanced electrical safety edges, interlocked access panels, and heavy-duty buffer stops that prevent the door leaves from overrunning during towing or manual operation.

Electrical Drive System

Each door leaf is independently motorised using high-efficiency industrial-grade drive units equipped with integrated braking systems and precision gearboxes. The motors are designed for continuous-duty industrial applications, delivering smooth acceleration, controlled deceleration, and reliable long-term performance.

Power Supply System

Power is transmitted through an overhead enclosed conductor bar system designed to ensure continuous and reliable energy transfer to moving door leaves. Compared to conventional systems, conductor bars offer reduced cable wear, lower maintenance requirements, improved operational safety, and smoother power transmission without cable entanglement or sagging.

STAR EXPORT HOUSE
(Government of India Recognised)

EN ISO 9001
20100233018576
EN ISO 14001
20104233018577
ISO 45001
20116233018578

Gandhi Automations operates a policy of continuous development and reserves the right to make technical modifications / replacements without prior notice.

GANDHI
Automations Pvt Ltd

Your Trusted Solution Partner For Premium Shipyard Doors

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