Become a Leading Intelligent Entrance Solutions Provider of the World

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SOLUTION OF COLD CHAIN LOADING & UNLOADING SYSTEM

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About fastlink

Shanghai Fastlink Door Co., Limited, a national high-tech enterprise titled "Shanghai Famous Brand" , is an access intelligence solution provider and manufacturer of industrial doors and handling equipment. We independently develop and manufacture products including Insulated sectional doors, single panel sectional doors, PVC high speed doors, cold storage high speed doors, dock levelers, dock shelters and have a number of technology patents and European CE certification.

Since its establishment in 2004, Fastlink has already become a strong brand in the industry and won trust and recognition of customers in many industries and fields with excellent product quality and perfect service support. It maintains good partnership with well-known enterprises such as GLP, Vanke, ESR, Goodman, Mapletree, Yupei, Ping An Real Estate, SinoTrans, Shenzhen International , JD, Cainiao, Suning, Hema, GFS,Bosch, Benz, BMW, Bayer, BASF, P&G, L'Oreal and RT Mart.

In 2010, Fastlink built a modern factory of 20,000 square meters in Jiading, Shanghai, and introduced German technology and production lines, which laid a solid foundation for the company to become a leading industrial equipment manufacturer in China.

At present, Fastlink has established a sales network and after-sales service system in more than 20 cities nationwide. Meanwhile, we have fully introduced ERP and CRM systems, and realized the "information system + cloud platform" by the technology of the Internet of Things, so as to comprehensively improve order fulfillment and service quality.

With the international management mechanism, the design and development teams with "innovation as the first competitiveness" , and the service network integrating marketing, installation and after-sales service, Fastlink is steadily growing into a leading intelligent entrance solutions provider of the world.

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FASTLINK

REASONABLE PLANNING

MAKE COLD-STORAGE MORE ENERGY-SAVING, SAFE & EFFICIENT

Reducing Energy Consumption

During the operation of the cold-storage project, the potential energy loss may occur in every corner. On the dock leveler, the ordinary dock leveler is located under the insulated sectional door. The gap between the dock leveler and the foundation pit, the bottom of the dock leveler exposed to the outdoor, and the sealing problems between the refrigerated truck and the cold-storage during handling, etc. will lead to leakage of energy and then directly lead to an increase in costs. Inefficient ordinary cold-storage door is the main source of energy loss.

· Cooling off and energy saving are your primary considerations in the planning, design, construction and renovation of the cold-storage.

Environmental Control

In view of the particularity of the goods stored in the cold-storage, the invalid dock leveler seal is a very big problem for the cold-storage, not only causing energy loss, but also product damage, pollution, a decreasing level of food safety and employee comfort due to air convection and temperature changes.

· Solving the sealing problem of vehicles of different dimensions during cargo handling is also a key consideration in your planning.

Security

In the process of cargo loading and unloading, it is very important to ensure the safety of operators, goods, warehouse equipment and vehicles. In the busy handling area, internal and external personnel are mixed, Insulation and sealing performance of the cold-storage are not good, and there is a large amount of water vapor condensation, resulting in slippery ground and dock leveler, as well as higher accident risks. After entering the cold-storage, there is also ice on the ground, and vehicles and personnel are more likely to be in danger.

· It is very important to ensure the safety of cold-storage operation by reasonable design, product selection and standard operation.

Efficient Operation

In order to reduce energy consumption of the cold-storage, it is required to automatically open and close the door every time the cold-storage is accessed, but the efficiency of the ordinary cold-storage door with slow opening and slow closing is very low, and the truck driver needs to stop and wait for the door to open, which affects the production efficiency. Besides, frequent failures may occur after a long period of use, and it is hard to be repaired in the case of accidental impact, which will directly affect the normal use of the cold-storage door, resulting in inefficiency.

· It is imminent to choose suitable high-speed, impact-resistant, low fault rate, durable cold-storage doors.

CHOSING RIGHT PRODUCTS

Solutions for Cold-storage

HSS-DEY Cold Storage High Speed Sliding Door

Suitable for the kind of cold-storage which opens and closes frequently and has requirements for quick opening/-closing and high thermal insulation. It can simultaneously satisfy the needs for quick opening/closing and heat Insulation, which is an ideal replacement of the ordinary cold-storage door.

HSR-IPP Cold Storage High Speed Rolling Shutter Door

Outstanding thermal Insulation and sealing performance used in low-temperature environments, our product excels in preserving energy and offers exceptional Insulation, fog resistance, and prevents condensation when exposed to cold air.

HSR-IPM High Speed Insulated Rolling Shutter Door

Fast automatic opening can effectively reduce air convection during handling and reduce energy consumption in places people come and go frequently. Suitable for refrigerated environments above 0°C, providing thermal Insulation and energy efficiency.

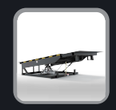
Solutions for Unloading Bay

SSD-CAV Insulated Sectional Door for Cold Storage

Special structural design to prevent thermal conduction; high-density polyurethane to achieve high-efficiency thermal Insulation; Heating window to ensure condensation and ensure a clear view.

DLS-SHK / DLS-SHI Hydraulic Dock Leveler

Perfect sealing during handling; no matter what kind of trucks or buildings, there is always one that suits your needs.



DLT-THK Telescopic Dock Leveler

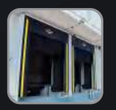
The 1,000mm(3'3")-long clapper can be telescopically adjusted in a flexible way, and is better overlapped with the bottom plate of the vehicle, which effectively improve the leakproofness between the cold-storage and the outside world, thus achieving better Insulation and preventing cold air leakage.

DSM-ST500 Mechanical Dock Shelter

Suitable for areas with low sealing requirements and different handling truck dimensions.

DSS-SS250 Sponge Dock Seal

It has a good sealing performance, which is suitable for same or similar types of handling trucks.



IDS-SI950 Inflatable Dock Shelter

With good sealing performance suitable for a variety of models, it is the best choice for cold-storage unloading area.

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COMMON HAZARDS OF ORDINARY COLD-STORAGE DOORS

- The cost of inefficient ordinary cold-storage door is much higher than people think.
- Slow-speed opening/closing directly affects the operation efficiency of the cold-storage, and causes huge energy loss every time the door is opened.
- Defrosting and deicing the cold-storage also costs a lot of time and labor.

Ordinary cold-storage doors tend to open and close slowly, and can not be used frequently. The door is basically open when goods enter and exit the cold-storage, and the temperature changes when hot air from outside enters the cold-storage. Continuous running of the refrigeration equipment will increase the electricity cost.

Due to long-time opening of cold storage doors, the hot air outside gets into the warehouse and destroys the cold-storage environment, resulting in uneven temperature in the warehouse, and temperature changes will affect the quality of stored products, especially temperature-sensitive food.

The ordinary cold-storage door is easy to be hit or bumped by forklift during cargo handling. Once the rigid insulated door panel is bumped, it is easy to be irreparably deformed, resulting in air leakage, high maintenance cost, difficult replacement and big energy loss during repair.

If the door of the cold-storage is opened for a long time, the air leakage from the cold-storage will reduce the ground humidity and cause the condensation of water vapor, which will be brought into the cold-storage by vehicles or personnel and become ice, thus causing safety hazards.

If the door of the cold-storage is opened for a long time, the hot air outside enters the storage, and the water vapour can damage the refrigeration equipment easily. At the same time, water vapor condenses on the evaporator and the condensation pipeline, resulting in icing, reducing the refrigeration efficiency and increasing the energy consumption.

If the door of the cold-storage is opened for a long time, the hot air outside enters the cold-storage and causes ice on the roof of the cold-storage and the surface of refrigeration equipment. It takes a lot of time and labor to clear the ice.

FASTLINK TRANSLATIONAL COLD-STORAGE HIGH SPEED DOOR'S NEW EXPERIENCES

Increasing Work Efficiency

The opening speed is as high as 2.5 m/s, which is more than four times of that of ordinary cold-storage doors. It greatly improves the efficiency of cold-storage logistics, reduces the operation cost and enhances the competitiveness of the enterprise.

Saving Electricity & Reducing Operation Cost

The high-speed operation of the cold-storage door can save the energy loss caused by air convection, reduce the refrigeration power consumption, and save energy costs of nearly RMB70,000 per door per year for users.

Suitable for Frequent Use

It has a design life up to 2 million times, suitable for high-frequency daily use, with a long service life and low after-sales costs.

High Thermal Insulation

The third-generation waterproof insulating core, with a thickness of 100 mm, offers more than four times the inlulation performance of standard door curtains. A single door is sufficient for -25℃ cold storage, providing inlulation, preventing heat loss, and saving energy.

Maintenance-free

Maintenance-free: The flexible door panel automatically resets upon impact, which avoids downtime for repairs.

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ENERGY-SAVING CALCULATION

Take the door rebuilding project of a cold-storage with the ammonia refrigeration system as an example >>>

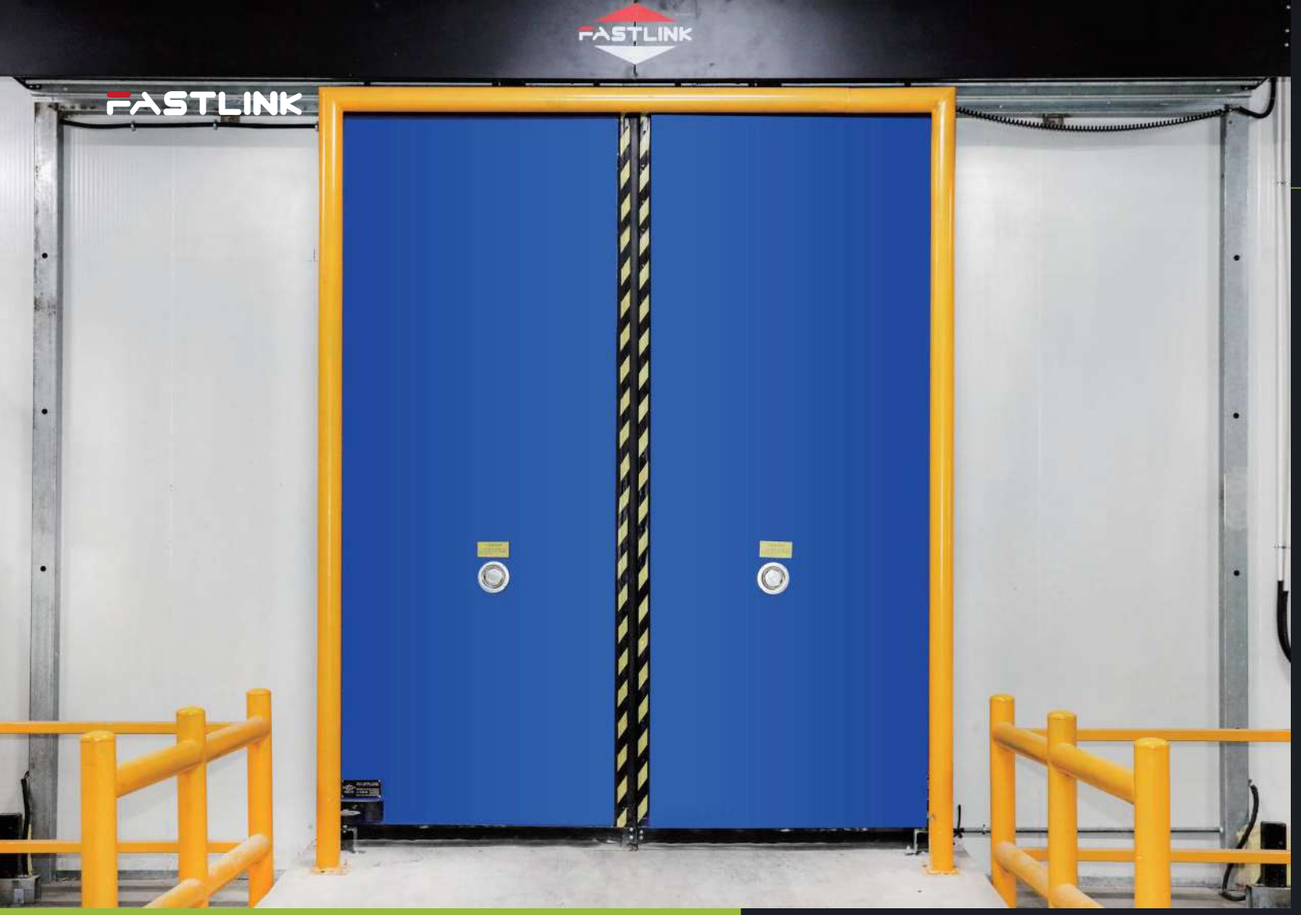
The temperature inside the cold-storage is -18℃. The temperature outside the cold-storage is 10℃. The relative humidity inside and outside the cold-storage is 26% and 60% respectively. The door of the cold-storage is opened and closed 15 times an hour, working 24 hours a day and 365 days a year; An ordinary stainless steel sliding door is used before the rebuilding. The door was impacted, the sealing performance was very poor, and it was suffering from serious frost damage. The anti-freezing heating system worked continuously for 24 hours. After the rebuilding, the high-speed cold-storage sliding door is used. Let's compare the energy loss before and after the modification:

	Ordinary Stainless Steel Translational Door (before Rebuilding)	Translational Cold-Storage High Speed Door (after Rebuilding)
Cold-storage Door Dimensions (mm)	W3000mm * H3000mm (9′10″W * 9′10″H)	W3000mm * H3000mm (9′10″W * 9′10″H)
Thermal Resistance of Door Panel	10	17
Opening/Closing Speed (m/S)	0.53m/s	2.0m/s
Delay Closing Time of Single Opening Time (S)	20	4
Total Single Opening Time (S)	31	7
Percentage of Opening Hours (%)	13.02%	2.9%
Annual Cooling Power Consumption (KWh/y) * Due To Air Convection	69116.22	15378.98
Annual Cooling Power Consumption (KWh/y) * Due To Conduction	392	231
Annual Cooling Power Consumption (KWh/y) * Due To Penetration	12916.26	0
Annual Cooling Power Consumption (KWh/y) * Due To Electric Heating System	1310.40	393.12
Total Annual Cooling Power Consumption (KWh/y)	83734.75	16001.61

The test data show that the rebuilding of a cold-storage door can **save the power consumption of 67,733.14 degrees per year**, a decrease of 80%. The energy loss caused by air convection accounts for 82.5% of the annual energy consumption, the largest proportion, and reducing the energy consumption of this part is the most effective way. Therefore, it is the best solution to increase the opening and closing speed of the door and reduce the opening time.

MORE PRODUCT DETAILS FOR HUMID ENVIRONMENT OF COLD-STORAGE

HSS-DEY COLD STORAGE HIGH SPEED SLIDING DOOR
FULL DIGITAL CONTROL, HIGH SPEED START, SAFE SEALING

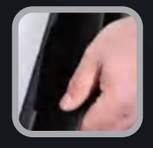


HSS-DEY COLD STORAGE HIGH SPEED SLIDING DOOR

High-Speed, Thermal Insulation, Maintenance-Free

High Speed Start

The opening/closing speed of up to 2.5m/s accelerates the logistics speed, improves the working efficiency and reduces energy consumption.



Safety Seal

The bottom of the door is equipped with multi-layer adjustable PVC sealing strips, which can be easily adjusted and replaced and ensure complete water and air tightness around the door. Even in extremely cold environments, they effectively block heat transfer and prevent cold leakage.

Thermal-insulation Door Body

The third-generation waterproof insulating core, with a thickness of 100 mm, provides a door panel heat transfer coefficient of K = 0.6 W(m2·K) and offers more than four times the Insulation performance of standard door curtains.

- The opening speed can reach 2.5m/s, which greatly reduces the opening time and the convection of hot and cold air compared with other cold storage doors, realizes minimum energy loss and effectively improves work efficiency.
- The flexible door panel design can resist the impact of strong external force and realize automatic reset afterwards. It is maintenance-free and durable.
- The unique sealing device between the door panel and the opening and the adjustable sealing design at the bottom of the door can ensure high sealing performance surrounding the door body and satisfy the strict cold storage application environment.
- Typical application industries: food, medicine, cold storage, etc., with the single door used for low-temperature cold storage.

COMPREHENSIVELY SOLVE THE PROBLEM OF HEAT PRESERVATION AND SEALING OF COLD STORAGE DOORS

>>> TECHNICAL PARAMETERS

Optional Requirements	Specifications
Door dimensions (single-leaf)	Min. 1,300 mm x 2,000 mm (4'3" x 6'7") (W x H)
	Max. 2,800 mm x 4,600 mm (9'2" x 15'1") (W x H)
Door dimensions (double-leaf)	Min. 1,800 mm x 2,000 mm (5'11" x 6'7") (W x H)
	Max. 4,000 mm x 4,600 mm (13'1" x 15'1") (W x H)
Opening speed	Max. 2.5 m/s
Door panel thickness	100 mm (3.9")
Door panel material	Double-layer high-tensile-strength curtain with internal Insulation filling
Thermal conductivity (K-value)	0.6W(m².K)
Door panel type	Single door/Double door
Door curtain color	Blue
Door frame structure	Optional
Air curtain	Optional
Heating wires	Optional
Door opening options	Remote control/Three control buttons/Geomagnetic sensor/Radar/Pull cord switch/Device interconnection
Service life	More than 2 million cycles
Operating environment	Cold storage (temperature ≥ -25℃)

Frost and Penetration Prevention

- A self-regulating maintenance-free heating device is available, with a maximum temperature of 65℃.
- Dual-channel temperature control system offers triple safety protection.

Anti-collision

• The door panel adopts flexible materials with no metal components, providing excellent resilience and impact resistance.

Full Digital Control

- Self-developed "Eye of Technology" control system .
- IP65 protection rating .
- Integrated wiring harness design .
- Rich in interfaces.

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HSR-IPP COLD STORAGE HIGH SPEED ROLLING SHUTTER DOOR

THERMAL INSULATION SAFE & EFFICIENT

- Newly developed HSR-IPP cold storage high-speed rapid roll door, the maximum opening and closing speed of the hsr-ipp cold storage high-speed rapid roll door can reach up to 2.0m/s, making it suitable for cold storage passageways with temperatures above -25℃ that require frequent access.
- The door body features an elastic thermal insulation curtain design, providing excellent thermal inlulation and sealing performance. When used in low-temperature environments, it effectively reduces energy loss, offers Insulation, fog resistance, and prevents condensation when cold air meets warm air.
- Innovative soft bottom edge with anti-collision and self-resetting function, which helps prevent safety accidents and significantly reduces accidental collisions that could damage the curtain, thus lowering maintenance costs.
- Typical application industries: cold chain logistics, food central kitchen, pharmaceutical and other refrigeration and refrigeration entrances.

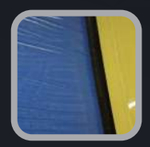
>>> TECHNICAL PARAMETERS

Optional Requirements	Specifications
Door dimensions	Min. 1,200 mm x 2,000 mm (3'11" x 6'7") (W x H)
	Max. 3,000 mm x 4,600 mm (9'10" x 15'1") (W x H)
Opening speed	Max. 2.0 m/s
Door curtain thickness	28 mm
Door curtain material	Double-layer high-tensile-strength curtain with internal Insulation filling
Thermal conductivity (K-value)	1.2 W (m².K)
Curtain type	Entire curtain
Door curtain color	Blue
Combined door frame	Optional
Track color	RAL 7015 (Slate Grey)/Stainless steel/Customized
Door frame structure	Optional
Air curtain	Optional
Heating wires	Optional
Door opening options	Remote control/Three control buttons/Geomagnetic sensor/Radar/Pull cord switch/Device interconnection
Wind resistance level	Max. 225 Pa
Service life	More than 2 million cycles

MORE DETAILS

German Imported Electrical Control System

The HSR-IPP Cold Storage High-Speed Rapid Roll Door offers an optional German-imported electrical control system. With a maximum opening speed of up to 2.0 m/s, it minimizes the exchange of hot and cold air, saving refrigeration energy while ensuring high efficiency and stability.



Elastic Thermal Insulated Door Curtain

Fastlink's latest development includes an elastic thermal insulated door curtain with a uniform curtain thickness (28mm(1.1")). Not only does it resist accidental collisions, but it also provides excellent thermal Insulation, preventing energy loss.

Outstanding Sealing Performance

The door curtain's front, rear, and top sections feature multiple sealing measures and a specially designed spherical sealing structure. Imported self-limiting temperature heating wires are incorporated into the spherical sealing to prevent icing and frost on the door curtain and tracks, making it suitable for freezer environments.

Multiple Safety Protection Measures

It includes an emergency manual door-opening system to ensure temporary access during emergencies. The elastic soft bottom edge design prevents accidental damage caused by the door's movement. The heating wire temperature control warning system continuously monitors the heating wire's status.

Smart Control

Equipped with the state-of-the-art "Eye of the Future" control box, it exudes a futuristic and high-quality feel. It enables precise positioning of the door, monitoring of operational status, temperature control adjustments, fault alerts, and comprehensive control functions.

High Efficiency and Energy Savings

Rapid operation and exceptional thermal Insulation and sealing performance help cold storage facilities save on refrigeration electricity costs, reducing energy consumption and emissions. It can save users nearly 100,000 RMB in electricity bills annually.

HSR-IPM HIGH SPEED INSULATED ROLLING SHUTTER DOOR

- HSR-IPM high speed insulated rolling shutter door is designed with the insulated curtain, which has certain Insulation function. It can be used in a low-temperature environment to reduce energy loss, preserve heat, prevent fog and reduce air condensation when the air cools.
- The innovative soft bottom edge design with anti-collision reset function can avoid accidents, which greatly reduces the door curtain damage caused by accidental collision, and reduces the maintenance cost.
- It is used in combination with ordinary translational cold-storage doors in low temperature environment requiring frequent and quick opening.
- Typical application industries: food, medicine, cold storage, etc.

>>> TECHNICAL PARAMETERS

Optional Requirements	Specifications
Door dimensions	Min. 1,500 mm x 2,000 mm (4'11" x 6'7") (W x H)
	Max. 5,000 mm x 5,000 mm (13'5" x 13'5") (W x H)
Opening speed	1.5m/s
Door curtain thickness	10-12mm
Door curtain material	1.2 mm double-layer PVC curtain with aluminum foil Insulation filling
Window	1.5 mm, PVC
Curtain type	Entire curtain
Motor cover	Standard
Winding shaft cover	Optional
Door curtain color	Blue/Yellow/Orange/Grey
Track color	RAL 9002 (Grey White)/RAL 7015 (Slate Grey)/Stainless steel/Customized
Installation position	Interior/Exterior
Door opening options	Remote control/Three control buttons/Geomagnetic sensor/Radar/Pull cord switch/Device interconnection
Service life	More than 1 million cycles
Wind resistance level	Max. 350 Pa

THERMAL INSULATION
SAFE & EFFICIENT

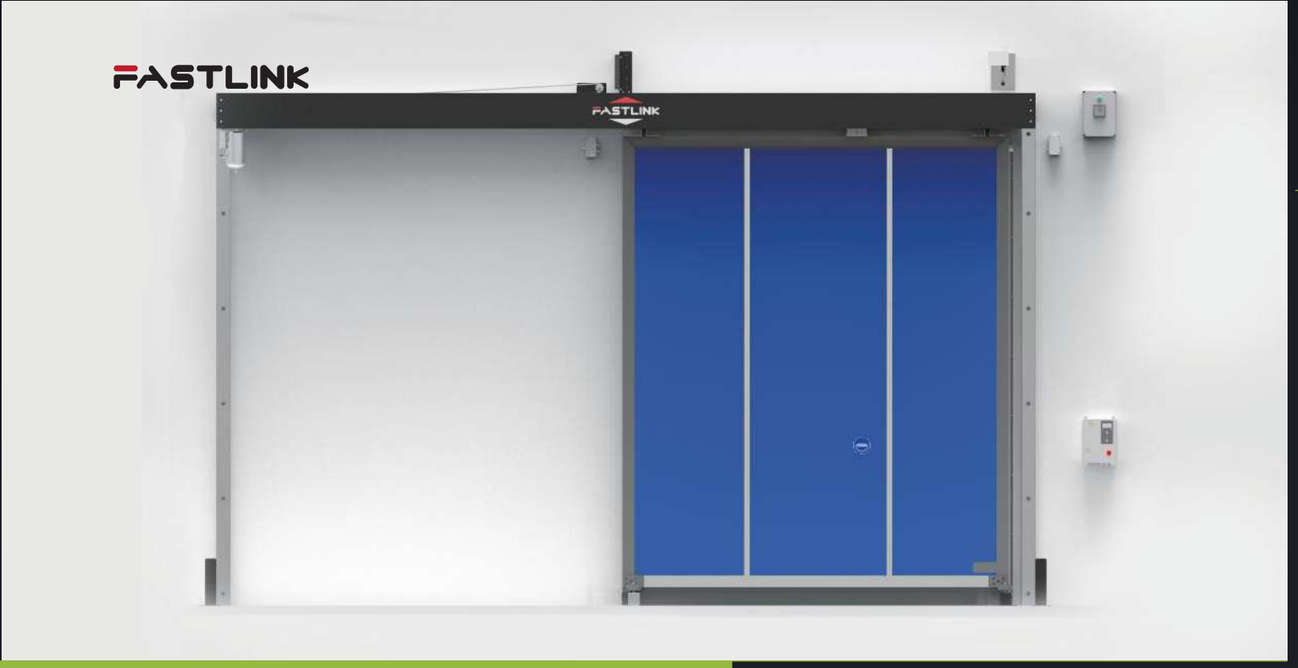
HEAT PRESERVATION
INSULATION & SEALING

SSD-CAV COLD STORAGE INSULATED SECTIONAL DOOR

- SSD-CAV cold storage insulated sectional door of the cold-storage is generally used in the low temperature hall area , which is different from the normal temperature environment. It needs to ensure that during the use, there is no condensation on the door panel surface, no water on the ground and no rusty components.
- The door panel is made of aluminum-magnesium alloy, the pulley seat is made of aluminum alloy, and the torsional spring has an electrophoretic coating on the surface, which is not easy to rust, and is very suitable for humid and low-temperature environment.
- Aiming at the fogging and blurring problem of ordinary windows in cold-storage, the special electric heating glass window design can keep the windows clean and transparent all the time.
- During the installation of products, the thermal Insulation foam can effectively improve the condensation and water accumulation on the floor after the cold bridge is generated when the track is directly fixed with the cold-storage board.

>>> TECHNICAL PARAMETERS

Optional Requirements	Specifications
Door size	Minimum dimension W1800mm * H2000mm(5'11"W * 6'7"H)
	Maximum dimension W5000mm * H5000mm(13'5"W * 13'5"H)
Door opening/closing speed	0.25m/s
Door panel material	Polyurethane foaming
Door frame structure	65mm(2.6")
Door panel colour	RAL9002 / RAL9006 / RAL7040 / RAL7045 (optional)
Installation position	Interior
Door frame combination	Optional
Open configuration (optional)	Remote control/3-key button/ geomagnetic/radar/pull-cord switch
Service life	More than 1 million times
Operating ambient temperature	0℃~25℃



HSS-SFY COLD STORAGE HIGH SPEED FIRE RESISTANTSLIDING DOOR FOR

High-speed opening and closing, fire-resistant and thermal insulation, anti-collision reset

- The cold storage high-speed fireproof sliding doors are designed in accordance with the design specifications of the industry standard "GB50072-2021 Code for Design of Cold Storage".

  They meet the requirements of fire-resistant partition walls for cold storage doors (with the inspection report from a third-party certification agency), and solve the needs of customers who require two or three combined doors installed on the fire-resistant partition walls to achieve fast and efficient passage.

- The maximum opening speed can reach 2.5 m/s.Compared with other cold storage doors, it greatly shortens the door opening time, minimizing the convection of hot and cold air, achieving minimal energy loss, and effectively boosting work efficiency.

  The flexible door panel design enables it to withstand significant external impacts. After being impacted, it can automatically reset without the need for maintenance, ensuring long-lasting durability.

- The unique sealing device between the door panel and the doorway, along with the adjustable sealing design at the bottom of the door, ensures high sealing performance around the door body, meeting the demanding application environments of cold storage facilities.

- Typical application industries: food, pharmaceuticals, logistics, chemical industry, etc. and the single panel one is used for low-temperature cold storage.

>>> TECHNICALSPECIFICATIONS

Optional Requirements	Specifications
Door dimensions (single-leaf)	Minimum size W1300mm * H2000mm(4′3″W * 6′7″H)
	Maximum size W2800mm * H4600mm(9′2″W * 15′1″H)
Door dimensions (double-leaf)	Minimum size W1800mm * H2000mm(5′11″W * 6′7″H)
	Maximum sizeW4000mm * H4600mm(13′1″W * 15′1″H)
Opening speed	The maximum speed can reach 2.5m
Panel thickness	100mm(3.9″)
Door panel	Double-layer high-strength fireproof curtain fabric with tensile resistance, and it is filled with thermal insulation materials inside.
Fire resistance performance	The fire resistance is not less than 0.5 hours.
Heat transfer coefficient(K)	0.6W(m².K)
Door panel type	Single-leaf (door), double-leaf (door)
Door panel color	Blue
Door frame structure	Optional
Air curtain machine	Optional
Heating wire	Optional
Opening configuration (selectable)	Remote control/Three control buttons/Geomagnetic sensor/ Radar/Pull cord switch/Device interconnection
Service Life	More Than Two Million Times
Operating environment	Cold storage environment (the temperature is greater than or equal to minus 25 degrees Celsius)

MEET FIRE RESISTANCE REQUIREMENTS SUITABLE FOR MORE SCENARIOS

Safety sealing

The bottom is equipped with a multi-layer adjustable PVC sealing strip, which can be easily adjusted and replaced to ensure the complete water tightness and air tightness around the door body. Even in extremely cold environments, it can truly block the heat conduction and prevent the occurrence of cold air leakage.

Impact resistance

The door panel is made of elastic materials without metal components. It has excellent resilience and is resistant to impact.

Anti-frost, anti-permeation

The heating coil prevents ice formation and frosting. It is a standard 220V anti-icing heating coil. The self-regulating heating wire has a maximum limiting temperature of 65℃. The electrical control box is equipped with functions of leakage protection, overload protection, short-circuit protection and thermostat protection.

Fully digital control

The intelligent control system enables precise door body positioning, free speed adjustment, and comprehensive function control. The intelligent processor monitors energy loss, and an advanced fault diagnosis system ensures quick problem identification, guaranteeing smooth operation.

Fireproof performance

The door's fire-resistant integrity is no less than 0.5 hours. The door panel's surface layer should be of non-combustible material, and the core material has a combustion performance grade of Class B1.

Enable high-speed opening and closing.

An opening/closing speed of up to 2.5 m/s accelerates logistics, boosts efficiency, and cuts energy consumption.

Safety performance

In case of a cold storage door power outage, it can be manually opened in an emergency from both inside and outside. The built-in safety photoelectric sensors ensure safe passage.

SD-SPY METAL COLD STORAGE SLIDING DOOR

Thermal Insulation&heat Insulation, safe and efficient

- The metal slidingdoors of the cold storage adopt premium polyurethane Insulation corematerials and an advanced modular manufacturing process.

  These doors standout with a highdegreeof standardization and a sleek, simple structure, ensuring smooth andreliableoperation.

- Boasting anextended servicelife, superior thermal Insulation performance, and top-notch safetyfeatures, they are the ideal choice for optimizing cold storage efficiency and security.

  It is produced and installed in accordance with the national standard of "17J610-1 Cold Storage Doors" and the industrial standard of "SB/T10569-2010 Cold Storage Doors".

- Equipped with a variable line track and a floating-open sinking-closed door system, it attains a self-sealing effect for enhanced performance.

- Typical application industries: suitable for assembled, civil construction, constant temperature and ultra-low temperature cold storages with temp. not below -60°C in food, medicine, logistics and chemical industries.

>>> TECHNICALSPECIFICATIONS

Optional Requirements	Specifications
Door size	Minimum size W800mm*H2000mm(2'7"W * 6'7"H)
	Maximum size W3300mm*H5600mm(10'10"W * 18'4"H)
The opening/closing speed the door	The speed opening and closing the door 0.6m/s
Panel thickness	100mm(3.9")/150mm(5.9")/200mm(7.9")/250mm (9.8") selectable
Door panel materials	304 brushed stainless steel/colored steel, with polyurethane filled inside
Door panel type	Single-leaf (door), double-leaf (door)
Installation location	Outside the cold storage / Inside thecold storage
Opening configuration	Remotecontrol / Wireless button / Pullrope switch (optional) / Geomagnetic sensor (optional) / Equipment linkage, etc.
Operating ambient temperature	- 60°C ~ + 50°C

HIGH STANDARDIZATION, SIMPLE STRUCTURE

Door panel

The door panel is made of 304 stainless steel plate with a brushed finish or colored steel. It is internally filled with thermal-insulating and flame-retardant polyurethane, which has a density of 45±3Kg/m³.

Track

Heavy-duty aluminum alloy enclosed track, designed to prevent derailment safely. There is a "V"-shaped groove with floating and sinking closed functions inside the guide rail. The track is manufactured using the 6063 - T5 process, with a thickness of 8mm and a surface treated by anodic oxidation.

Net unit of door

Aluminum alloy/304 stainless steel cold-formed structural net frame (door frame). It is designed with an embedded electric heating slot, and the power of the self-limiting temperature heating wire is 25w/m.

Drive system

It adopts the rack and pinion transmission form and is equipped with a permanent magnet servo motor. The protection level of the motor and its control system is IP65.

Hardware and accessory

In the event of a power failure, the cold storage door can be manually opened from both the interior and exterior. The exterior features a lever-style door opener handle, while the interior is equipped with an automatic interlocking door opener. The interior door unlocking mechanism is prominently marked with luminous signs for easy visibility, ensuring reliable emergency egress.

Safety installations and devices

The self-limiting temperature heating wire is designed with a maximum temperature limit of 65°C, fully compliant with GB/T19835 standards. This ensures safe and stable heating performance. The electrical control box is outfitted with comprehensive protection features, including leakage, overload, and short-circuit protection, as well as thermostat safeguarding, providing reliable and worry-free operation.

Heating system

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MORE PRODUCT DETAILS FOR HUMID ENVIRONMENT OF COLD-STORAGE

Track Thermal Design

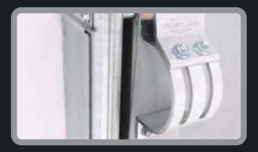
SSD-CAV cold storage insulated sectional door track of a cold-storage is equipped with a thermal inlulation foam to prevent the generation of the cold bridge when it is fixed, and the sealing rubber strip is further embedded on the thermal inlulation foam/ to improve the sealing effect of the door.

Torsional Spring Electrophoretic Coating

The torsional spring is made of alloy spring steel and its surface is treated with shot peening. The coating is more resistant to corrosion. It is very suitable for the cold environment of the cold-storage and is not easy to rust.

Handleless Design

In case of power failure, manual chain is used to open the door, and manual box handle is no longer needed to be added to the door panel, which means no more cold bridge and dew condensation.



Closed Track Design

It is safer with hand protection. The track and the sub-track are detachably connected, which makes replacement easier and maintenance costs lower.

Aluminum Alloy Pulley Seat

The aluminum alloy pulley seat is used to connect the door panel. It is a patent design of Fastlink which realizes multi-angle adjustment and ensures that the door panel is always in the best sealing state.

Electric Heating Window

The insulating glass window with the electric heating system used in the cold-storage will always be clean, transparent and fog-free.

IMPROVING HANDLING EFFICIENCY TO MAKE THE WORK BE DONE AT ONE TIME

DOCK LEVELERS

The dock levelers can effectively adjust the height difference between the bottom plate of different transport vehicles and the platform, and form a transitional slab between the rear of the vehicle and the platform, so that the handling process can be completed once, avoiding the possible accidental damage and unnecessary risks of vertical handling.

It can realize the safe and fast handling process and improve the efficiency of logistics handling.

The dock leveler can be divided into two types: the hydraulic type and the telescopic type. For such places with high requirements for sealing performance and Insulation performance as a cold-storage, in order to avoid the convection of hot and cold air inside and outside the warehouse, the plate-turning dock leveler needs special treatment, and the telescopic platform is undoubtedly the best solution.

▲ The dock leveler of the cold-storage unloading bay is installed under the insulated sectional door, and the platform clapper is exposed outside the cold-storage. Any opening or gap will cause the convection of cold and hot air inside and outside the warehouse. If it is not treated, it will directly affect the temperature of the cold-storage hall, causing a lot of energy loss.

DLS-SHK / DLS-SHI
HYDRAULIC DOCK LEVELER

EASY & EFFICIENT
HANDLING EQUIPMENT

USED IN SEALED &
HEAT-PRESERVATION ENVIRONMENTS

DLT-THK DOCK
TELESCOPIC DOCK LEVELER

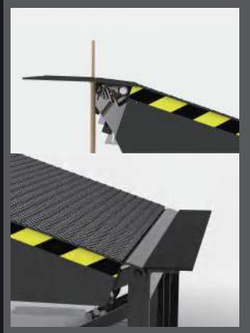
Safety Details

Countertop Bottom Reinforcement Ribs

The structure of the dock leveler is reinforced by 8-10 C-type section steel reinforcement bars to maintain elasticity of the platform and achieve optimum support.

Inverted Oil Cylinder Design

The special inverted design of the oil cylinder can effectively prevent the oil cylinder seal ring from leakage and the safety lock valve from failing due to dust deposition.



Multiple Smooth Designs

The clapper adopts the double 5-degree arch design, which can increase the overlapping area of clapper and carriage, make the transition smoother, and avoid jolting when forklifts truck pass by.
The patented arc transition design at the rear ensures that the platform is in an effective contact with the forklift tires within different height adjustment ranges, thus reducing the jolting of forklifts, occurrences of occupational diseases of the forklift drivers and the damage to the goods caused by jolting.

Through-Type Maintenance Support Bar

The through-type maintenance support bar can effectively support the platform and the clapper to resist the impact from the front and side. The support point is in the middle of the clapper. The penetrating design enhances safety & anti-collision performance.

Closed-Tube Hinges

The closed tubular hinge is designed to increase the contact area with the pin shaft so that it can bear the force more evenly. The tubular hinge can be lubricated with grease to ensure the flexible opening of the clapper.

Smart Control

Fastlink pioneered the Internet of Things (IoT) control box, which has received national invention patents. It enables the implementation of additional extended functions, creating value for customers by achieving intelligent management.

Full-Sealing Design of Unloading Bay

Sealing performance is the key point of cold-storage unloading bay design. The DLT-THK telescopic dock leveler platform is installed on the inner side of the sectional door of the cold-storage, and directly falls to the bottom of the foundation pit after the door is closed, which stops air convection between the indoor and outdoor, thus realizing the full sealing design of the unloading bay and reducing the energy loss.

Design Concept of Whole Cold Chain

For customers who require more stringent requirements and realize the whole cold chain, through the special foundation pit design, the refrigerated car can be parked first, and then the door of the refrigerated car can be opened from the indoor side to minimize the impact on the temperature inside the refrigerated car.

Flexible Telescopic Adjustment

DLT-THK telescopic dock leveler can be installed inside the unloading bay door of the cold-storage, and the telescopic adjustment amount up to 1,000mm(3'3")/1,200mm(3'11") can also ensure the normal use of handling goods.

Indoor Installation Effect

Outdoor Installation Effect

DH-ISR DOCK HOUSE

COLD-BREAKING, ENERGY-SAVING & SPACE-SAVING SOLUTION

- For the spacious area of outdoor parking space, the DH-ISR dock house is also an option for cold-breaking design. The DH-ISR dock house is installed on the outside of the insulated sectional door of the cold-storage, which can save precious space inside the cold-storage. The utility model comprises a handling room, a dock leveler, door seals and the like. After the sectional door is closed, the convection of indoor and outdoor air can be cut off, and the hole can be sealed better.
- The dimensions of the DH-ISR dock house should be designed according to the dimensions of the door opening and the unloading platform. The strength is calculated by static load. Generally, the modular structure is convenient for assembly and transportation, as well as for on-site installation.
- The DH-ISR dock house generally adopts 42mm(1.7″)、thick polyurethane plates, including the bottom frame of the unloading room, and can also be Insulation according to customer requirements.

DSM-ST500 MECHANICAL DOCK SHELTER

FOR THE SEALED ENVIRONMENT WITH MORE TRUCK TYPES

Saving Energy

It has a good sealing effect on the space between the vehicle and the warehouse. It is windproof, rainproof, dustproof, and blocks the air flow, and also improves the working environment and helps energy saving and operation in the warehouse.

Frame Structure

The door shelter is composed of front frame, rear frame and connecting arm. The whole frame is treated with hot galvanization for corrosion resistance, and the surface is fixed and decorated with aluminum alloy profile which is anodized for an elegant appearance.

Curtain Quality

The curtain is made of neoprene fiber or polyethylene fiber cloth and coated with PVC.
Tensile Strength:
9,800/8,300 (N/5cm)
Tear-Resistance Strength:
1,700/1,500 (N)

Bottom Door Mat

The bottom door mat ensures that the door shelter and door curtain are vertical while ensuring better sealing performance.

Steel Protection Device

In order to protect the handled goods and the door shelter from collision from the handling process, as well as reduce maintenance, the steel protection device is added.

Telescopic Frame Design

The frame is hinged to allow backlog and provides the necessary flexibility when approaching the vehicle.

Top Drainage System

The top of the door shelter frame is inclined to facilitate top drainage.

Sturdy Frame Structure

Effectively prevent side frames from spreading out under high pressure.

Multiple Specifications & Dimensions

Dock Sela Size	Width	Length	Height
W3200mm * H3500mm * T600mm (10′6″W * 11′6″H * 2′0″T)	3200mm (10′6″)	3500mm (11′6″)	600mm (2′0″)

Custom size range:
Minimum size: W2800mm * H2600mm(9′2″W * 8′6″H)
Maximum size: W4000mm * H5000mm(13′1″W * 16′5″H)

DSS-SS250
SPONGE DOCK SEAL

BEST CHOICE FOR TRUCKS WITH UNIFORM SIZE

Strictly Sealed Environment

High performance sponge with maximum compression density up to 70%.

Enhanced High-Quality Performance

The fabric fixed with screws and metal buttonholes always ensures an even air spillage.

Better Security Assurance

Effectively reduces energy consumption while ensuring personal and property safety.

Less Pressure and Friction

Unique pressure relief design can effectively reduce the friction between the door seal and the truck, and prolong the service life of the door seal.

Wearproof Shutter

Distributed on both sides and above to provide additional wear protection and effectively extend the service life of the door seal.

Plated Steel Plate Gasket

Eliminates the potential problems of distortion, perishability and susceptibility to corrosion that wooden liners may encounter in the past.

Guide Bar

Yellow guide bars with reflective properties provide better safety.

Different top designs are available for different truck heights, such as: fixed, adjustable, hanging curtain, airbag, etc.

Custom size range:
Minimum size: W1800mm * H2000mm(5'11"W * 6'7"H)
Maximum size: W4000mm * H5000mm(11'1"W * 13'5"H)

IDS-SI950
INFLATABLE DOCK SHELTER

FOR LOADING&UNLOADING ENVIRONMENTS OF HIGH ENERGY CONSUMPTION

Easy Operation

After the vehicle stops, the electric switch is turned on, and the IDS-SI950 inflatable dock shelter seals blower starts to inflate to seal the gap between the three sides of the carriage and the opening completely. The surface material of the door seal is soft and will not damage the surface of the vehicle. The blower needs to continue working during operation to ensure the pressure for airbag, so that a certain wind resistant performance is there.
After completing the operation process, the blower switch is turned off, the airbag is automatically deflated through the vent holes, and the airbag is automatically retracted by the built-in balance weight.

Wide Range of Application

The width adjustment range is up to 1,000mm(3'3") and the height adjustment range is up to 1,000mm(3'3"), which is suitable for the height of various truck chassis.

Effective Operation

It adopts a large air volume fan with a voltage of 220V and is installed outdoors to meet the needs of application during extreme weather (-30℃- + 50℃) .

Low Maintenance Requirements

The surface material of the inflatable door seals is high-quality neoprene rubber with high wear resistance and flexibility. The black color material leads to a service life of no less than 30,000 times.

Signal Light

The clearly visible signal light system directs the truck and forklift drivers to operate in an orderly and safe manner.

Custom size range:
Minimum size: W2800mm * H3000mm(9'2"W * 9'10"H)
Maximum size: W4000mm * H4500mm(13'1"W * 14'9"H)

FASTLINK'S ADVANTAGES

WE PROMISE TO PROVIDE MORE DURABLE SECURITY

Fastlink After-sales Advantage

Security Provision Professional team, original accessories, liability tracing system

Quick Response Far above the industry level

Scientific Data Management System Any maintenance data is traceable, and we strives to continuously optimize our service capabilities

More Economical Maintenance Package Cover all consumable replacement and maintenance items

Providing Third-party Additional Protection

Fastlink has purchased third-party insurance for each product and for each on-site after-sales staff, providing you with double protection and removing worries for you.

Product Accident Insurance
At the customer's site, any property loss or personal injury caused by Fastlink products shall be settled by the third party insurance.

Personal Accident Insurance
Any personal injury accident caused by the employees of Fastlink shall be settled by the third party insurance during the on-site work of the customers.

Providing Maintenance Packages Of Different Specifications After The Warranty Period

SERVICE

Compared with the layout of the sales network, Fastlink attaches more importance to the fulfillment and delivery of orders and the after-sales guarantee of products.

Since the establishment of the company, we have passed on the after-sales service gene, and the three service teams have been constantly expanding the localization to achieve the service guarantee of rapid response.

Fastlink has nationwide distribution of

- **Project Management Team**
- **Installation Team**
- **After-sales Service Team**

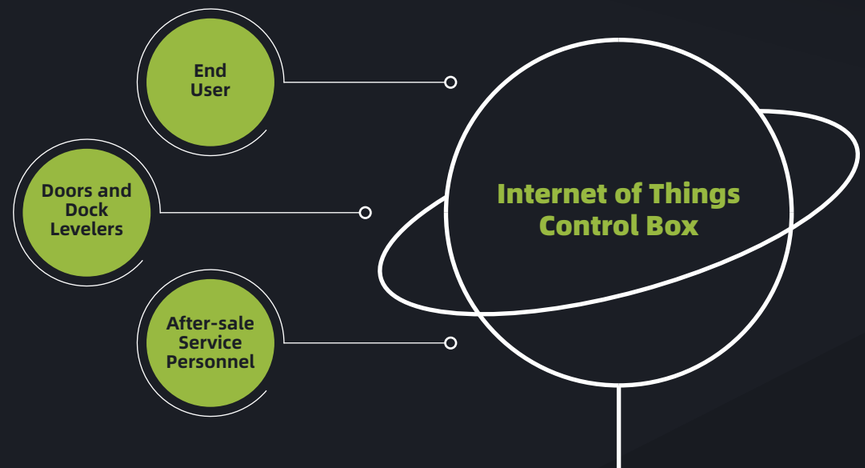
- Shanghai
- Kunshan
- Suzhou
- Changzhou
- Zhejiang
- Hefei
- Fujian
- Guangzhou
- Wuhan
- Shenyang
- Tianjin
- Shandong
- Beijing
- Hebei
- Zhengzhou
- Xi'an
- Chengdu
- Chongqing
- Guiyang
- Huhehaote

INFORMATION MANAGEMENT

Fastlink takes the lead in investing resources to establish an intelligent service management platform, and continuously launches service functions such as efficient inquiry of orders for customers and one-click report for repair and customer evaluation on the mobile phone, so as to realize end-to-end service that starts with customer demand and ends with customer satisfaction.

TECHNICAL SERVICE

Fastlink initiates the world's first Internet of Things Control Box (national invention patent), realizing system interconnection and turning passive service into active service.



① Customer Service Terminal QR Code Repair Report

Customers can scan the QR code with the mobile phone to quickly report for repair, inquire the contact information of the assigned after-sales engineer, and check the whole service process in real time.
Fastlink distributes task orders on APP to the nearest after-sales service engineers, realizing data management from the assigning to the completion of the repair. Customers can evaluate the service on the mobile phone, which always reflects the business philosophy of customer first.

② Cloud Platform

The cloud platform can display the usage status of warehouse products in real time (running times, fault information, real-time uploading).

Authorized customers can check the usage of all projects in the country from the system, and accurate data analysis for equipment repair and maintenance are provided to customers.

The system can connect with the customer park management system and realize the management goal of an intelligent park.