



V-SIGN INDUSTRIAL CO., LTD

Add. #26-288 K-Tech.park Wuxi city 214000 Jiangsu pr. China
Tel: 0086-510-82811159 Fax: 0086-510-80235786 Mobile: 0086-150 506 85919
URL: www.v-signindustrial.com E-MAIL: chorry@v-signmetals.com

HIGH SPEED SPIRAL SHUTTER DOOR

(Door's revolution --- Fast,Light,Clean,Durable,Safer,Intelligentized)



A) DESCRIPTION

High speed spiral door is a new type of metal industrial door that integrates heat preservation, energy saving, sealing, high efficiency, wind resistance and environmental protection. This door type is suitable for indoor and outdoor logistics and production fast access, this door can save a lot of energy by air circulation, which is about 180% less than that of sliding door and rolling curtain door. Type of quick opening and closing makes the enterprise in the production and logistics transport speed been improved greatly, and the door is the only channel to enterprise logistics and production, its use and selection of the enterprise has a close relationship with the production and the efficiency of logistics. It has high reliability, practicability, easy operation and quick repair, drive control system stably, energy-saving and accurate frequency conversion system to guarantee the reliable operation of the door body, which can ensure more than 150,000 operations per year.

It is a high-tech product which import advanced technology research. The advent of high speed metal rolling door has brought the new concept of industrial door, and the technology is leading level in the world.,it can keep good sealing at high or low pressure. It can withstand strong winds of more than 120km/s. The opening speed of the door can reach up to 2.5m/s depending on its size. The door is not only beautiful in appearance, but also has high practicability, reliability, durability, easy operation and low noise. It is the best choice in chemical, pharmaceutical, automobile and food processing industries,the fast spiral door can meet or exceed the requirements of the customers for hard aluminum alloy fast door.

B) STANDARD SETTING

- 1) **Panel:** 0.7mm thick aluminum sheet, the injected PU (polyurethane) unit weight 50kg, overall thickness of the door plate is 40mm/43mm/51mm and the width 185mm/225mm/229mm, tensile strength 230B/MPA via GB/T5237.



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Standard 3-5rows transparent windows in a door.

Full transparent panel width limited **6,340mm width** max.

Wind Resistance capacity 30 M/S (DIN EN 12424/12 force)

Heat preservation : K-VALUE 0.4W/M2K.

- 2) Standards colors of shutter: silver, white, yellow, blue, red, RAL.
- 3) Motor (WITH MANUAL RELEASE)--power input : Overload over-current protection
BAOJIU servo motor: 220V /0.75KW/1.5KW/2.2KW
SEW (GERMAN OPTION) frequency motor.
220V 1PH 0.75KW/1.5KW/2.2KW/3KW
380V 3PH 0.75/ 1.5KW /2.2KW/3KW/5KW and more

Opening speed 0.8-2.5m/s (adjustment) ; Closed speed 0.6-0.8m/s (adjustment), ensure above 2,000times every day.

- 4) Control panel: IP56 control box with the national electrical safety standards.within waterproof ,anti-dusty,fireproof, attached one button with emergency stop switch; power after manual opening mode.
- 5) Optional devices: remote control, scanning card, light screen
- 6) Max. possible dimensions: W12000*H15000mm.
- 7) IP56 Control box (SHIHLIN ELECTRIC INVERTER, KW PLC) .
- 8) With power off the memory function, after the power failure, the manual special control system for industrial door, DSP chip core, set opening height by encoder accurately. LED fault indication.
- 9) Turning protection: the door stops when control panel warns the wrong connection of driving-line.
- 10) Special close of twist ring, location ring, and speed ring.
- 11) The system comes with the braking function, without the external electromagnetic brake pads, the motor can be stopped at the designated position. The door stops at limited position no difference.
- 12) On reset operation, no need to adjust again.
- 13) Infrared safety protection: 500mm from the ground on frame column installed a pair of the infrared correlation switch, pedestrians or object is that when the door a body falling through, realize automatic door rebound to the highest level.
- 14) Loop motion detector: buried in the ground under the door on the magnetic coil, when has the large metal objects such as forklift truck or car through the lines of magnetic force circle metal cutting lines of magnetic force in magnetic field information into a signal to the control system, control system to respond in a timely manner the door open to the highest level.
- 15) Bluetooth frequency: Bluetooth frequency technology enables the door to be opened when the running objects close to the door without opening a window and swiping a card.
- 16) CEDES light curtain: installed in the direction of the door in and out of a set of 1800 mm high, 20 pcs of homogeneous array infrared emission receive switch composed of security systems, protection area is large, safety performance is high, minimize blind spots.

Standard setting	<ol style="list-style-type: none"> 1. Control system: CE servo motor + IP56 control panel: 220V 1PH 0.75KW/1.5KW/2.2KW 2. SEW motor (German option) frequency motor + IP56 control panel: 380V 3PH 0.75/ 1.5KW /2.2KW/3KW/5KW and more 3. RAL codes aluminum sheet 0.7mm, PU foam 43mm (50mm) ,width 225mm, or hollow aluminum panel, transparent panel etc. 4. Photocell safety device & Airbag wireless safety edge device & bluetooth & remotes 5. Brake manual release device: to stop door falling down suddenly when counterbalance spring broken or power cut, and change to open & closing manual operation. 6. Manual switch (triplex)or NO TOUCH SCANNED BUTTON 7. Open & closing by RADAR and both sides LOOP MOTION detectors. 8. The door body RAL powder painted 2.5mm, or S/S304 frame. 9. Including 3row of transparent windows free, 10. CEDES LIGHT CURTAIN, 1.5METER OR 2.0METER HEIGHT.
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C) CONFIGURATION DETAILS

Description	High speed spiral door
Model	High speed spiral door KS-2500MM/S series
Control system	<p>The door adopts special control system.The kernel is a DSP processing chip. The system can control the opening height of the door precisely by receiving encoder signal of Baoku servo motor :</p> <ol style="list-style-type: none"> 1. The system has the function of displaying the fault code through the LED pipe. 2. Steering protection: when the motor drive line is connected incorrectly, the controller directly reports the error and the door body stops. 3. Torque rings, position rings and speed rings of the special system are fully closed. 4. The system has its own braking function, which enables the motor to stop at the specified position without the external electromagnetic brake pad, so that the door body stops at the limit position without any difference. 5. The memory function after a power failure. When manual operation is performed after a power failure, if the motor is charged directly, it can return to work without further adjustment. 6. Motor overload and over-current protection.
Motor system	<p>The motor drive system adopts the industrial door Baojiu servo motor system. Baojiu servo motor Brake system; Large inertia planetary reducer; Emergency manual opening mechanism.</p> <ol style="list-style-type: none"> 1. The constant torque output of baoku servo motor makes the function of safety protection device (such as infrared ray) play to the best and rebound quickly. 2. Strong overload capacity, in some high frequency occasions switching can work more than a thousand times a day.
Bottom buffer	<p>On the basis of the characteristics of treasure for a long time the constant torque of the servo motor, make the door to run more smoothly, and solve the problem of the door body in the running noise, buffering at the end of machine of decelerate of effective protection and operation institutions rigidity damage, different speed can be adjusted according to the actual needs of digital, fast - slow - stop change, reducing parts grinding, especially for the protection of the retarding mechanism is most prominent.</p>
Lifting mechanism	<p>Screw up. The door of the aluminum alloy turbine guide bearing orbit, is the company's patented technology that ensure the curtain in the opening and closing process of high speed running, curtain and rotating friction noise control orbit, according to the on-site installation structure can be divided into: turbine inhaled, elliptical inhaled, vertical lift, 90 degree standard lift a corner or more tracks, standards for turbine inhaled, other ascending way needs and our sales staff to make an appointment in advance.</p>



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Hydrodynamic mechanism	<p>The door curtain is divided into body assembly structure: aluminum alloy door plate with heat insulation of broken bridge, multi-layer sealing tape, muffler bearing hinge, polyurethane guide wheel and other parts:</p> <ol style="list-style-type: none"> 1. The standard thickness of the thermal insulation door plate is 40mm, and the surface is treated with anodic oxidation and organic coloring. The wind resistance can reach level 12. According to the international standard, the optional colors are silver gray, pearl white, champagne, gray, blue, etc. 2. Seal the door panels with soft connecting strips, and the folding life of the soft connecting parts is over one million times. 3. The design of hinge bearing mode makes the joint of the door curtain not bear force, and the door plate is not in contact with each other, so that it can keep flat after a long time. 4. The door body slides in the aluminum alloy track through the polyurethane guide wheel and runs at high speed.
Fail-safety system	<ol style="list-style-type: none"> 1. Electric eyes for line safety protection: There are opposite electric eyes on both sides of the door frame. When there are obstacles under the quick door, the door body remains open. When the door body drops, the object passes through. The door will be opened to the open position. External infrared devices can be used to control the rapid rebound of the door. The rebound rate can be set simply by modifying the parameters. It is also used by changing the parameters to determine the function of the infrared device definitions, such as touch infrared, rebound a single action or make the door for a long time not to move, and other functions can change the parameter to decide. 2. The security and protection at the bottom of the edge: when the door body falling, the objects in infrared security is in a blind area, the hydrodynamic pressure beneath obstacle, news fast rebound in the body at the door to open the door, object or pedestrians below for effective protection to avoid accidents.
Wind resistance	32 m/s (national standard wind resistance level: 12)
Transparent window	High quality polycarbonate plate, the design of double layer structure not only ensure the door inside and outside heat preservation effect, but also keep good transparency and lighting effects. It is clearly visible and has a grade appearance.
Sealing property	Guide seal, middle seal of door plate, top seal of door body, bottom seal of door body, multiple seal to ensure the airtight inside and outside door body and isolation effect.
Thermal insulation properties	For the installed closed door (4 x 3 m) insulation K 0.6 W/(m ² • K) or less.
Rapid repair	In case the door plate is damaged, there is no need to repair the whole door plate disassembly. The aluminum insulated door plate strips fixed with suspension can be disassembled by one person.



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Manual function	In case of power failure, the motor brake is turned on at any time.The door body is lifted by the balance system, which can effectively solve the problem that the door body cannot be opened due to power failure or failure.
Counterbalance system	The balance spring is arranged inside the both side door posts, and the weight of the door plate is maintained to a certain degree. At the same time, the load of the motor is reduced and the operation is smooth.
Overall appearance	We have high quality galvanized sheet by laser cutting machine.Our accurate shaped turbine system, guide rail system, protective cover produce by the bending machine.All the parts are not rust for a long time, external beauty, dusty-proof and easy cleaning.
Drive system	The one-body drive system makes both sides of the door under uniform force and the overall running smooth.
Control cabinet	The thickened IP56 control panel according to the national electrical safety standard.
Plank of traction	Adopt high quality, wear-resisting, high-strength roller chain structure, the door body through synchronous chain drive into the turbine mechanism that can speed up.
Institutions promote	The self-developed aluminum alloy guide rail is in line with the guide rail system for fast variable speed. It can effectively improve the door body during operation and effectively prevent vibration and noise.
Power requirement	220V/380V/ 14A/50Hz/
Insulation protection	IP54 It is waterproof and dusty-proof even in bad environment.
On/off mode	Standard one-button button with emergency stop switch. Manual opening will be used after power off.

D) PANEL COLOR (RAL)





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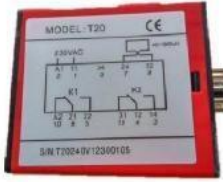

Motor Options

Servo	SEW(Germany)	SEJ
 <p>Proposal</p>		

Standard Control Options

Mannual button	Radar	Infrared Sensor
		

Other Control Options

Touchless scanning sensor	Remote control	Network Card Machine	
			
<th>Card Machine</th> <th>Geomagnetism (Loop motion detector)</th> <th>Passenger vehicle shunt radar</th>	Card Machine	Geomagnetism (Loop motion detector)	Passenger vehicle shunt radar
			

Safety Device

Bottom Safety air bag	CEDES Light Screen	Crash Column
		



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Pictures	Item	Description
	Panels	<ol style="list-style-type: none"> 1. Material:Aluminum alloy,Sandwich constructions. 2. Anti-pinch hand door panel. 3.Color Options: grey, white, silver.
	View Windows	<ol style="list-style-type: none"> 1. Materials: PC, 3mm thickness . 2. Double PC Panel 3. Anti-pinch hand door windows panel.
	Panels Hinge	<ol style="list-style-type: none"> 1. Material: Aluminum alloy. 2. Size: 220*100*5.0mm
	Bottom Beam	<ol style="list-style-type: none"> 1. C type aluminum alloy bottom. 2. Black seal materials is EPDM rubber. 3. Width: 3200mm.
	Roller	<ol style="list-style-type: none"> 1. Size: 38*145 2. Materials: Iron core polyurethane around top
	Spiral Cover Box	<ol style="list-style-type: none"> 1.Size: 780*850MM, thickness: 5mm. 2.Material: 6063 magnesium aluminum alloy.
	Inside Straight Rail	<ol style="list-style-type: none"> 1. Material: 6063 magnesium aluminum alloy. thickness: 5mm. 2. 43*60mm (depth*width) 3. Inside roller rail
	Rail Brush Seal	<ol style="list-style-type: none"> 1.H type 2.Aluminum+ brush
	Chain	<ol style="list-style-type: none"> 1. Specific: 10A 2. Short pitch precision roller chain
	Springs	<ol style="list-style-type: none"> 1. Materials: Carbon Steel 2. Each set has two springs.
	Drive Shaft Connector	<ol style="list-style-type: none"> 1. Connect to motor 2. Materials: 40Cr quenched and tempered, hot-dip galvanized surface.
	Rail Cover Box	<ol style="list-style-type: none"> 1. Size:300*255mm (depth*width) 2. Materials: Galvanized steel with power coated. 2mm thickness.
	Manual Release Device	Manual release device
	Motor	<ol style="list-style-type: none"> 1. Servo motor/ SEW motor/ SEJ motor 2. 220V; 1.5KW.Single-phase electricity
	Control System and box	<ol style="list-style-type: none"> 1. 0.8M/S ~1.5M/S. Adjustable. 2. Opening frequency: 1000-1500cycles/day 3. Protection level standards: IP54.



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E) COMPONENTS



Hinge



Wheel



Alu.hollow panel



Panel of foam (PU)
fireproof

Door Panel



Control box



The surface of the fast door is very smooth and all moving parts are designed in strict accordance with European safety standards (DIN EN 12604)

Spiral circular when the door curtain rolled out,they will touch with each other.Curtain material always no wear,deformation,running low noise and fast.

Each strip is screwed to the steel strip on both sides of the curtain to ensure that the strip is not stressed even when the curtain is vertical. The vertical lifting of the door can be produced by winding the steel belt.

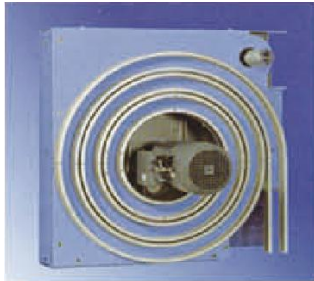


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The high speed drive motor is controlled by a servo or frequency motor and a microprocessor. In case of power failure, the door can also be opened by manual control of the internal tensioning.

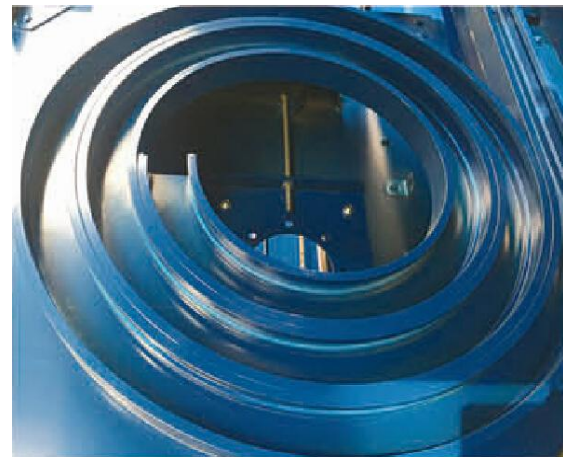


Fully transparent panels can also be kept clear and transparent for many years. can be replaced at any time. strong wind resistance, high sealing and low noise is unmatched by other products.



An accurate infrared BAST light screen is generated on the open plane of the door, and the obstacles can be easily identified in advance, which greatly increases the active and passive safety of the high speed door.

High speed spiral door turbine rail is beneficial to the acceleration of the door body, making the door body more stable in high speed operation and reducing noise. Moreover, our company supply double turbine structure better than other companies' single turbine structure, and the safety index is higher. The multi-row hinged characteristic bolts are fixed, and the hinge connection is made of qp-treated steel shaft and PEEK sleeve, which increases the surface hardness of the shaft body and greatly increases the corrosion resistance of the shaft. The surface of the shaft is smooth, not easy to corrode, high strength.





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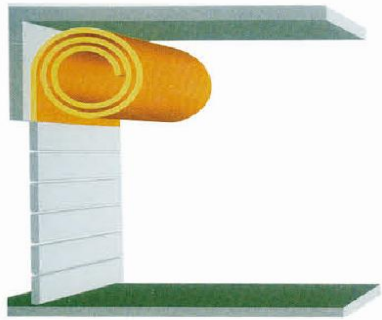
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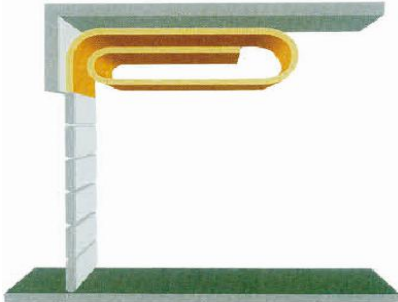
※ OPTIONAL TRACKS

Circular spiral



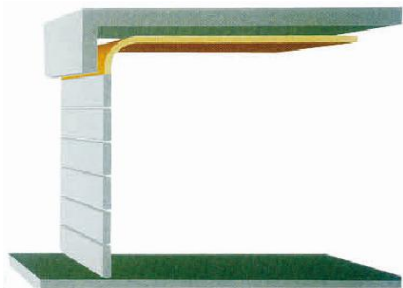
Circular spiral rail is the standard design
Best solution for enough space above the door.

Oval spiral



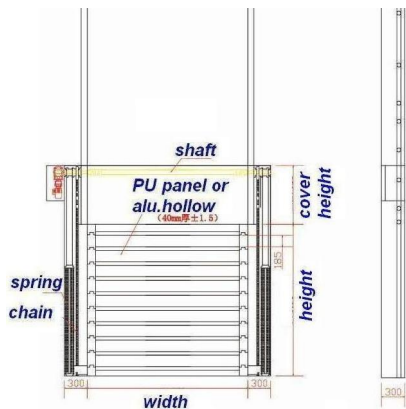
Oval spiral rail is space-saving design.
Used for the space is limited

Low track



“L” 90 degree rail is designed to ensure maximum safety for people and vehicles.
Sectional door replacement
Used in underground parks and garages.

Vertical track



Vertical rail is space-saving design.
Sectional door replacement.
Used in underground parks and garages.



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※ COMPONENTS OF OPTIONAL MOTORS (more motor information attached user manual)

Servo motor



Baojiu servo motor

(Standard)

220V 1PH 0.75KW/1.5KW/2.2KW/3KW
Only used for below 30sq.m

Frequency motor

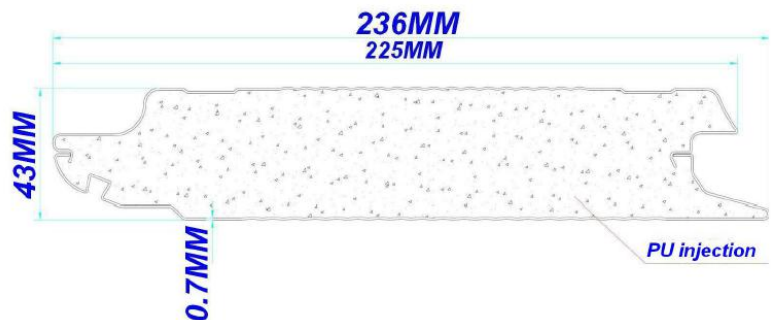


SEW frequency motor **(Option)**

220V 1PH 0.75KW/1.5KW/2.2KW/3KW
380V 3PH 0.75/ 1.5KW /2.2KW/3KW and more
For below 30sq.m; above 30sq.m bigger door has to be used only

※ COMPONENTS OF OPTIONAL PANEL

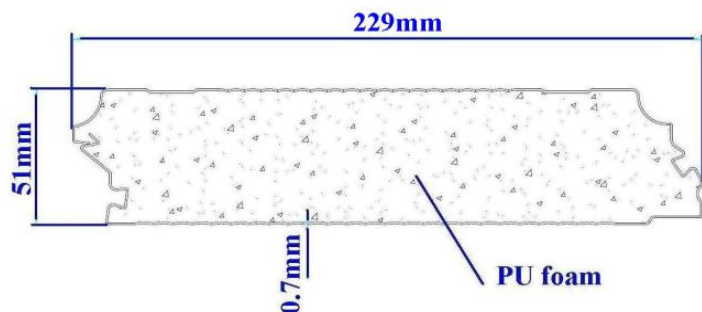
a) 225mm panel
(**proposal**)



b) 185mm panel



c) 229mm panel



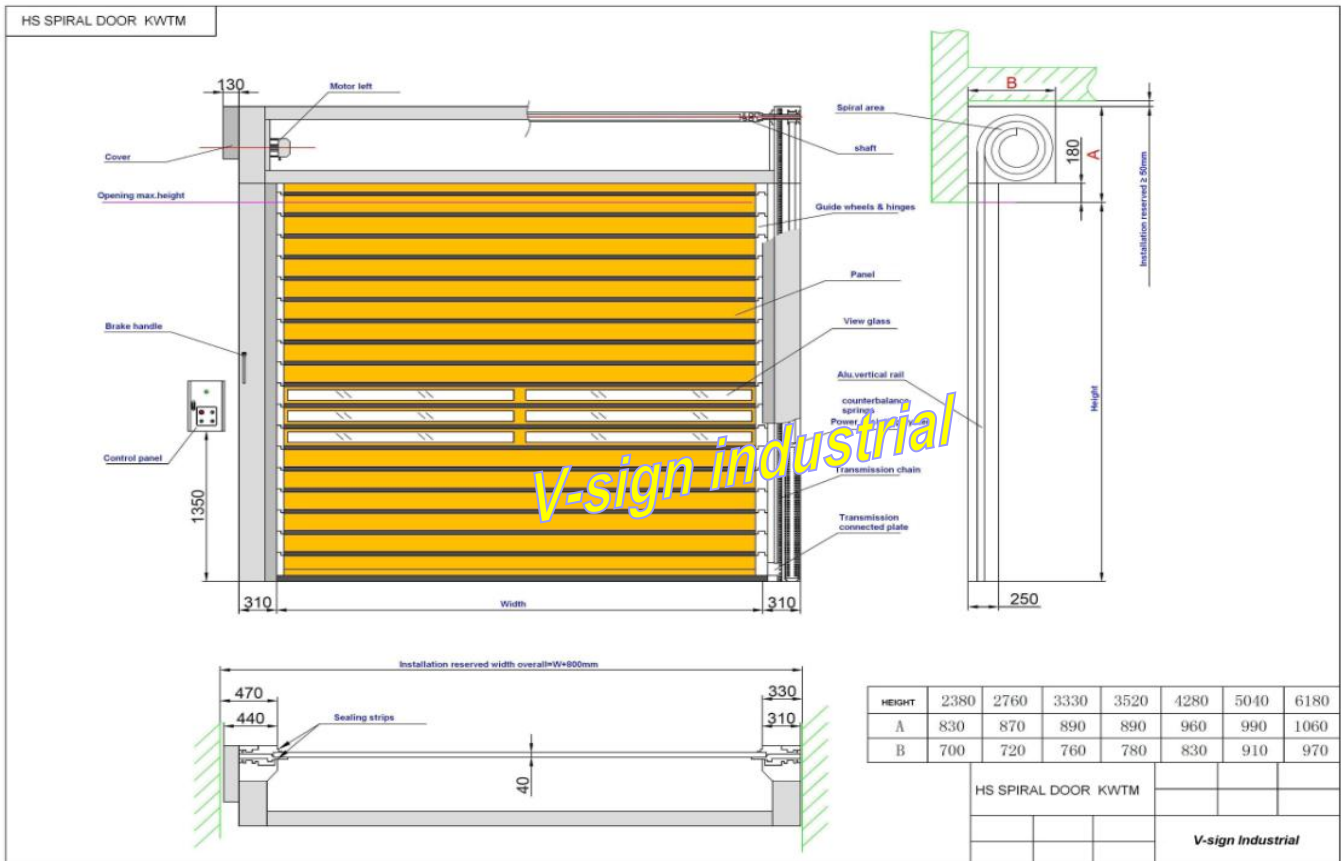


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F) EXAMPLE INSTALLATION (more installation information in attached user manual)

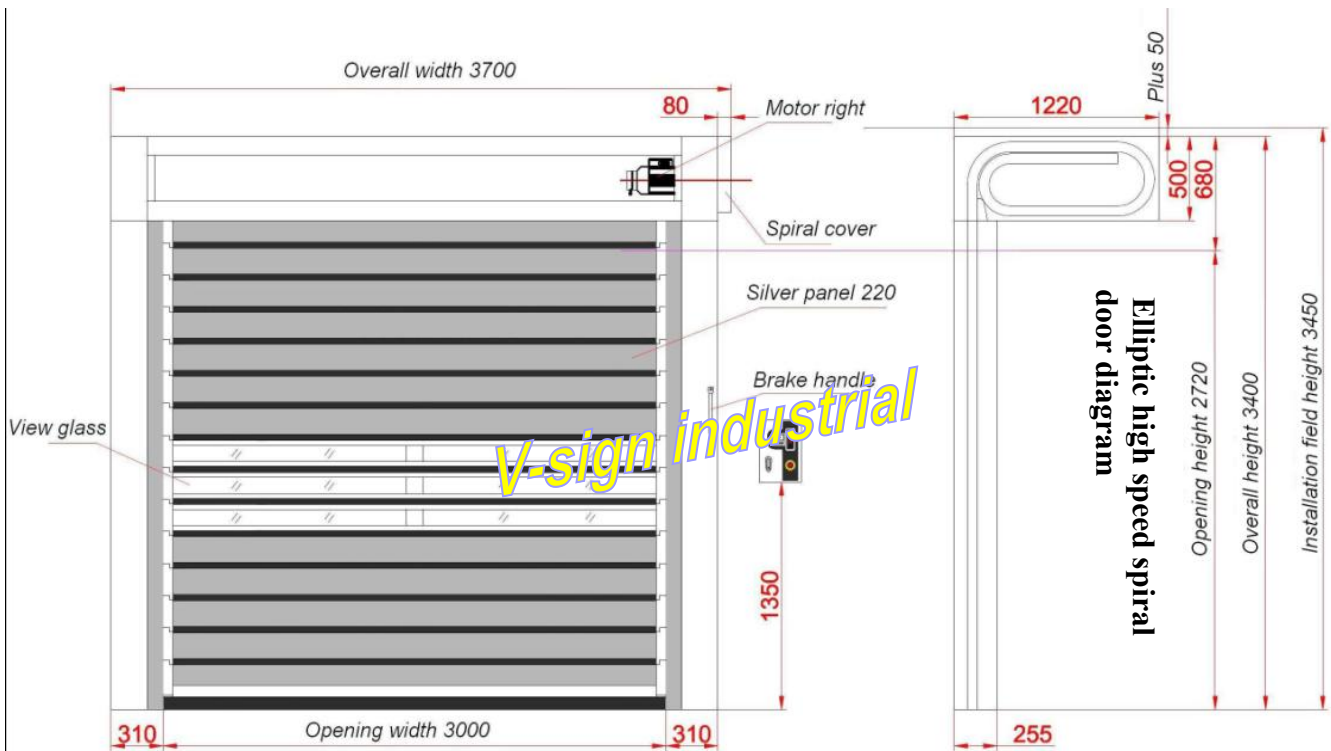




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W3000xH2720

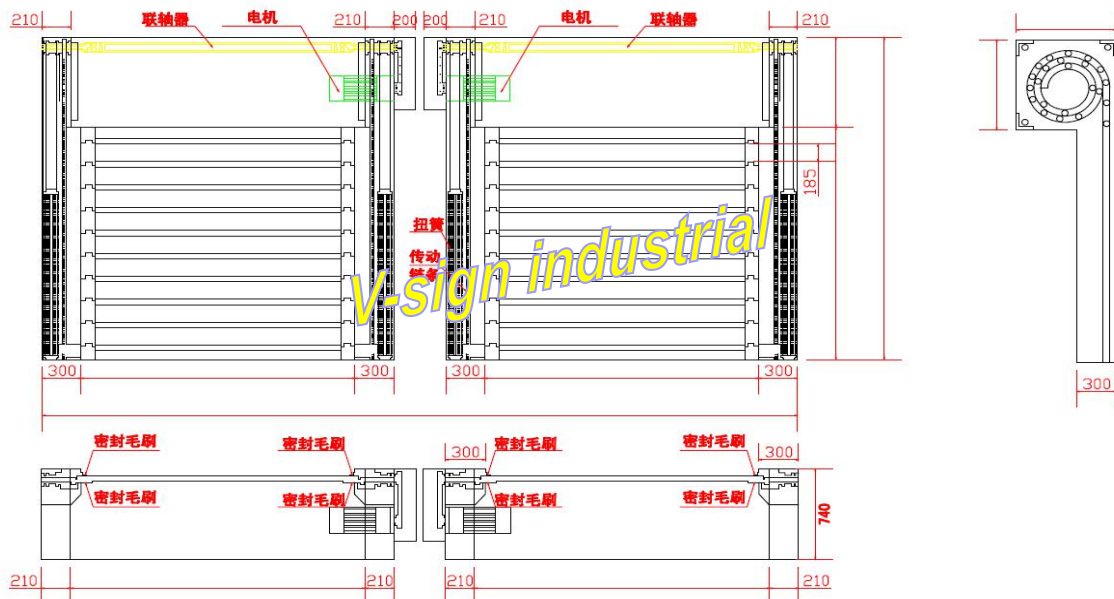
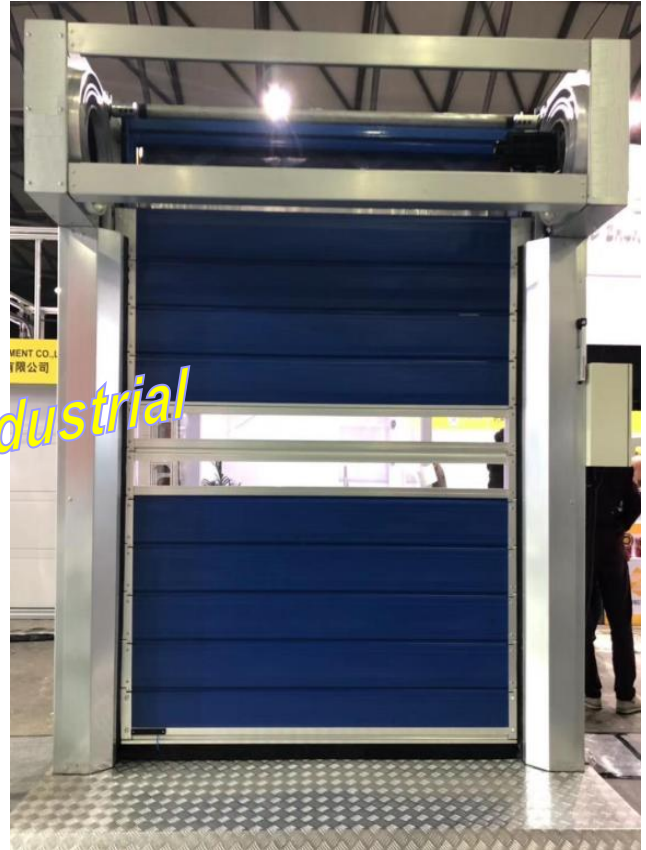


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G) SAMPLES SHOWROOM





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H) SOME PROJECTS

a) Garage doors



b) Fire service department (one key controller)





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c) Garbage stations



d) Industrial door in warehouses





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e) Logistics projects





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f) Land Rover car service centre





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g) China fast train station





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D) SEA SHIPPING PACKAGE

