

ZHUCHENG

铸诚工业用门

INDUSTRIAL  
DOOR

THERE IS A CHOICE  
WE CALL TRUST

有一种选择，我们称之为信任

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## CUSTOMIZED PROGRAMS 定制方案

功能性和整体性专属的定制——根据客户的个性化需求和场地区域的空间、结构、尺寸,进行专门测量、设计、生产和安装。

Customization for functionality and integrity -- measurement, design, production and installation are performed according to the individual needs of the customer and the space, structure and size of the site area.

- ① 可以提供超大、超宽、极限尺寸的定制方案;
- ② 可根据门洞上方和两侧的尺寸来选择门体开启方案(垂直提升门、90°翻转门、组合提升门)。

(1) We can provide customized solutions of super large, super wide and extreme size.

(2) According to the size of the door above and on both sides to choose the door body opening scheme (vertical lifting door, 90° turnover door, combination of lifting door).



超大



安全



独特



精工



定制



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# ENTERPRISE INTRODUCTION

## 企业简介

长春铸诚实业股份有限公司是铸诚集团旗下的全资子公司，成立于2002年，坐落于吉林省长春市，公司注册资金6,000万元，建有专业门国际标准化生产基地，占地面积达10.8万平方米，凭借雄厚的生产研发实力与国际先进生产设备，目前已发展成为可以提供齐全门类产品的现代化、专业化制造商。

公司自主研发生产的德式防火门、防盗门、医用门、德式多功能商务用门、玻璃楼宇门、电控楼宇门、意式装甲门、防弹门、工业门、超大隐藏防火门、超大隐藏玻璃防火门、钢质玻璃通道自由门、气密门、磁悬浮自动平移门、防辐射门、自动折叠门、无障碍自动门、自动平开门、暗藏式自动平移门、快速疏散门、防火隔断、合金隔断和防火窗等15个系列300余种产品，被广泛应用于医院、学校、机场、交通枢纽、体育场馆、商业地产等诸多领域。通过遍布全国各省市的直营销售服务网络，以国际标准服务全球客户，追求实现客户价值最大化的企业发展愿景！

Changchun Zhicheng Industry Co., Ltd. is a wholly-owned subsidiary of Zhicheng Group, founded in 2002, is located in Changchun city, Jilin Province, the company registered capital of 60 million yuan, has professional doors international standardized production base, covers an area of 108,000 square meters, with strong production and research and development strength and international advanced production equipment. At present, it has developed into a modern and specialized manufacturer that can provide a complete range of products.

Company independent research and development production of German type fire doors, security doors, medical doors, German type multifunctional business with building door, glass door, electric control building door, Italian armored door, bulletproof doors, industrial doors, large hidden fire door, steel fire door, large hidden glass glass channel free door, airtight door, automatic sliding door magnetic levitation, radiation protection, automatic folding door, barrier-free automatic door, automatic door 15 series of more than 300 kinds of products, such as flat door, hidden automatic translation door, rapid evacuation door, fire partition, alloy partition and fire window, are widely used in hospitals, schools, airports, transportation hubs, sports stadiums, commercial real estate and many other fields. Through the nationwide provinces and cities of direct sales service network, to international standards to serve global customers, the pursuit of customer value maximization of enterprise development vision!

# ZHU CHENG

“匠新”铸诚，就是秉承  
“工匠精神，不断创新”！

铸诚，甄选顶级德国门配，  
让客户直接感受最严谨、安全  
的国际水准体验。

拒绝平庸，只为高端

精心调研市场，凝聚最好资源，  
只配套服务20%高端  
市场份额。



## INTEGRATED INDUSTRIAL DOOR ADVANTAGE

### 集成工业门优势

专业客户服务团队 产品自主研发设计 先进生产设备及工艺 高效的服务响应遍布全国 智能化集成系统

Professional customer service team Product independent research and development design Advanced production equipment and technology Efficient service response throughout the country Intelligent integrated system



### 欧标工艺 European standard process

智能 多种开启方式

美观 定制化设计 整体和谐统一

稳定耐用 独家定制结构件 进口电机

操作便捷 集成化智能控制系统

安全 可选红外开启及报警装置

保温密封 根据客户需求 提供个性化配置方案

Intelligent multiple open ways

Aesthetic customized design overall harmony and unity

Stable and durable exclusive custom structure, imported motor,

Easy to operate integrated intelligent control system

Safe optional infrared opening and alarm device

Insulation sealing according to customer needs to provide personalized configuration scheme



## SERVICE PROCESS

### 服务流程

精工品质是国内智能化产品的优秀代表!

通过个性设计、柔性加工、定制生产,产品形式更加丰富!

采用国际先进技术,与国际接轨,产品质量达到国际先进水平!

Seiko quality is the outstanding representative of domestic intelligent products!

Through personalized design, flexible processing, custom production, product forms more rich!

Adopt international advanced technology, and international standards, product quality to reach the international advanced level!

1 客户设计输入



2 设计方案确定



3 商务确定



4 现场勘测



5 履约合同



6 试运行与培训



7 验收交接



8 售后服务



9 永久技术支持



专业客户服务团队  
Professional customer service team



提供定制化服务  
Provide customized services



满足客户个性化需求  
Meet the personalized needs of customers



提供不同解决方案  
Offer different solutions



建筑艺术  
Architectural art





## INDUSTRIAL DOOR SERIES 工业门系列

- |         |            |
|---------|------------|
| 1 工业折叠门 | 6 卷帘防火逃生系统 |
| 2 工业提升门 | 7 工业门推拉门   |
| 3 多段提升门 | 8 工业门平开门   |
| 4 透明提升门 | 9 机库大门     |
| 5 快速卷帘门 | 10 上折门     |



## INDUSTRIAL FOLDING DOOR

### 工业折叠门

集成式工业折叠门,自主生产研发的工业门型材、配件、门板。集成模块化组装,可变性强,施工方便,可根据地域选择轻型型材和配件,以达到合理化抗风、密封性能。

Integrated industrial folding door, independent production and development of industrial door profiles, accessories, door panels. Integrated modular assembly, strong variability, easy construction, can be selected according to the region light and heavy sections and accessories, to achieve reasonable wind resistance, sealing performance.

#### 特点 Features

- ① 门板材质:采用彩钢板、不锈钢板、铝板等;
- ② 边框材质:自主生产,热镀锌冷弯型材,铝合金型材;
- ③ 填充材料:高密度阻燃聚氨酯发泡材料,防火岩棉板;
- ④ 表面处理:门板表面加强筋条工艺(此工艺增加门板强度,外形美观);
- ⑤ 门板厚度:根据门体大小,可设计50、75、100mm厚度;
- ⑥ 颜色:常规彩板颜色,也可根据色卡颜色生产;
- ⑦ 密封装置:优质三元乙丙橡胶密封或毛刷密封装置;
- ⑧ 五金配件:根据所选型材配套专用五金、轨道、铰链等,选用配件全部防锈处理(镀锌、喷涂、氧化);
- ⑨ 驱动系统:可选国产、进口专用折叠门机及传动系统;
- ⑩ 控制系统:遥控开启、红外感应开启、雷达开启、地磁感应开启,可连接手动快速释放装置、手动开启;
- ⑪ 选配配置:应急小门、PC透视窗、钢化玻璃视窗;
- ⑫ 开启方式:双向折叠开启、单向折叠开启。

1. Door panel material: color steel plate, stainless steel plate, aluminum plate, etc.
2. Frame material: self-produced, hot dip galvanized cold bending profile, aluminum alloy profile;
3. Filling material: high density flame retardant polyurethane foam material, fireproof cotton board;
4. Surface treatment: the process of rib stripe on the surface of door panel (this process increases the strength of door panel. Beautiful appearance);
5. Door plate thickness: 50, 75 and 100mm thickness can be designed according to the size of the door body;
6. Color: the color of conventional color board can also be produced according to the color of color card;
7. Sealing device: high-quality EPDM sealing or brush sealing device;
8. Hardware accessories: according to the special hardware, track, dumpling chain, etc. matched with the selected profile, all the accessories shall be antirust treated (galvanized, sprayed and oxidized);
9. Drive system: Domestic and imported special folding door machines can be selected. And transmission system;
10. Control system: remote control on, infrared induction on, radar on, geomagnetic induction on, which can be connected with manual quick release device and manually started;
11. Optional configuration: emergency door, PC perspective window and tempered glass window;
12. Opening mode: bidirectional folding opening and unidirectional folding opening.





## 外观 Exterior

- ① 外观面板颜色通用为白灰色，特殊颜色需定制；
  - ② 颜色可以在色卡范围内定做；
  - ③ 所有配件以阳极氧化铝/镀锌/喷涂进行表面处理；
  - ④ 铝配件做表面喷涂处理。
- 1.The color of the exterior panel is generally white and gray, and special colors need to be customized;  
2.colors can be customized within the range of color cards;  
3. All fittings shall be surface treated with anodized aluminum/galvanized/sprayed;  
4.Spray the surface of aluminum fittings.

## 安全锁 Safety Lock

- ① 手动门包括内部的一个天地插锁和一个独手，锁定在折叠门的门板上；
- ② 电动门的电机自动锁定在门关闭的位置，高性能电机也允许门手拉开；带离合装置。

5.The manual door comprises an internal heaven and earth latch lock and a single hand which are locked on the door plate of the folding door;  
6.The motor of the electric door is automatically locked in the closed position, and the high-performance motor also allows the door hand to be opened; with clutch device.

## 选配 Select To Breed

- ① 单面板或双面板和所有外部铰链设施可以任选标准的RAL颜色做聚酯粉末涂层；
- ② 驱动部分使用一个安静的(开启时间根据电机可以任意设定)快速电机，安全可操控；
- ③ PC透视板或钢化玻璃透视窗；
- ④ 小门可选配逃生锁具。

1. Single or double panel and all external hinged fixtures can be selected in standard RAL color with polyester powder coating;  
2. The driving part uses a quiet (start time can be arbitrarily set according to the motor) fast motor, safe and controllable;  
3.PC perspective board or toughened glass perspective window.  
4. Optional escape lock for small door.

## 可根据安装空间选择多种开门机

Various Door Opening Machines Can Be Selected According To The Installation Space

- ① 液晶面板(多国语言)，方便安装测试；
- ② 电子限位开关、开启关闭限位精准、稳定；
- ③ 可连接手动外部释放。

1.LCD panel (multilingual), which is convenient for installation and testing.  
2.Electronic limit switch, accurate and stable on-off limit.  
3.Manual external release can be connected.

## 开启方式多样化 Diversified Opening Methods

- ① 遥控开启
- ② 刷卡开启
- ③ 地磁感应开启
- ④ 红外感应开启雷达开启

1.Remote control on  
2.Open by swiping card  
3.Geomagnetic induction on  
4.Infrared induction on radar on



## INDUSTRIAL LIFTING DOOR

### 工业提升门

提升门由大门本体、传动系统、轨道、电控系统、导向器系统等几大部分组成。具有产品质量优良、自动化程度高、运行平稳灵活、外形美观大方、造价低廉等优点。并具备防寒保温和密封功能。

The lift gate is composed of gate body, transmission system, track, electric control system and guide system. It has the advantages of excellent product quality, high degree of automation, stable and flexible operation, beautiful appearance and low cost. And has the functions of cold protection, heat preservation and sealing

#### 特点 Features

- ① 坚固耐用:板式保温提升门采用高质量的彩钢板或彩铝板,中间填充高密度聚氨酯发泡材料制成,强度高并具有良好的抗风性能。先进的防脱轨设计及灵活耐用的钢质(镀锌或白钢铝合金)铰链,保证了门体的高质量和长寿命。
- ② 高性能平衡系统:平衡系统是工业提升门的质量保证,全部采用60Si2Mn材质,使用寿命设计在5万-10万次左右。
- ③ 保温性能:工业门的特殊结构使其具有良好的保温节能性,可有效保持室内温度不会因为外界温度影响发生剧变。尤其是一些对室内温度要求较高的仓储系统,保持室内恒温更是至关重要。
- ④ 隔音效果:具有卓越的隔音性能,可有效阻挡外界声音穿透至室内。
- ⑤ 遥控操作:远距离遥控,超值享受。无需下车启动大门,轻按遥控,大门便会自动打开,驶入后,再按遥控,大门又会自动关闭上锁。
- ⑥ 超静运行:采用进口或国产工业门专用电机驱动,运行更加稳定无噪音。
- ⑦ 自动保护:关门时,门体遇到障碍物后会自动停止返回,有效保证了人、车、物不受损伤。
- ⑧ 应急开门:停电时可通过应急解锁装置轻松开门。
- ⑨ 可选装置:红外线防护系统、更安全;储电装置,停电时照常开关门;防盗报警装置。

1. Rugged and durable: the plate-type thermal insulation lift door is made of high-quality color steel plate or color aluminum plate with high-density polyurethane foam material in the middle, which has high strength and good wind resistance. Advanced anti-derailment design and flexible and durable steel (galvanized or Bai Gang aluminum alloy) hinges ensure the high quality and long service life of the door.
2. High-performance balance system: the balance system is the quality assurance of industrial lift doors, all made of 60 Si 2 Mn material, and its service life is designed to be about 50,000-100,000 times.
3. Thermal insulation performance: The special structure of industrial door makes it have good thermal insulation and energy saving, which can effectively keep the indoor temperature from drastic changes due to the influence of external temperature. Especially for some storage systems with high requirements for indoor temperature, it is very important to keep indoor constant temperature.
4. Sound insulation effect: It has excellent sound insulation performance, which can effectively prevent external sound from penetrating into the room.
5. Remote control operation: remote control with great value. There is no need to get off and start the gate. Press the remote control lightly, and the gate will automatically open. After entering, press the remote control again, and the gate will automatically close and lock.
6. Ultra-static operation: It is driven by imported or domestic special motors for industrial doors, which makes the operation more stable and noiseless.
7. Automatic protection: when closing the door, the door will automatically stop returning after encountering obstacles, effectively ensuring that people, vehicles and objects are not damaged.
8. Emergency door opening: It can be easily opened by emergency unlocking device in case of power failure.
9. Optional device: Infrared protection system, safer; Power storage device, open and close the door as usual in case of power failure; Anti-theft alarm device.

#### 材质说明 Material Description

- ① 骨架为钢结构或铝合金矩形管制作;
- ② 外装饰可以根据用户需求选用彩钢板、铝板、不锈钢板、铝塑板、聚氨酯压型板;可以选择采光形式;
- ③ 底梁具有安全气囊保护装置;
- ④ 侧轨道为钢结构,内含倒链与滑轮轨道,同时匹配密封系统;

- 1.The skeleton is made of steel structure or aluminum ally rectangular tube;
- 2.For exterior decoration,color steel plate,aluminum plate,stainless steel plate,aluminum-plastic plate,and polyurethane profiled plate can be selected according to user needs;lighting form can be selected;
- 3.The bottom beam has an safety airbag protection device;
- 4.The side track is made of steel structure,which contains the chain and pulley track,and it is matched with the sealing system

#### 适合使用范围 Usage Range

一般用在中小车库、检修车间、工业厂房、物流仓储车间,商超进出口等。

It is generally used in small and medium-sized garages, maintenance workshops, industrial plants, logistics and storage workshops, and entrances and exits of supermarkets.



## 技术参数 Technical Parameters

- ① 运行速度：6-12m/min；
- ② 最大尺寸：宽按3~8米范围内；高最大 15m范围内；
- ④ 使用温度：35°C-70°C；
- ⑤ 抗风压能力：根据当地气候及用户要求可以设计任意风压要求；
- ⑥ 电机及减速机：可以选用国产、进口专业电机；
- ⑦ 控制系统：西门子 PLC 或者其他品牌；
- ⑧ 风速度 24m/s：大门能正常工作；
- ⑨ 电控箱防护等级 IP65 级；
- ⑩ 隔声性能：>40dB；
- ⑪ 热传递系数：<2w/m2.k。

1. Operating speed: 6-12m/min;
2. Maximum size: width according to the range of 3-8 meters; 3. Maximum height 15m range;
4. The use temperature: 35°C-70°C;
5. Wind pressure resistance: according to the local climate and user requirements can be designed any wind pressure requirements;
6. Motor and reducer: can choose domestic, imported professional motor;
7. Control system: Siemens PLC or other brands;
8. The wind speed of 24m/s: the gate can work normally;
9. Electric control box protection class IP65;
10. Sound insulation performance: gt; 40dB;
11. Tick heat transfer coefficient: < 2 w/m2. K.



## 完善的六大系统 Perfect six systems

40mm厚门板双面0.42mm 钢板或0.55mm铝板,内部填充聚氨酯发泡(约48KG/m3),抗冲击力≥45kg/m,防夹手,坚固耐用,保温隔音,工业美感强。

顶部和两侧导轨装配三元乙丙密封带及U型底部密封,关门后全面密封。门板接口装有密封橡胶隔断冷热传递,减少能量损失。

扭簧为优质弹簧钢,表面经抗腐蚀性防锈处理,实现30,000次循环,订制可达5/10万次。滑轮滑轨与较链是平衡系统的重要组成部分,实现轻便顺畅运行。

进口品牌控制系统,变频智能控制开关门缓启缓停,更稳定耐用。预留多个拓展端口,满足互锁联动、自动开门及远程控制通讯等多种订制需要。

选配扭簧防断保护装置,当扭簧意外断裂时,迅过反应锁止,将下落的门体强制在20cm范围内停止;门体防坠保护装置,防止钢丝绳意外断裂门体下落;遇阻反弹的底部安全防夹装置。

丰富的增强系统,可选配视窗、门中门、创新无门槛小门、提升方式、抗风组件、遥控开门、远程控制、门板订制颜色、红外线安全保护以多种感应开门装置。

40mm thick door plate two-sided 0.42mm steel plate or 0.55mm aluminum plate, filled with polyurethane foam (about 48KG/m3), impact resistance ≥ 45kg/m, anti-clamping hand, durable, heat preservation and sound insulation, strong industrial aesthetic. The top and both sides of the guide rail are equipped with EPDM sealing belt and mouth sealing at the bottom, and fully sealed after closing. Door interface with sealed rubber partition cold and heat transfer, reduce energy loss.

The torsion spring is of high quality spring steel, and the surface is treated with corrosion resistance and rust prevention. It can realize 30,000 cycles, and can be customized up to 5/100,000 times. Pulley rail and chain are the important parts of the balance system, to achieve light and smooth operation.

Imported brand control system, frequency conversion intelligent control open and close the door slowly start and stop, more stable and durable. Multiple expansion ports are reserved to meet the requirements of interlocking, automatic door opening and remote control communication.

The torsion spring anti-breaking protection device is selected. When the torsion spring breaks unexpectedly, the door body falling is forced to stop within the range of 20cm by quick reaction locking. Door body anti-fall protection device, prevent the cable accidental fracture door body fall; Bottom safety clamp against resistance bounce.

Rich enhancement system, optional window, door in the door, innovative doorless door, lifting mode, anti-wind components, remote control door, remote control, door panel customized color, infrared security protection with a variety of induction door opening device.

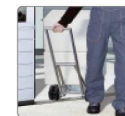
## 六大系统 Six big system



门板系统  
Door plank system



安全系统  
Security system



增强系统  
Enhance the system



密封系统  
Sealing system



平衡系统  
Balance system



控制系统  
Control system

## 开启方式 Open means



垂直提升  
steep lifting



低位提升  
Low ascension



标准提升  
Standards rise



高速提升  
High speed boost



## MULTIPLE LIFT DOORS

### 多段提升门

由门体、导轨、配重、密封、传动、动力等6个系统组成,根据洞口尺寸来确定由几块门板组成提升门即N块提升门。通常采用配重来平衡,配有配重轨道,通过开门机安全可靠运行,特点是故障率低,可以实现多块联动、电动、手动、自动化控制等;对于超大型多块门,采用起重专用卷扬机做平衡方式,省去了配重的空间。工作原理是:由钢丝绳在动、静滑轮中缠绕,通过链传动和滑轮传动实现开关门动作,使每块门板以不同的传动比速度运行,最终同时到达开、关门到位。

By the door body, guide rail, counterweight, sealing, transmission, power and other 6 systems, according to the size of the hole to determine by a few pieces of the door plate composed of lifting door that is N pieces of lifting door. Usually use counterweight to achieve balance, equipped with counterweight track, through the door machine safe and reliable operation, is characterized by low failure rate, can achieve multi-block linkage, electric, manual, automatic control; For super-large multi-block doors, the use of special hoisting winch to do dynamic balance, eliminating the space of counterweight. The working principle is: the wire rope is wound in the dynamic and static pulley, and the chain drive and pulley drive realize the opening and closing action, so that each door plate runs at different speed of transmission ratio, and finally reaches the opening and closing position at the same time.

### 特点 Features

- ① 启动和停止平稳,没有载荷冲击;
- ② 门体由多块组成,能有效利用建筑结构高度空间;
- ③ 门块可以选用防坠落葫芦;
- ④ 门的区域可以选择红外线保护系统;
- ⑤ 动力部分可以灵活选择上边或下边,方便检查维修。

1. Start and stop smoothly, without load impact;
2. The door body is composed of multiple blocks, which can effectively use the height of the building structure;
3. The door block can use anti-fall hoist;
4. The infrared protection system can be selected in the door area;
5. The power part can flexibly choose the upper or lower side, which is convenient for inspection and maintenance.



### 材质说明 Material Description

门体设计为钢结构的,非采光结构时,可以采用聚氨酯板、新型保温材料;要求采光时,才采用保温性能、透光性能好的阳光板或者新型材料;轨道由多条沟槽构成;密封材料采用三元乙丙橡胶及工业毛刷,具有耐低温、耐候性、平整光滑、弹性好特点。传动滑轮及链轮采用优质碳素钢加工、热处理。

The door body is designed for steel structure, non-lighting structure, can use polyurethane board, new insulation materials; When daylighting is required, the sun board or new materials with good thermal insulation and light transmission performance are used; The track is composed of multiple grooves; The sealing material is EPDM rubber and industrial brush, which has the characteristics of low temperature resistance, weather resistance, smooth and smooth, good elasticity. The driving pulley and sprocket are made of high quality carbon steel and heat treated.

### 技术参数 Technical Parameters

- ① 开启速度: 0.1-0.3m/s ;
- ② 使用温度: -35°C-45°C;
- ③ 抗风压能力: 根据当地气候及用户要求可以设计任意风压;
- ④ 电机及减速机: 可以选用国产、进口专业工业开门机、卷扬机;
- ⑤ 控制系统电源: 根据当地供电电压范围进行配置。

1. Opening speed: 0.1-0.3m/s;
2. Operating temperature: -35°C-45°C;
3. designed any wind pressure;
4. Motor and reducer: can choose domestic, imported professional industrial door opener, winch;
5. Control system power supply: according to the local supply voltage range for configuration.

### 适合使用范围 Usage Range

适合两侧边垛空间小,顶部高度有限的超宽、超高大门,需要根据洞口实际尺寸和机构设计。可以广泛用于大、小车库、商超门口、会展中心、工业企业厂房。

It is suitable for super wide and super high gates with small side stacking space on both sides and limited top height, which needs to be designed according to the actual size and mechanism of the opening. Widely used in large and small hangars, entrances to supermarkets, and exhibition centers, industrial enterprise factories.



## TRANSPARENT LIFT DOOR

## 透明提升门

透明提升门体由铝合金边框型材和聚碳酸酯玻璃组成，具有高透光性，抗冲击力是普通玻璃的100倍。通体全透明视窗使建筑内部更加明亮、通透，达到与陈列橱窗一样的效果，室外对室内的展示一目了然。安装后使陈列室、展厅等建筑内部采光充足、通透豁达，使参观者漫步其中心情舒畅。

门体边框均是模压成型的铝合金型材，经阳极氧化抛光处理，并可根据用户色彩要求按 RAL 色系进行颜色订制。采用和工业提升门完全一致的扭簧平衡系统，达到 30000 次左右的工作循环。

五金配件、铰链及支架轨道都由优质镀锌钢制成，并具有四边封闭的良好密封性能，进口品牌智能变频控制系统，即使停电也可转为手动轻松开启。标配为单层门板，可选配双层门板，极高的透明度和透光率，坚固耐用的门板，出色的隔热性能和时尚的设计，使透明提升门成为重要建筑设计首选的高档用门，为奔驰、宝马、保时捷、大众、尼桑等汽车品牌 4S 店提供定制化透明提升门产品与服务。

It is composed of six systems: door body, guide rail, counterweight, sealing, transmission, power, etc. According to the size of the opening, it is determined that several door panels constitute a lift door, that is, N block lift doors. The counterweight is usually used to achieve balance. The counterweight track is equipped to operate safely and reliably through the door opener. The counterweight is characterized by low failure rate and can realize multi-block linkage, electric, manual, automatic control, etc. The heavy-duty winch uses dynamic balancing method, which saves space for counterweight. The working principle is: the wire rope is wound in dynamic and static pulleys, and the door opening and closing movement is realized by chain transmission and pulley transmission, so that each door panel runs at a different transmission ratio speed, and finally reaches the opening and closing doors at the same time.







## FAST SHUTTER DOOR 快速卷帘门

快速卷帘门拥有很高的可靠性、实用性与无与伦比的工作效率，合理的设计最大程度降低了产品的故障率，并确保了全方位的安全防护。快速卷帘门可以防止外人侵入的同时又可抵御天气变化，可以隔绝室内外空气对流，广泛应用于频繁出入的通道。

Hard fast rolling door has high reliability, practicability and unparalleled working efficiency. Reasonable design reduces the failure rate of products to the greatest extent and ensures all-round safety protection. Hard and fast rolling doors can prevent outsiders from invading and resist weather changes at the same time, and can cut off indoor and outdoor air convection, so they are widely used in frequent passages.

## 产品特点 Product Features

- ①快速卷帘门宽度1250mm-5000mm，高度2000mm-7500mm；开启速度1.2m/s-2.5m/s，可调；最高可达5.88m/s；关闭速度不低于0.6m/s，可调；
- ②快速卷帘门采用双螺旋蜗轮导轨，使门体运行更安静、平稳。承载力大大增加，减少摩擦，运行更快速，卷起时门板与连接件间均无接触、无摩擦、无磨损。开关顺畅、速度快，提高了门体的使用寿命；
- ③抗风性能为3.5kpa，达到国际6级，即抗风等级12级（120km/h）；
- ④铝合金保温门板厚度不小于43mm，表面经阳极氧化加有机着色处理，内部填充聚氨酯（不含CFC）工业保温材料。通过软连接胶条将门板间进行密封，软连接部分折叠寿命达百万次以上；
- ⑤铰链承重方式设计使门帘结合处不受力，门板之间不接触，长时间使用后可保持平整性；门板间采用三元乙丙抗寒密封胶条进行密封，能有效隔绝温度及降低能量流失，具有很好的密封性、保温性及隔音性；
- ⑥承重轴承采用自动调芯，双滚针轴承，此轴承的抗压能力是普通轴承的3倍，且在日常应用过程中建筑结构发生劣性变形时不影响门体的正常运行，轴承有自我调节功能，可快速响应偏芯传动而不会产生异响；
- ⑦电机驱动系统采用工业门伺服电机系统，稀土永磁同步电机；配置应急手动开启装置；
- ⑧停电时电控系统可随时打开电机刹车，可借助平衡系统将门体托起，可有效解决因停电或故障而引起的门体不能开启的问题。

1. 1250mm; Opening speed 1.2m/s-2.5m/s, adjustable; Up to 5.88m/s; The closing speed is not less than 0.6m/s, adjustable;  
 2. The fast rolling shutter door adopts double spiral worm gear guide rail to make the door run more quietly and smoothly. The bearing capacity is greatly increased, the friction is reduced, and the operation is faster. When the door is rolled up, there is no contact, friction and wear between the door and the connector. Smooth switch, fast speed, improve the service life of the door body;  
 3. The wind resistance performance is 3.5kpa, reaching international level 6, that is, the wind resistance level 12 (120km/h);  
 4. The thickness of the aluminum alloy insulation door is not less than 43mm, the surface is treated by anodizing and organic staining, and the internal filling is polyurethane (excluding CFC) industrial insulation material. The door panels are sealed by the soft connection rubber strip, and the folding life of the soft connection part is more than one million times.  
 5. Hinge load-bearing design so that the curtain joint is not stressed, there is no contact between the door panels, and the leveling can be maintained after a long time of use; 6. The door panels are sealed by epDM cold resistant sealing rubber strip, which can effectively isolate temperature and reduce energy loss, and has good sealing, heat preservation and sound insulation.  
 7. The bearing adopts automatic core adjustment, double needle roller bearing, the compressive capacity of the bearing is 3 times of the ordinary bearing, and in the daily application process of building structure occurs bad deformation does not affect the normal operation of the door body, bearing has self-regulating function, can quickly respond to the core drive without abnormal sound;  
 8. Motor drive system using industrial door servo motor system, rare earth permanent magnet synchronous motor; Equipped with emergency manual opening device;  
 The electric control system can open the motor brake at any time when the power failure, can use the balance system to lift the door body, can effectively solve the problem caused by power failure or failure of the door body can not open.





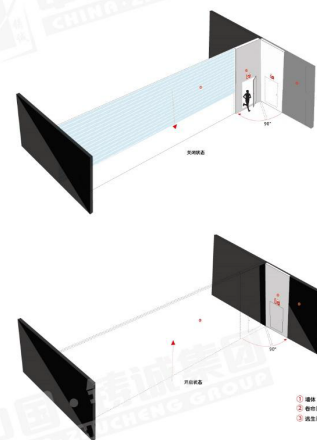


## OVERSIZED HIDDEN FIRE SHUTTER ESCAPE DOOR

### 超大隐藏式防火卷帘逃生门

2021年,铸诚重磅推出了具有里程碑意义的“防火逃生卷帘门系统”,彻底解决了目前市场卷帘门产品应用中“可防火,不逃生”的短板,从根本上改变防火分区建设市场格局;暗藏式门板特设逃生门,配合双层防火卷帘,实现大跨度空间防火的同时,解决了被困人员逃生难题;常态下暗藏逃生门与集成墙体融为一体,防火卷帘系统收至天花,呈现无障碍超大的平面空间。

In 2021, Zhucheng launched a landmark “fire escape rolling shutter door system”, which completely solved the short board of “fire escape, not escape” in the current market application of rolling shutter door products, and fundamentally changed the market pattern of fire partition construction; Hidden door panel specially designed escape door, with double fire shutter, to achieve large span space fire prevention, at the same time, to solve the problem of escape trapped personnel; Under normal conditions, the hidden escape door is integrated with the integrated wall, and the fireproof rolling curtain system is closed to the ceiling, presenting a barrier-free large plane space.



### 火灾发生时 At The Time Of Fire

- ① 电磁吸断电防火门自动关门同时折叠扇旋转90°,大门自动上插插,旋转门一端压住自动插开关;
- ② 防火门关闭后,同时触动卷帘门开关卷帘门落下;
- ③ 人员可通过逃生门迅速逃离;
- ④ 火灾警报解除时切换电源开关防火卷帘门自动升起,手动折叠小扇,自动插打开,同时旋转开启大防火门吸附到墙面电磁吸。

1. At the same time, the folding fan rotates 90 degrees, the door is inserted automatically, and one end of the revolving door presses the automatic plug switch;
2. After the fire door is closed, the rolling shutter door switch is triggered at the same time, and the rolling shutter door falls down;
3. People can quickly escape through the escape door;
4. When the fire alarm is released, switch the power switch, the fire shutter door will automatically rise, manually fold the small fan, automatically plug in and open, and at the same time, rotate to open the large fire door, which will be absorbed to the wall.

## INDUSTRIAL SLIDING DOORS

## 工业推拉门

## 特点 Features

- ① 有下承重方式、有上承重方式；
- ② 下承重，门体运行阻力小，上导轨起导向作用；地轨道安装复杂；可选用开门机或电机；
- ③ 上悬挂推拉门，结构简单，门体运行阻力小，下导轨起到导向作用；对建筑框架强度刚度承载能力高，动力可选标配开门机或者匹配电机传动系统；
- ④ 单扇单侧推拉、多扇单侧、多扇双侧推拉，运行方式多种可根据用户需要确定；
- ⑤ 优化动力工作原理，降低制造成本。

1. There are lower load-bearing mode and upper load-bearing mode.
2. The lower bearing, the lower resistance of the door body and the upper guide rail play a guiding role; the installation of the ground track is complex; the door opener or motor can be selected.
3. The upper suspension sliding door has simple structure, small running resistance of the door body, and the lower guide rail plays a guiding role; it has high bearing capacity for the strength and rigidity of the building frame, and the power can be selected as the standard door opener or matched with the motor drive system.
4. Single leaf single side push-pull, multiple leaf single side, multiple leaf double sides push-pull, various operation modes can be determined according to user needs.
5. Optimize power working principle and reduce manufacturing cost.



## 材质说明 Material Description

- ① 外表面可采用彩钢板、铝板、不锈钢板、铝塑板、阳光板、内部采用钢结构为龙骨；
- ② 所有钢结构件，严格按照ISO9001质量管理体系，钢结构制作标准来检验，确保合格出厂；
- ③ 涂装达到国家标准，确保使用寿命；
- ④ 采光窗，可选择钢化玻璃、阳光板、PC耐力板、夹胶玻璃等；
- ⑤ 密封，三元乙丙橡胶或毛刷；对待气密性高的要求可以选择充气密封（选配）；
- ⑥ 雨搭，可以外装饰彩钢板或其他材料。

1. Color steel plate, aluminum plate, stainless steel plate, aluminum plastic plate, sunlight plate can be used for the outer surface, and steel structure as keel can be used for the inner surface.
2. All steel structure parts must be inspected strictly in accordance with ISO9001 quality management system and steel structure manufacturing standards to ensure qualified delivery.
3. The coating meets the national standard to ensure the service life.
4. Daylighting, window, can choose toughened glass, sunshine board, PC endurance board, laminated glass, etc.
5. Sealing, EPDM or brush; for the high requirement of air tightness, you can choose inflatable sealing (optional).
6. Rain lap can be decorated with color steel plate or other materials.

## 技术参数 Technical Parameters

- ① 开启速度：0.1-0.3m/s；
- ② 使用温度：-40℃-70℃；
- ③ 抗风压能力：根据当地气候及用户要求可以设计任意风压要求；
- ④ 电机及减速机：可以选用国产、进口电机；
- ⑤ 控制系统电源：根据当地供电电压范围进行配置；
- ⑥ 大门尺寸：宽无限、高度最高可做26.5米。

1. Opening speed: 0.1-0.3m/s;
2. Operating temperature: -40℃-70℃;
3. Wind pressure resistance capacity: according to the local climate and user requirements, you can design any wind pressure requirements;
4. Motor and reducer: domestic and imported motor can be selected;
5. Control system power supply configured according to the local power supply voltage range;
6. Gate size: Width is unlimited and the height can up to 26.5m.





## INDUSTRIAL FLAT DOOR

### 工业平开门

集成式平开密闭门，自主研发、生产的工业门型材（重型料、轻型料、密封料）配件、门板。根据地域及门体大小选择轻重型门体，集成化模块组装，省时、省力。抗风性能、密封性能优良，可满足不同施工场所需求。

外用工业门型材，采用镀锌板或不锈钢及铝合金冷弯挤压成型的专用加强门边，门扇可采用镀铝锌彩涂板、不锈钢板或铝合金板，内填高压聚氨酯发泡或防火岩棉。

Integrated flat open closed door, independent research and development, production of industrial door profiles (heavy material, light material, sealing material) accessories, door panels. According to the region and the size of the door body to choose light and heavy door body, integrated module assembly, save time and effort. Wind resistance, excellent sealing performance, can meet the needs of different construction sites. External use of industrial door profiles, galvanized sheet or stainless steel and aluminum alloy cold bending extrusion molding of special strengthening the door, the door can be galvanized galvanized color coated plate, stainless steel plate or aluminum alloy plate, filled with high-pressure polyurethane foam or fireproof rock wool.



#### 材质说明 Material Description

- ①外表面可采用彩钢板、不锈钢板，内部采用钢结构为龙骨；
- ②门板内置骨架55\*35\*2.0方管组合焊接，井字形拼接设计；
- ③门板两侧覆盖镀锌钢板，内部填充岩棉保温层；门框镀锌钢板冷弯成型，门扇、门框表面喷涂处理；
- ④门扇四周及中缝采用专用橡胶条密封；
- ⑤组装工艺，铰链与门板之间采用预埋钢板设计，高强螺栓固定，增加门板的耐用性；
- ⑥门扇与门框，配上下插，增加抗风强度。锁具配欧标锁具，大型闭门器。

- 1.The outer surface can be used color steel plate, stainless steel plate, internal steel structure for the keel;
- 2.Door panel built-in skeleton 55\*35\*2.0 square pipe combination welding, well form splicing design;
- 3.Both sides of the door plate are covered with galvanized steel plate, and the inside is filled with rock wool insulation layer; Door frame galvanized steel plate cold bending forming, door fan, door frame surface spraying treatment;
4. Special rubber strips are used to seal the doors around and in the seams;
5. Assembly process, the hinge and the door between the embedded steel plate design, high strength bolt fixed, increase the durability of the door;
- 6.Door and door frame, with up and down inserted, increase the wind strength. Lock with European standard lock, large door closers.

#### 特点 Features

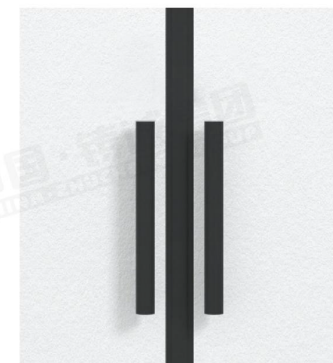
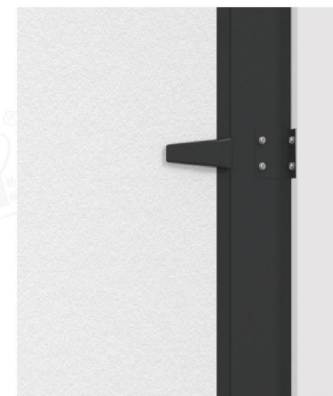
- ① 平开门门型分为单开、双开两种类型；
- ② 平开密闭门由门框、铰链、门扇上下转轴、电动插销、开门锁、密封件等组成；
- ③ 电机有三种：地埋式电机、臂式电机、地滚式电机；
- ④ 保温性好、抗风力强、机械故障少、经久耐用、操作方便；
- ⑤ 可选配小门和观察视窗。

- 1.The Flat open sealed door type is divided into single door, double door two types;
- 2.Flat open sealing door is composed of door frame, hinge, door fan up and down shaft, electric latch, door lock, seal and so on;
- 3.There are three kinds of motors: buried motor, arm motor and ground rolling motor;
- 4.It is good heat preservation, strong wind resistance, less mechanical failure, durable, easy to operate;
- 5.Optional small door and viewing window.

#### 技术参数 Technical Parameters

- ① 开启速度：0.1-0.3m/s；
- ② 使用温度：-40℃-70℃；
- ③ 抗风压能力：根据当地气候及用户要求可以设计任意风压要求；
- ④ 电机：可以选用国产、进口电机；
- ⑤ 控制系统电源：根据当地供电电压范围进行配置；
- ⑥ 大门尺寸：适用于10m<sup>2</sup>-40m<sup>2</sup>，宽度6m以下大门。

- 1.Opening speed: 0.1-0.3m/s ;
- 2.Operating temperature: - 40 °C- 70 °C;
- 3.Wind pressure resistance capacity:according to the local climate and user requirements,you can design any windpressure requirements;
- 4.Motor and reducer: domestic and imported motor can be selected;
- 5.Control system power supply configured according to the local power supply voltage range;
- 6.Gate size: Applicable to 10㎡ - 40㎡, width 6m below the door.



## HANGAR DOOR 机库大门

飞机维修机库和飞机装备工厂最大产品。

特点：下承重，上部安装导向器。

可采用多种结构：单轨，双轨，多轨。门扇：双扇，多扇。运行方式：单侧，双侧运行，互为门库。多扇独立运行，多扇联动运行，限位配置和安全防护装置。防止门扇之间撞击，保护人员和物品安全。

Aircraft maintenance hangar and aircraft equipment factory largest product.

Features: lower load bearing, upper installation guide.

Can be used in a variety of structures: single track, double track, multi-track. Door: double, multiple. Operation mode: one side, two side operation, mutual door library. Independent operation of multiple fans, combined operation of multiple fans, limit configuration, and safety protection device. Prevent the collision between the doors to protect the safety of personnel and goods.

### 适合使用范围 Usage Range

推拉式机库门有多种形式，多适用于机场机务维修中心、船舶维修库、港口、大型工业厂房。  
There are many types of sliding hangar doors, which are mostly suitable for airport locomotive maintenance centers, ship maintenance garages, ports, and large industrial plants.



## 特点 Features

- ① 可实现就地检测与集中控制和独立控制;
- ② 下承重形式、上部安装导向器;对于轻型的机库,可以选择上承重下导向;
- ③ 可实现多种结构,轨道可采用单轨、多轨,门扇可分为双扇、多扇组合方式;
- ④ 运行方式有单侧、双侧、互通;可以实现单独控制、集中控制;
- ⑤ 大门拥有开关门限制保护及人防保护;
- ⑥ 设计依据:业主提供功能性要求、研发计算书、行业标准及规范。

1.Can realize local detection and centralized control and independent control;  
2.The lower load-bearing form,the upper guide is installed,for light hangars, you can choose the upper load-bearing and lower guide  
3.A variety of structures can be realized,the track can use single track,multi track, door leaf can be divided into double fans,multi fans combination;  
4.The operation mode includes single-side,double-sides and intercommunication; individual control and centralized control can be realized;  
5.The gate have limit protection for opening and closing the door, and civil air defense protection;  
6.Design basis:The owner provides functional requirement,R&D calculations,industry standards and specifications.



## 技术参数 Technical Parameters

- ① 外形尺寸:依据用户要求(最高可以做到 30m,最宽无限);
- ② 电源:依据所在国家供电标准;
- ③ 开门速度:6m/min-12m/min;
- ④ 每扇门重量:依据设计;
- ⑤ 门扇数量:依据设计;
- ⑥ 风载荷:32m/s~60m/s(最大可以达到2.56kN/m<sup>2</sup>);
- ⑦ 控制系统:集中控制、单独控制相结合;
- ⑧ 隔声系统:大于 40dB~100 dB;
- ⑨ 门的空气密闭性:2.5m<sup>3</sup>/L-h(10pa 压力差) III 级;
- ⑩ 采光面积:依据用户要求;
- ⑪ 抗震设防烈度:8 度,可以依据用户要求;
- ⑫ 环境温度:-35℃-70℃。

1.Dimensions: According to user requirements (the highest height can be 30m,the widest is unlimited);  
2.Power supply: According to the national power supply standard ;  
3.Door opening speed: 6m / min—12m / min;  
4.Weight of each door: according to design ;  
5.Number of doors: according to design;  
6.Wind load:32m/s~60m/s [Maximum can reach 2.56kN/m<sup>2</sup>];  
7.Control system:a combination of centralized control and individual control ;  
8.Sound insulation system: greater than 40dB~100 dB ;  
9.The air tightness of the door:2.5m<sup>3</sup>/L-h(10pa pressure difference) III level;  
10. Lighting area: according to user requirements ;  
11.Earthquake fortification intensity:8 degrees,which can be determined according to user requirements;  
12.Environment temperature: -35℃-70℃.

## 材质说明 Material Description

- ① 外表面可采用彩钢板、铝板、不锈钢板、阳光板、钢化玻璃、铝塑板,内部采用钢结构为龙骨;
- ② 所有钢结构件,严格按照设计计算书要求选型采购;
- ③ 涂装达到国家标准,确保使用寿命;
- ④ 采光部分,可选择钢化玻璃、阳光板、PC耐力板、夹胶玻璃等材料,进行组合配置,达到客户要求的透光率。

1.The outer surface can use color steel plate,aluminum plate,stainless steel plate,sunlight plate,tempered glass, aluminum-plastic plate, and the internal steel structure is keel;  
2.All steel structural parts are strictly selected and purchased in accordance with the requirements of the design calculationBook;  
3.The coating reaches national standards to ensure service life;  
4.For the lighting part,you can choose tempered glass,sunlight board,PC endurance board,laminated glass and other materials to make combination configuration to achieve the light transmittance required by customers.

## 运行方式 Operation mode

以下是推拉式机库门多种组合形式和运行方式示意图

The following is the schematic diagram of various combination forms and operation modes of push-pull hangar doors.

四扇双轨 互为门库



六扇三轨 互为门库



八扇三轨 互为门库



双扇双轨 互为门库



三扇三轨 互为门库



四扇四轨 互为门库



多扇多轨 两侧运行 可联动



多扇多轨 双向运行 可联动



多扇多轨 双向运行 可联动





## THE FOLDING DOOR

## 上折门

上折门由钢制或铝制骨架构成,在辅以匹配的外装饰面装饰,也可直接用工业门板制作。具有自动开启、关闭、锁门机构,可遥控控制。开启方式为上下两块门扇通过提升机构将门扇向外折起。上折门的开启方式适合大跨度门口和门口上部及两侧没有空间的建筑物。上折门只占用上部空间,不占用地面空间,是通用直升机场库,大型车库门首选方案,同时也适用于幕墙结构的建筑物。它的主要优点是外饰美观、易于融合建筑物风格,运行安全可靠,噪音低。

The upper folding door is made of steel or aluminum skeleton, which is decorated with matching external decorative surface. It can also be made directly from industrial door panels. With automatic opening, closing and locking mechanism, it can be controlled remotely. The opening mode is that the upper and lower door leaves are folded outwards through the lifting mechanism. The opening mode of the upper folding door is suitable for large-span doorways and buildings with no space on the upper and both sides of the doorways. The fold-up door only occupies the upper space, but does not occupy the ground space. It is the first choice for general helicopter hangars and large garage doors, and it is also suitable for buildings with curtain wall structure. Its main advantages are beautiful exterior decoration, easy integration of building style, safe and reliable operation and low noise.





## 产品特性 product features

- ①该系列上折门充分发挥骨架结构优化水平,减少门体自重确保内部受力杆件达标;
- ②当打开后不占用有效使用空间,具有雨棚和遮阳的使用功能,当关闭大门后,可以确保完整的密封和与建筑物融为一体的效果;
- ③造型独特,可以任意发挥设计包含折叠分割线的定位,绝对是建筑师的不二之选;
- ④在结构设计上,也是灵活多变,既可以满足重型超大幕墙也可以满足小型大门;材质上也是结合客户和建筑师的需要而设定;
- ⑤我们的产品规范定义:结构紧凑、框架标准、耐腐蚀的所有缝隙密封性良好、可靠的安全限位、合理的运行速度匹配,以及防坠落;
- ⑥折叠扇数,一般为2扇,对于超大跨度,可以考虑活动移动立柱来解决;
- ⑦配套专用折叠门动力系统,对于大跨度的根据实际可以设定N台电动机(具有手动操作能力),电机制动稳定可靠;
- ⑧根据需要可以远程集中控制,并设定防火信号输入条件等应急措施;
- ⑨完全可以接受任何需要的任何功能的非标定制专属产品,满足高端用户的高品质需要。

- 1.This series of bi-folding doors give full play to the optimization level of the skeleton structure,reduce the weight of the door body to ensure that the internal force rods met the standards;
- 2.When opened,it does not occupy effective use space,and has the function of awning and shading.When the gate closed,can ensure the complete sealing and the effect of integration with the building;
- 3.With unique shape,it can display the position of design including folding and dividing line,which is absolutely the best choice for architects;
- 4.In terms of structural design,it is also flexible and variable,which can met both heavy and large curtain walls and small doors;the material is also set according to the needs of customers and architects;
- 5.Definition specifications of our products:compact structure, standard frame,corrosion-resistant sealing of all gaps,good and reliable safety limit, reasonable operation speed matching,and structural design of anti-fall and closed and opened mechanism and so on unique functions;We will satisfy customer requirements;
- 6.Folding door are generally two fans.For large spans,consider movable columns to solve;
- 7.Equip with special folding door power system,for large spans,,N motors(with manual operation capability) can be set according to the actual situation, and the motor brake is stable and reliable;
- 8.According to the needs,remote centralized control can be set,and emergency measures such as fire signal input conditions can be set;
9. We are fully accept any non-standard customized products with special needs to satisfy the high-end customers' needs.



## 材质说明 Material Description

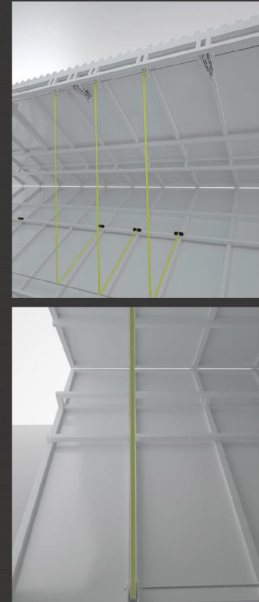
- ①骨架为钢结构,通常选用Q235,内部可以填充保温材料,隔热性、隔音性很好;根据当地环境温度也可选择单层压型钢板材;
- ②外装饰可以根据用户需求选用彩钢板、铝板、不锈钢板、铝塑板、聚氨酯压型板;可以选择采光形式;
- ③优质纤维编制吊装带;
- ④电气元件采用优质高可靠运行品牌器件;

- 1.The skeleton is a steel structure,usually using Q235;The interior can be filled with thermal insulation materials, and the heat insulation and well sound insulation; according to the local environment temperature, single-layer color steel plates;
- 2.For exterior decoration,color steel plate,aluminum plate,stainless steel plate,aluminum-plastic plate,and polyurethane profiled plate can be selected according to user needs; lighting form can be selected;
- 3.High-quality fiber braided lifting belt;
- 4.The electrical components use high-quality and reliable operating brand;

## 技术参数 Technical Parameters

- ①开启速度: 6-12 m/min;
- ②最大尺寸: 宽按照用户要求;
- ③工作电压: 380 v / 50 hz;
- ④安装有防坠落部件;
- ⑤抗风压能力:  $\geq 700\text{pa}$ ;
- ⑥电机及减速机: 可以选用国产、进口专业电机;
- ⑦电控箱防护等级 IP55 级;
- ⑧隔声性能:  $>40\text{dB}$ ;
- ⑨底边装有限位机构(选用)。

1. Opening speed: 6-12 m/min;
2. Maximum size: width according to user requirements;
3. Working voltage: 380V/50Hz;
4. With anti-fall components;
5. Wind pressure resistance capacity:  $\geq 700\text{pa}$ ;
6. Motor and reducer: domestic and imported professional motors can be selected;
7. The protection level of the electric control box is IP55;
8. Sound insulation performance:  $> 40\text{dB}$ ;
9. Install the limited position mechanism on the bottom (optional).



## 特点 Features

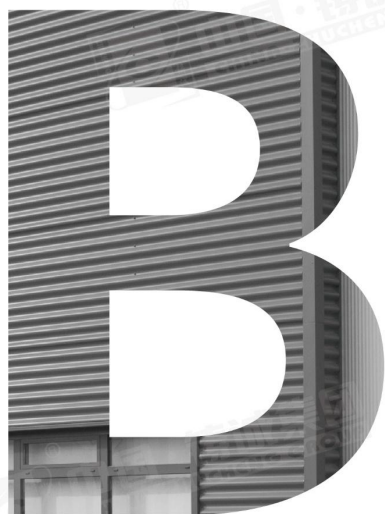
- ①上折门根据设计计算,由N条提升带在同一轴上的滚筒同步提升;
- ②运行平稳、噪音低、开关门有有声光提示;
- ③大门密封全方位实现,门密闭性、保温性、降噪性很好;
- ④安全系统高;安全限位系统;红外线系统(可选);
- ⑤可以实现电动开关大门。

1. According to the design calculation, the Bi-folding Door is synchronously lifted by rollers with N lifting belts on the same axis;
2. Stable operation, low noise, sound and light prompts for opening and closing doors;
3. The door can realize sealing in all directions, the door has good airtightness, thermal insulation and noise reduction;
4. High safety system; safety limit system; infrared system (optional);
5. Electric switched gate can be realized.

## 适合使用范围 Usage Range

上折门适用大跨度门口,尤其适用门口上部及两侧没有空间的建筑物,可广泛应用于工业厂房车间、机库、车库等场合;对外饰面有特色要求的比如商业建筑幕墙及其它洞口门或者窗。

The Bi-folding Door is suitable for large-span doorway, especially for buildings with no space at the upper part and both sides of the doorway. It is widely used in industrial workshops, hangars, garages, etc.; external decoration has special requirements such as commercial building curtain walls and other openings Door or window.



## FIRE SHUTTER SERIES 防火卷帘系列

- 1 钢制防火卷帘
- 2 复合型水平钢制防火卷帘
- 3 特级防火卷帘
- 4 特级防火卷帘(折叠提升)
- 5 挡烟垂壁





## STEEL FIREPROOF ROLLING SHUTTER 钢制防火卷帘

钢制防火卷帘，不需要水幕保护，由内外双帘板组成。中间填充防火保护材料。帘板采用镀锌钢板，平整美观。广泛适用于高级宾馆、酒店图书馆、影剧院、大型商场、车站等建筑。

Steel fireproof roller curtain, no need for water curtain protection, composed of inside and outside double curtain plate. The middle is filled with fire protection material. Curtain board adopts galvanized steel plate, smooth and beautiful. Widely used in high-end hotels, hotel libraries, theaters, large shopping malls, stations and other buildings.



## 技术性能 Technical performance

耐火极限  $\geq 3$  小时;

热辐射强度:  $0.39W/cm^2$ ;

防烟性能: 压差  $20Pa$  时, 帘板烟量小于  $0.2M^3/(m^2 \cdot min)$ ;

抗风压性能: 80 型帘板,  $B=3m$  跨中挠度  $\leq 45mm$ ;

启闭速度: 启闭速度为  $2m/min - 7.5m/min$ 。自重下降速度不小于  $9.5m/min$ 。

Technical performance;

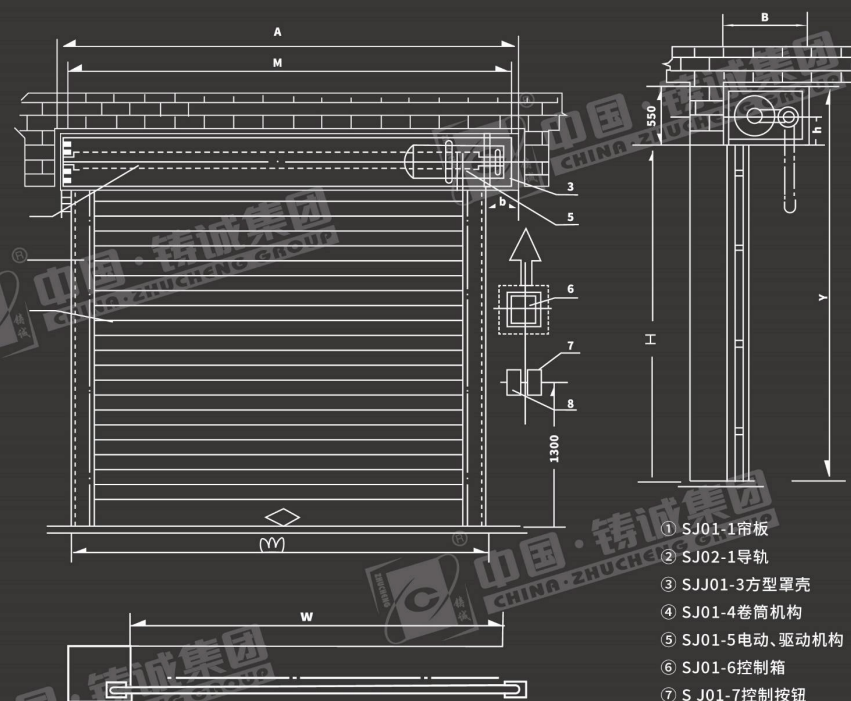
Fire resistance limit  $\geq 3$  hours;

Thermal radiation intensity:  $0.39W/cm^2$ ;

Smoke resistance: At  $20Pa$  pressure difference, curtain smoke is less than  $0.2m^3/(m^2 \cdot min)$ ;

Wind pressure resistance: 80-type curtain plate,  $B=3m$  mid-span deflection  $\leq 45mm$ ;

Opening and closing speed: opening and closing speed is  $2m/min - 7.5m/min$ . The rate of self-weight decline is no less than  $9.5m/min$ ;



## COMPOSITE HORIZONTAL STEEL FIRE SHUTTER

### 复合型水平钢制防火卷帘

水平钢制防火卷帘是水平方向运行。产品主要应用于门洞超宽，或安装空间受限无法采用垂直卷帘，或是门洞成曲线或多方向形防火隔断场所。适用大跨度、曲线形如中庭、地库自动扶梯洞口等平面防火分隔区域。导轨可根据防火区域弯曲设计形成防火封闭。耐火极限大于3小时。

Composite horizontal steel fire shutter

Horizontal steel fire shutter is horizontal operation. Products are mainly used in the door super wide, or installation space can not use vertical shutter, or the door into a curved or multidirectional fire partition place. Suitable for large span, curved shape such as atrium, floor, escalator openings and other plane fire separation areas. The guide rail can be designed according to the bending of fire protection area to form fire protection closure. Fire resistance greater than 3 hours.



## SUPER FIRE SHUTTER

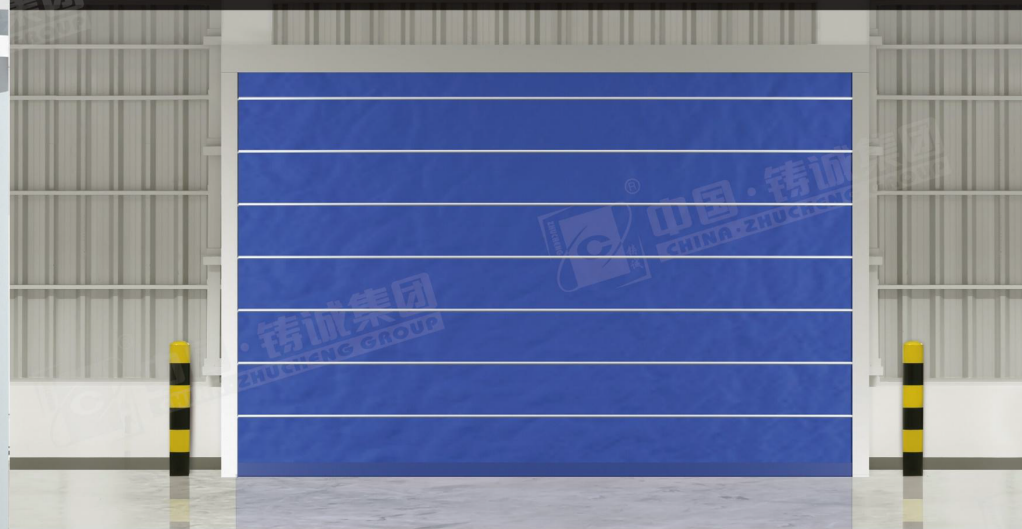
### 特级防火卷帘

双轨双帘结构，传动机构用一台卷门机分别带动两根平行卷轴同时起降，两部帘面之间有一定空气隔热层。帘部采用硅酸铝纤维布外加强耐火能力的胶层为基材，外附抗热辐射布，内部为硅酸铝纤维毯加强隔热效果。耐火时间大于4小时。背火面平均温升小于55.6℃。单点最高温升低于63.6℃可代替防火墙。

防火卷帘具有手、电动控制、联动控制，自动下放等功能。可按用户要求选用多种颜色装饰帘面。

Double-track double-curtain structure, the transmission mechanism uses a door winder to distinguish and drive two parallel spool colleagues to take off and land, there is a certain air insulation layer between the two curtain surfaces. For the face, aluminum silicate fiber cloth is used as the base material to strengthen the fire resistance outside, with heat radiation resistant outside, and aluminum silicate fiber blanket inside to strengthen the heat insulation effect. Fire resistance time is more than 4 hours. The average temperature rise of backfire surface is less than 55.6℃. Single point maximum temperature rise below 63.6℃ can replace the firewall.

Fire shutter with hand, electric control, linkage control, automatic down and other functions. According to the user's requirements to choose a variety of colors decorative cloth.



## 技术参数 Technical Parameters

防烟性能：防火防烟卷帘帘面两侧压差为20Pa时，在标准状态下（20℃，101.325kPa）的漏烟量不大于0.2m³/(m²·min)。

运行平稳性：帘面在导轨内运行平稳，无脱轨和明显倾斜现象，双帘面卷帘的两个帘面应同时升降，两个帘面之间的调试应不大于50mm噪音，防火卷帘启闭运行的平均噪音不大于85dB。

温控释放性能：防火卷帘配备温控释放装置，释放装置的感温元件周围温度达到73±0.5℃时，释放装置启动，卷帘依自重下降关闭。

耐火性能：TF3类，耐火极限≥3.00H。

Smoke protection: When the pressure difference between the two sides of the fire prevention and smoke curtain is 20Pa, the leakage of smoke under the standard condition (20℃, 101.325kPa) shall not be greater than 0.2m³/(m²·min).

Smooth operation: the face runs smoothly in the guide rail without derailment and obvious tilt. The two curtain faces of the double curtain face should rise and fall at the same time, and the debugging between the two curtain faces should not be greater than 50mm

Noise: the average noise of fire shutter operation is no more than 85dB

Temperature control release performance: temperature control release fire shutter, release the heat element weeks 温度 of 73 ± 0.5 °C, the tripping device starts, shutter in accordance with the weight of falling off.

Fire resistance: TF3, fire resistance limit ≥ 3.00h.



## EXTRA FIRE SHUTTER (FOLDING LIFT)

## 特级防火卷帘 (折叠提升)

折叠提升式特级防火卷帘是无机布特级防火卷帘同类产品, 为超大跨度防火分区设计, 除了无机布特级防火卷帘有点歪, 还有超大跨度和任意形状分隔的特性, 是豪华建筑场所和超大跨度建筑场所防火分区的优选产品。

根据防火分区跨度大、有转弯、弧形等集合形状特点而设计的特级防火卷帘, 卷帘结构和无机纤维基特级防火卷帘一样, 只是对传动方式和升降启闭方式进行改进, 从而达到提升跨度大, 满足特殊分区形状的目的, 运行平稳, 实用美观。

Folding and lifting type extra class fire shutter is inorganic bute class fire shutter similar products, designed for the very large span fire partition, in addition to inorganic Bute class fire shutter a bit skewed, there are super span and arbitrary shape of the characteristics of separation, is a luxury building site and the very large span building site fire partition preferred products.

According to the fire zone span large collection, such as turning, arc shape characteristic and design of the super fire shutter, and inorganic fiber wick, fire shutter shade structure, just to improve the transmission way and the way of lifting crane, so as to enhance a span, satisfy the purpose of the special shape of partition, smooth operation, practical and beautiful.

## 特点 Features

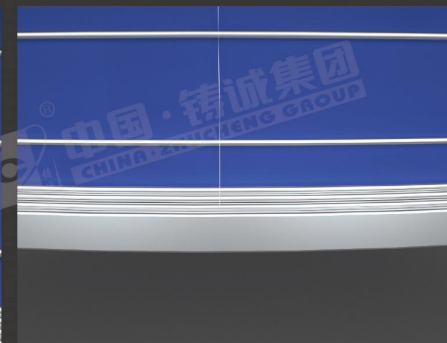
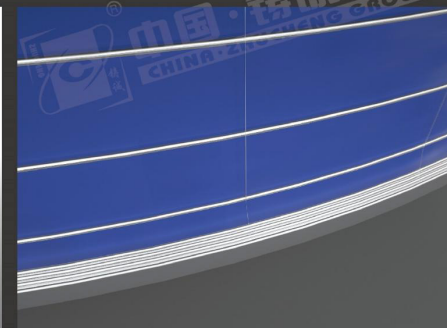
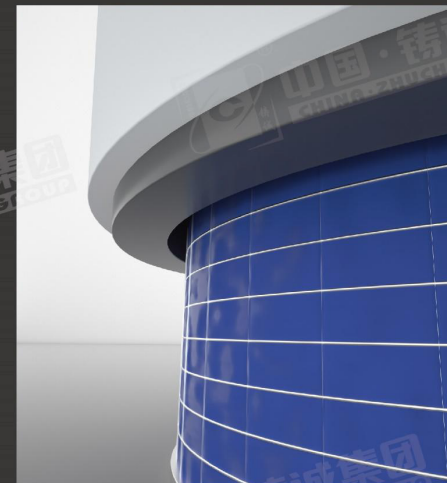
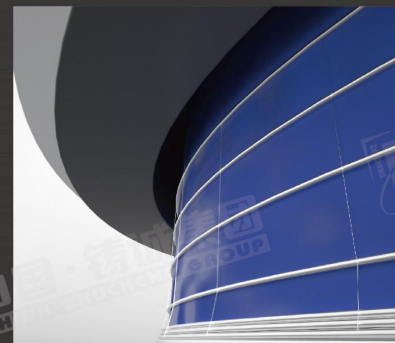
运行平稳, 噪声低;  
取消水幕保护, 降低工程造价;  
外观装饰效果好, 施工方便。

Smooth operation and low noise  
Cancels the water curtain protection,  
reduces the project cost.  
The appearance decoration effect is good,  
the construction is convenient.

## 技术性能 Technical performance

耐火性能大于4小时;  
背火面最高单点温度63.6°C, 背火面平均温度55.6°C;  
抗风压能力符合GB14102-2005的要求;  
启闭速度 2m/s - 7.5m/s。

Fire resistance greater than 4 hours;  
The highest single-point temperature of backfiring surface is  
63.6°C, the average temperature of backfiring surface is  
55.6°C;  
The wind pressure resistance meets the requirements of  
GB14102-2005;  
The opening and closing speed is 2m/s - 7.5m/s。



## SMOKE HANGING WALL

### 挡烟垂壁

挡烟垂壁是人防工程和高层民用建筑的地下与大空间防排烟系统中将发生烟的区域分割开来的装置。当消防控制中心发出火警信号或直接接受“烟感”信号置于吊顶上方的挡烟垂壁迅速落至设定高度，形成烟区分隔。由排烟风机将高温烟气排出室外。

Smoke blocking vertical wall is a device to separate the area where smoke occurs from the underground and large space smoke control and exhaust systems in civil air defense works and high-rise buildings. When the fire protection control center issues fire alarm signal or receives smoke signal directly, the smoke shield wall placed above the ceiling falls to the set height quickly, forming smoke area separation. The high temperature smoke is discharged outside by the exhaust fan.

#### 挡烟垂壁(活动式) Smoke barrier (movable type)

布经涂层处理，具有防火、防烟、隔热等功能，用于卷帘式挡烟垂壁，通常状态下卷曲于吊顶上方或固定在吊顶上。

发生火灾时自动落下

厚度：0.44mm、0.55mm、0.88mm、1.2mm。

带钢丝1.5mm、2.0mm、2.5mm、3.0mm。

颜色：白色、灰色、蓝色

驱动：电动驱动、备用电源驱动、手动驱动。

性能：挡烟、防火、耐酸碱、耐擦洗等。

Cloth coating treatment, fire, smoke, heat insulation and other functions, used for rolling type smoke block hanging wall, usually in the state of curling above the ceiling or fixed on the ceiling. Automatic falling in case of fire.  
Thickness: 0.44mm, 0.55mm, 0.88mm, 1.2mm.  
With steel wire 1.5mm, 2.0mm, 2.5mm, 3.0mm.  
Color: white, gray, blue  
Drive: Electric drive, backup power drive, manual drive.  
Performance: smoke, fire, acid and alkali resistance, scrub resistance, etc.

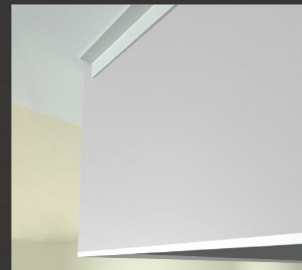
#### 挡烟垂壁(玻璃固定式) Smoke shield (glass fixed)

特点：美观度好，适用于人流物流不大，但对装饰要求很高的场所。

缺点：受到外力冲击会垮塌，容易砸伤下放人员及设备。

适用于高档酒店会议中心，文化中心，高档写字楼。

Features: Good appearance, suitable for people and logistics is not large, but the decoration requirements of high places.  
Disadvantages: the impact of external force will collapse, easy to hurt the lower personnel and or equipment.  
Suitable for high-end hotels, conference centers, cultural centers, high-grade office buildings.



#### 挡烟垂壁(帘板固定式) Smoke shield (curtain plate fixed)

产品介绍：用于办公楼、商场、剧场、厂房、车库的固定挡烟垂壁，包括由两根角铝左右相对组成的固定夹，固螺钉穿过固定夹板的两水平边将其固定在房屋的顶梁上，其特征在于：防火板的上边位于固定夹的两垂直边之间，并用连接螺钉固定，防火板上边的两面与固定夹的两垂直边之间连接。防火板的下边镶嵌有包边角铝，采用具有一定强度防火装饰板，既满足了防火挡烟的要求，又不影响美观，新型结构简单、安全可靠。

Product introduction: for office buildings, shopping malls, theaters, workshop, garage, fixed smoke hanging wall, including composed of about two root Angle aluminum relative clamp, screw fixation through the fixed splint two edges it is fixed on the top beam of the house, whose character is: the top of the fire prevention board is located in the fixed between the two vertical edges, and connecting screws, fire prevention board to the above two sides with clamp connection between the two vertical edges. The bottom of fire prevention board is inlaid with package corner aluminum, with a certain intensity of fire prevention decorative board, both to meet the requirements of fire prevention smoke, and do not affect the beautiful, new structure is simple, safe and reliable.







## SPECIAL DOOR SERIES 特种门系列

- 1 防爆门
- 2 泄爆门
- 3 军械库门





## BLAST DOOR 防爆门

B型抗爆门是爆炸物在被保护的建筑物或房间的外部爆炸时(外爆),在门洞口处设置的具有防护冲击波、碎片及火焰作用的门(门开启时为外开)。当爆炸物在室内时(内爆),且等效静荷载 $\leq 1000\text{Kpa}$ 时,B型抗爆门也可用于防内爆(门开启时为内开)在空气冲击波作用下门扇自动转向关闭状态。

适用石油化工、隧道、仓库、核电、避难所、变电所及贵重物品库、机要部门等民用建筑。适用钢筋混凝土墙体上的(墙厚 $\geq 200\text{mm}$ )门洞口及其他具有防爆性能的墙体上的门洞口。

B型抗爆门允许等效静荷载为 $30\text{Kpa}-1000\text{Kpa}$ ,按开启方式B型抗爆门分为单扇门和双扇门,双扇门最大洞口尺寸为 $3000 \times 2700(\text{h})$ 。

按门扇材质B型抗爆门分钢板门和玻璃门。钢板门又分为镀锌钢板门(镀锌钢板 $2\text{mm}$ 厚)和纤维水泥复合钢板门。玻璃门开启扇为单扇门,当门洞宽度加大时,两侧的扇为固定扇,洞口宽度可按工程需要设计,不受限制。

钢质B型抗爆门门框与预埋在洞口的预埋角钢连接,预埋角钢与墙体中的主筋(钢筋混凝土墙)连接。钢质B型抗爆门的门扇采用型钢做内部框架,内外两侧包镀锌钢板或纤维水泥复合钢板,中间填充棉或陶瓷棉。门扇有单开门、双开门和子母门三种形式。玻璃B型抗爆门的门框及门扇框料均采用不锈钢。表面处理有拉丝、镜光、砂石、黑钛、玫瑰金等,由工程设计自己选定。

门扇与四周门框及双扇门接触位置均装置三元乙丙密封条,保证抗爆门的隔离功能。由于爆炸时间的不可预测,作为人员进的抗爆门具有自动闭合的功能。

Type B explosion-resistant door is a door with protective effect of shock wave, debris and flame set at the entrance of the door (when the door is opened, it is opened externally) when explosives explode outside the protected building or room (external explosion). When the explosive is in the room (implosion), and the equivalent static load is less than or equal to  $1000\text{Kpa}$ , the B-type explosion-resistant door can also be used to prevent implosion when the door is opened, it is inside). Under the action of air shock wave, the door automatically turns to the closed state.

Applicable to petrochemical, tunnel, warehouse, nuclear power, shelter, substation and valuables storage, confidential departments and other civil buildings. Applicable to reinforced concrete wall (wall thickness  $\geq 200\text{mm}$ ) door holes and other explosion-proof performance of the wall door holes. The B-type explosion-resistant door allows the equivalent static load of  $30\text{Kpa}-1000\text{Kpa}$ . According to the opening mode, the B-type explosion-resistant door is divided into single door and double door. The maximum hole size of the double door is  $3000 \times 2700(\text{h})$ .

B type explosion-resistant door is divided into steel plate door and glass door according to door material. Steel plate doors are divided into galvanized steel plate doors (galvanized steel plate  $2\text{mm}$  thick) and fiber cement composite steel plate doors. The opening fan of the glass door is a single door. When the width of the door increases, the doors on both sides are fixed fans. The width of the door can be designed according to the needs of the project without limitation.

Steel B type explosion-resistant door frame and embedded in the hole embedded Angle steel connection, embedded Angle steel and wall in the main bar (reinforced concrete wall) connection. Steel B type explosion-resistant door using steel as the internal frame, inside and outside both sides of galvanized steel or fiber cement composite steel, rock wool or ceramic wool filled in the middle. The door has three forms: single door, double door and mother door. Glass B type knock resistant door frame and door frame material are made of stainless steel. Surface treatment is drawn, mirror light, sand, black titanium, rose gold, etc., selected by the engineering design.

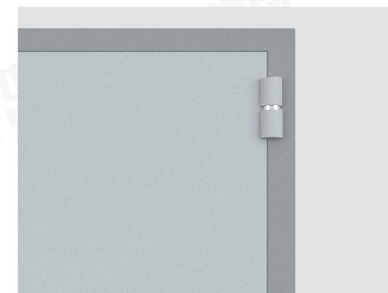
The contact position between the door and the surrounding door frame and the double door is equipped with epDM sealing strip to ensure the isolation function of the knock resistant door. Due to the unpredictable explosion time, the explosion-resistant door has the function of automatic closing as a personnel entry.



## 技术参数 Technical parameters

- ① 最大可供尺寸门宽:  $800\text{mm}-6000\text{mm}$ ;
- ② 门高:  $2000\text{mm}-6000\text{mm}$ ;
- ③ 门扇材质: 双面 $3\text{mm}/5\text{mm}$ 碳钢面板;
- ④ 骨架材质:  $50 \times 50 \times 3$ 或 $50 \times 50 \times 5$ 方管制作骨架,内架小格面积不大于 $0.3$ 平米;
- ⑤ 门框材质:  $100\#$ 槽钢制作,预留安装孔位及合页焊接部位加强制作抗爆搭边及缓冲密封条;
- ⑥ 合页组: 特制防爆合页,每个合页内含滚珠及滚珠轴承,减小摩擦,轻便开关;
- ⑦ 锁闭机构: 采用工业级齿轮齿条传动,  $18\#$ 圆钢制作锁杆,顶死结构采用B级防盗锁,四方锁定,锁定点位4个;
- ⑧ 表面处理: 表面喷砂除锈后室外塑粉喷塑;
- ⑨ 密闭缓冲: 橡胶密封条;
- ⑩ 抗爆能力: 最大 $260\text{KP}$ 。

1. The maximum available size door width:  $800\text{mm}-6000\text{mm}$ ;
2. Door height:  $2000\text{mm}-6000\text{mm}$ ;
3. Door material: double-sided  $3\text{mm}/5\text{mm}$  carbon steel panel;
4. Skeleton material:  $50 \times 50 \times 3$  or  $50 \times 50 \times 5$  square tube as the skeleton, the area of the inner frame is not greater than  $0.3$  square meters;
5. Door frame material:  $100\#$  channel steel production, reserved installation hole and hinge welding position to strengthen the production of anti-explosion edge and buffer sealing strip;
6. Hinge group: special explosion-proof hinge, each hinge contains ball and ball bearing, reduce friction, light switch;
7. Locking mechanism: the use of industrial grade rack and pinion drive,  $18\#$  round steel lock rod, the top dead structure using B class anti-theft lock, four direction locking, locking point 4;
8. Surface treatment: surface sandblasting after derusting outdoor plastic powder spray;
9. Sealing buffer: rubber sealing strip;
10. Anti-explosion capability: up to  $260\text{KP}$ .





## 泄爆门

泄爆门是一种泄爆(泄压)装置,适用于有粉尘爆炸和气体爆炸危险的建筑物。它的门扇部分是由许多扇泄爆窗组成的,在给定的开启压力作用下泄爆窗能够打开泄压口,而在泄爆之后又能关闭泄压口,在泄爆之后经过简单处理是可以继续使用的,泄爆压力值达到10Kpa~20Kpa时泄爆门上的泄爆窗可以开启。

The explosion door is a kind of explosion (pressure relief) device, which is suitable for buildings with dust explosion and gas explosion danger. The door flap is composed of many fan relief windows. Under the given opening pressure, the relief window can open the relief mouth, and can close the relief mouth after the relief. After the relief pressure reaches 10Kpa~20Kpa, the relief window on the relief door can be opened after simple treatment.



泄爆门按材质可分为钢质和铝质。门扇部分用型钢做骨架,内外两侧为钢板或铝板,中间填充岩棉,都是保温型的。泄爆门均为外开门,门扇上的泄爆窗均向外开启。泄爆窗的泄爆压力值是由泄爆螺栓控制的。泄爆螺栓由螺栓、防水垫圈和铝合金垫片构成。泄爆螺栓的铝合金垫片的强度是与泄爆窗的泄爆压力值相对应的。在爆炸压力作用下通过铝合金垫片变形,让窗扇在爆炸气流的冲击下能够开启,以达到泄爆的目的。

The discharge door can be divided into steel and aluminum according to the material. The part of the door is made of steel frame, both sides of the inside and outside are steel plate or aluminum plate, and the middle is filled with rock wool, which is insulation type. The detonating doors are open externally, and the detonating windows on the doors are open outwards. The vent pressure of the vent window is controlled by the vent bolt. The detonating bolt is composed of a bolt, a waterproof washer and an aluminum alloy gasket. The strength of the aluminum alloy gasket of the detonation bolt is corresponding to the detonation pressure of the detonation window. Deformation through aluminum gasket under explosion pressure. The window sash can be opened under the impact of the explosive air flow to achieve the purpose of detonation.

## 技术参数 Technical Parameters

- ① 最大可供尺寸门宽:800mm-6000mm;
- ② 门高:2000mm-6000mm;
- ③ 门扇材质:双面1.5mm碳钢板;
- ④ 骨架材质:50\*50\*5方管制作骨架,骨架小格面积不大于0.3平米门;
- ⑤ 框材质:100#槽钢制作,预留安装孔位及合页焊接部位加强制作泄爆搭边及缓冲密封条;
- ⑥ 合页组:特制泄爆合页,每个合页内含滚珠及滚珠轴承,减小摩擦,轻便开关;
- ⑦ 锁闭机构:采用工业级齿轮齿条传动,18#圆钢制作锁杆,B级防盗锁,四方向锁定,锁定点12个;
- ⑧ 表面处理:表面喷砂除锈后室外塑粉喷塑;
- ⑨ 密闭缓冲:橡胶密封条。

1. Maximum available door width: 800mm-6000mm;
2. High: 2000 mm - 6000 mm;
3. Material of door fan: double-sided 1.5mm carbon steel panel;
4. Skeleton material: 50\*50\*5 square control as skeleton, skeleton small grid area is not greater than 0.3 square meters door;
5. Frame material: 100# channel steel production, reserved installation holes and hinge welding parts to strengthen the production of explosive lapping and buffer sealing strip;
6. Hinge group: special blowout hinge, each hinge contains ball and ball bearing, reduce friction, light switch;
7. Lock mechanism: industrial class rack and pinion drive, 18# round steel lock rod, B class anti-theft lock, four direction lock, lock 12 points;
8. Surface treatment: Outdoor plastic powder spraying after sand blasting and rust removal on the surface;
9. Airtight buffer; Rubber seal strip.

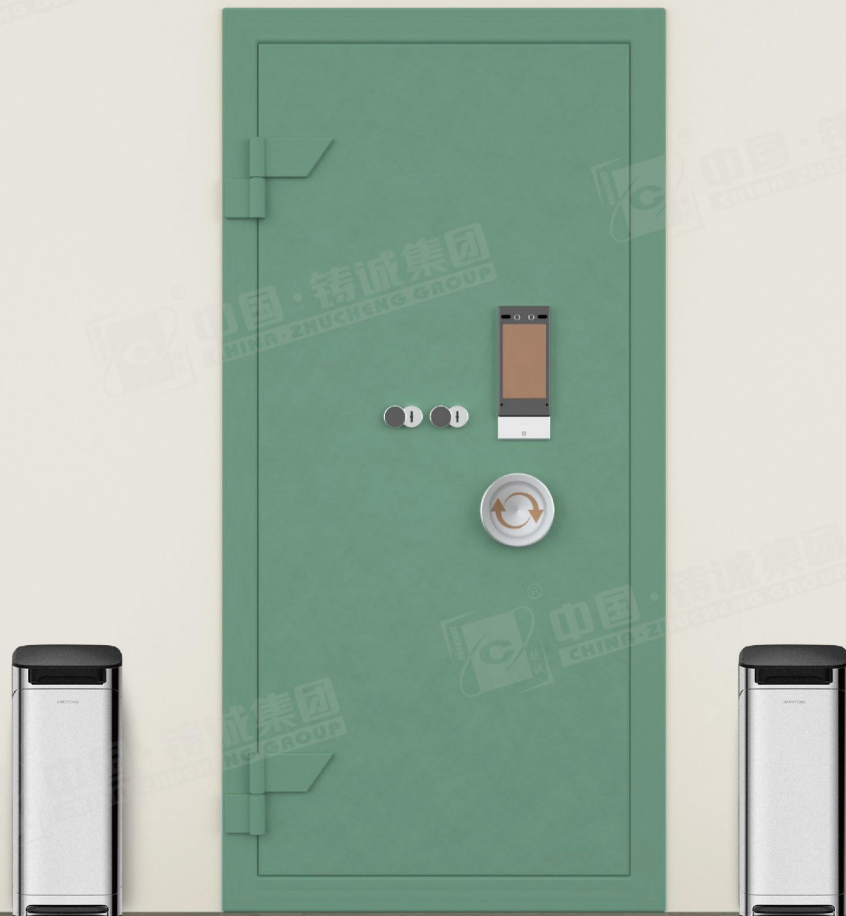


## THE ARMORY DOOR

### 军械库门

军械及弹药库门使用于军队、公检法机关及保安公司、射击训练场等涉及装备枪支及弹药储存场所。由于此类设备严格管理要求，存储场所的建筑门、窗及储藏柜均需要特殊设计。军队有GJB 4134-2000标准，及按公安部门标准进行规范设计、生产及使用。弹药库门在不同使用场所对门体强度、防盗性能、防火性能、防切割性能等有不同要求。

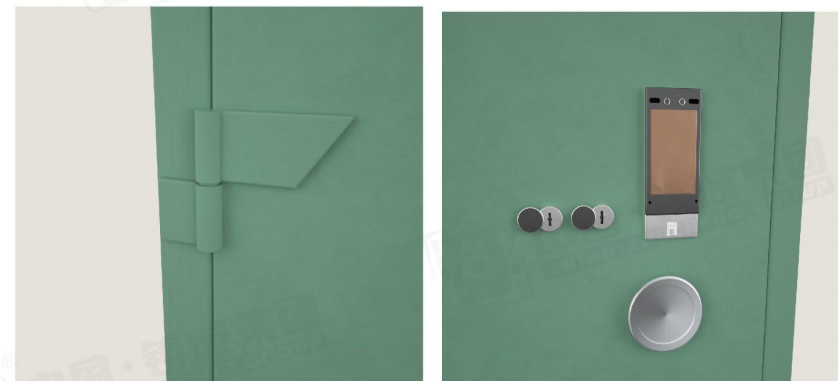
Ordnance and ammunition depots are used in armed forces, public security organs and security companies, shooting training grounds and other places where guns and ammunition are stored. Due to the strict management requirements of such equipment, the building doors, windows and storage cabinets of storage places need special design. The army has the GJB 4134-2000 standard, and carries on the standard design, production and use according to the standard of the public security department. There are different requirements for the door strength, theft-proof performance, fireproof performance and anti-cutting performance in different use places.



## 特点 Features

- ① 双人或多人授权开启；
- ② 防盗技术开启能达到国家防盗B级标准；
- ③ 门体钢板厚度不低于4mm，锁具位置设置防切割钢板，防止暴力破坏；
- ④ 门体内部填充防火材料，耐火时间达到国家防火甲级标准；
- ⑤ 锁具开启方式可选为：机械手动开启和智能指纹识别、掌静脉授权开启，也可实现手动与智能面部双重开启。

1. Two-person or multi-person authorization to open;
2. Anti-theft technology can reach the National anti-theft B standard;
3. The thickness of the steel plate of the door body shall not be less than 4mm. Anti-cutting steel plate shall be set in the position of the lock to prevent violent damage;
4. The door body is filled with fireproof materials, and the fireproof time reaches the national fireproof class A standard;
5. The opening mode of the lock can be: mechanical manual opening, intelligent fingerprint identification, palm vein authorization opening, or manual and intelligent face double opening.



## 技术参数 Technical Parameters

- ① 最大可供尺寸门宽：800mm-6000mm，门高：2000mm-6000mm；
- ② 内架材质：50\*50\*3或50\*50\*5方管制作骨架，骨架小格面积不大于0.3平米；
- ③ 门框材质：100#槽钢制作，预留安装孔位及合页焊接部位加强制作抗爆搭边及缓冲密封条；
- ④ 合页组：特制防爆合页，每个合页内含滚珠及滚珠轴承，减小摩擦，轻便开关；
- ⑤ 锁闭机构：采用工业级齿轮齿条传动，18#圆钢制作锁杆，顶死机构采用B级防盗锁，四方向锁定，锁定点位10个；
- ⑥ 表面处理：表面喷砂除锈后室外塑粉喷塑；
- ⑦ 防火性能：耐火时间1.5h；
- ⑧ 防盗性能：国家防盗B级标准实现多人授权开启。

1. Maximum available size door width: 800mm-6000mm door height: 2000mm-6000mm;
2. Inner frame material: 50\*50\*3 or 50\*50\*5 square control as skeleton, skeleton small grid area is not greater than 0.3 square meters;
3. Door frame material: 100# channel steel production, reserved installation holes and hinge welding parts to strengthen the production of anti-explosion lapping and buffer sealing strip;
4. Hinge group: special explosion-proof hinge, each hinge contains ball and ball bearing, reduce friction, light switch;
5. Lock mechanism: industrial class rack and pinion drive, 18# round steel to make the lock rod, jacking mechanism using B class anti-theft lock, four directional locking, locking points 10;
6. Surface treatment: surface sandblasting rust after outdoor plastic powder spray;
7. Fire performance: fire resistance time 1.5h;
8. Anti-theft performance: national anti-theft B level standard to achieve multiple authorization to open.



## PRODUCT APPLICATION LOCATION RENDERINGS

### 产品应用位置效果图

**A** 折叠门  
FOLDING DOOR

**B** 提升门  
IMPROVE THE DOOR

**C** 推拉门  
SLIDING DOOR

**D** 平开门  
INDUSTRIAL FLAT DOOR

**E** 快速卷帘门  
FAST ROLLING SHUTTER DOOR

**F** 上折门  
THE FOLDING DOOR

**G** 水平钢制防火卷帘  
COMPOSITE HORIZONTAL STEEL FIRE SHUTTER

**H** 特级防火卷帘  
SUPER-GRADE FIREPROOF ROLLING SHUTTER

**I** 装卸平台及门封  
LOADING PLATFORM AND DOOR SEAL





## 荣誉 Honor



## 专利 Patent



GROUP HONORS/PATENTS

集团荣誉/专利



## RE-THINK FUTURE

# 再思未来

铸诚集团历经20余年的发展,从专业门类制造领航企业,发展成为涉及医疗、教育、地产和公建等领域装饰装备的综合性大型集团公司。立足于10余年在医疗领域的深耕,不断的引进国际先进理念和技术、产品,铸诚在医院集成装饰领域不断前行,将德国、日本和铸诚自有研发的最新产品推广应用到中国医疗建设中,让中国医院能够在装饰领域实现与国际标准的接轨,使得优秀的设计理念和方案得以实现。我们将继续努力,砥砺前行,用更多的创新产品、设计和施工,推动中国医院建设向装配式、集成化、智能化快速发展。

After more than 20 years of development, zhucheng group has developed from a professional manufacturing leading enterprise to a comprehensive large group company of decoration equipment in the fields of medical treatment, education, real estate and public construction. Based on more than 10 years in the medical field of agriculture, the introduction of international advanced concepts and technologies, products, casting sincere to go on in the field of hospital integration decoration, Germany, Japan and casting its own research and development of new products applied to the construction of China's medical, let China hospital can be implemented in the field of decoration with international standard, make good design ideas and solutions. We will continue to work hard to promote the rapid development of China's hospital construction to an assembly-type, integrated and intelligent one with more innovative products, designs and construction.

