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A PROFESSIONAL SUPPLIER OF
ALL-IN-ONE SOLUTION FOR
INDUSTRIAL DOORS

工业用门整套解决方案的提供者



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上海肯夫门业有限公司，前身为创升自动门厂，成立于1995年，是国内最早专业从事工业用门研发、生产的企业之一。自成立以来，肯夫一直专注于为工业客户提供整套、定制化门禁系统解决方案。经过多年的行业经验以及不断吸收欧洲先进设计理念，先后开发出满足于不同行业、不同环境的门类产品。产品涵盖：快速卷帘门、电动卷帘门、工业滑升门、钢质平开门、平移门、物流装卸系统、玻璃门、柔性大门、机库门、自由门、冷库门等。产品广泛应用于食品、医药、化工、电子、机械、物流仓储、现代农业、商场超市等领域。公司先后为数十家世界500强企业及众多国内大中型企业提供门类解决方案，并以专业的售前咨询、可靠的产品质量和用心的售后服务，赢得了客户的认可。公司自2006年以来，开始发展国际市场，积累了丰富的国外项目运营经验。截至目前，已经先后出口澳大利亚、新西兰、新加坡、马来西亚、印尼、泰国、菲律宾、越南、缅甸、孟加拉、美国、哥伦比亚、智利、尼日利亚、安哥拉、南非、英国、荷兰、乌克兰、俄罗斯、蒙古等国家。

Established in 1995, Kenvo is one of the earliest professional manufacturers of industrial doors in China market. Since the very beginning, we are focused on offering complete and customized solution of entrance door system for industrial clients. A wide product line is developed during many years industry experience and through absorbing design mature concepts from worldwide developed markets, to meet specific needs from various industries and situations. It includes Rapid Roller Door, Automatic Roller Shutter Door, Sectional Door, Steel Swing Door, Sliding Door, Logistics System, Glass Door, PVC Mega Door, Hangar Door, Traffic Door, Cold-storage Door and so on. They are widely used in food&drug industry, chemical industry, electronic industry, machinery industry, logistics industry, modern farming, and commercial building like super markets. We take great pride in that, dozens of World-Fortune-500 companies and hundreds of renowned China domestic companies have chosen us and enjoyed our high-quality product and service. And since the year 2006, we have been running and expanding our overseas business. Until now, our product have reached Australia, New Zealand, Singapore, Malaysia, Indonesia, Thailand, Philippine, Vietnam, Bangladesh, USA, Colombia, Chile, Nigeria, Angola, South Africa, England, Netherland, Ukraine, Russia, Mongolia and so on.

01

COMPANY PROFILE 企业简介

我们的核心理念 OUR CORE PHILOSOPHY

为客户提供最具效益的产品和解决方案
为员工的事业、生活创造福利
与合作伙伴分享成功

Offer our clients with long-term cost-effective product and solution.
Create benefits for our employee's career and personal life.
Share success with our partners.

我们一直致力于的重要工作

WHAT WE HAVE ALWAYS BEEN DEDICATED IN

产品开发

Keep developing better models

专业的售前咨询

Professional pre-sales consultation

严格的生产把控

Strict production control

用心的售后服务

Full-hearted after-sale service

我们取得的认可

WHAT RECOGNITION WE HAVE GOT

ISO9001质量管理体系认证

ISO9001 Quality Management System Certificate

欧盟CE产品认证

CE Certificate of Europe Union

瑞士SGS认证

SGS Audit Certificate



02

1R

快速卷帘门

Rapid Roller Door

PRODUCT
INFORMATION

产品介绍

快速卷帘门广泛应用于现代工业厂房和物流仓库中。因其具有以下独特的性能，在工业建筑的日常运行中起到不可替代的作用。

Rapid Roller Door is widely used in modern factories and warehouses. Because of below unique characteristics, it becomes the first choice in many cases.

① 标准型快速卷帘门
Standard Type RRD-STD

采用变频控制系统，实现门的柔和加速、减速，有效保护电机运行、减少发热和磨损；采用先进的绝对值式编码器控制门的运行，替代传统的机械限位控制或增量式编码器控制，有效提高了门的运行精度，消除日常使用中可能产生的限位偏差或丢失，避免频繁的调节、维护。

Frequency inverter control system is adopted, realizing soft start and stop. It can reduce the heat producing and abrasion of running motor and prolongs its working life. Movement of door is controlled precisely by an advanced Absolute encoder, rather than traditional Mechanical limit switch or Incremental encoder. This enhances the accuracy of running and avoids limit deviation or loss, reducing daily adjusting and maintenance work.

门帘采用高强度聚氯乙烯织物，通过热高频热焊接技术，加工拼接而成，美观、牢固、耐久；门帘之间通过穿插铝合金加强筋，使得门体有很好的抗风性能。

Door fabric is made from high-strength polyvinyl chloride material, and processed by High-frequency Heat Welding, to make the whole curtain strong, beautiful and durable. Aluminum alloy rods are used to connect adjacent fabric segments, improving the wind resisting performance.

A 高速开启、关闭
High speed opening and closing

速度可达2m/s,为传统电动卷帘门的10倍，可大大提高通行效率，提高工厂整体产出。

The running speed can reach 2m/s, 10 times as traditional roller shutter door. This obviously improves passing efficiency through it and enhances overall output.

B 超高运行频率
High frequency operation

每天可开启、关闭无故障运行1000次以上，满足叉车装卸货频繁进出等高频率通行区域。

The operation frequency can reach more than 1000 times per day without any faults. This meets need of heavy traffic in some areas.

C 高度自动化控制
High-level automation

可通过选配雷达自动感应等多种方式，实现门的自动控制，提高自动化水平和工作效率。

Automatic radar or other devices can be equipped, realizing auto control of the door. This enhances automation level and work efficiency.

D 高安全性
Excellent safety performance

配备红外安全感应和接触式安全感应，双重防护，避免碰撞，确保通行的人、车、货物安全。

Dual protection design. Every door is equipped with safety photo sensor and proximity sensor, avoiding collision accidents and protecting passing human or vehicles.

E 有效隔绝室内、室外环境
Effective insulation

得益于快速的开启、关闭，可以有效减少室内室外空气交互流通的时间，防止室外灰尘等的流入，且可减少热量传导，节约能源。

Benefiting from fast opening and closing, it can reduce the air flow between indoor and outdoor and prevent dust from entering the room. At the same time, energy is saved by reducing thermal conduction.

F 符合GMP标准
Complying with GMP norm

独特密封性设计，聚氯乙烯布帘不易积尘且易于清洗，符合GMP卫生标准。

Special design seal structure. PVC fabric is dust-proof and easy for cleaning.

● 门洞最大尺寸：宽5000mm， 高6000mm	Max dimension: 5000mm wide, 6000mm high
最高开启速度：1.8m/s	Max opening speed: 1.8m/s
最高关闭速度：1.0m/s	Max closing speed: 1.0m/s
抗风压：10级（25m/s）	Wind resistance: Beaufort scale 10 (25m/s)
设计使用寿命：15年	Work life: 15 years
工作电压：单相220±15%V 或三相 380V±15%V,50/60HZ	Power supply: 1-phase 220±15%V or 3-phase 380V±15%V,50/60HZ
电器防护等级：IP55	Protection level of electric: IP55
布帘可选颜色：黄色、蓝色、红色、 灰色、白色、透明	Available colors of fabric: Yellow, Blue, Red, Grey, White, Clear

快速门帘可选颜色 Colors available for all models of Fabric Material Rapid Doors



蓝色 Blue



黄色 Yellow



红色 Red



灰色 Grey



白色 White



全透明 Full Clear

② 伺服系统快速门 Servo Type RRD-SERVO



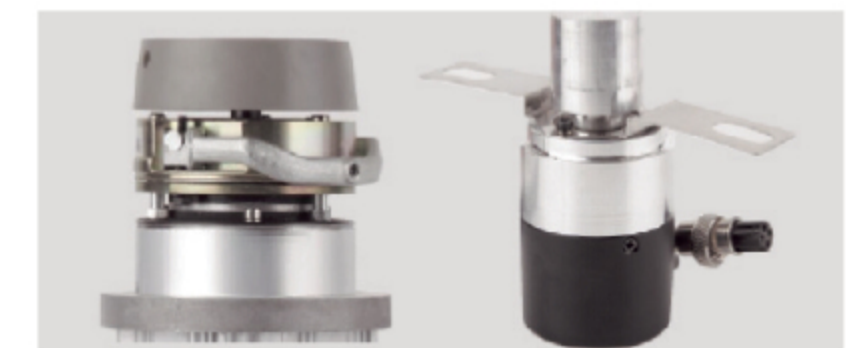
适用于对开启速度和开启频率有要求的区域。与标准型快速门的区别在于，采用了先进的交流永磁同步伺服电机和伺服控制系统，提高了门的控制精度和响应速度。即使在超高频率下使用，电机也能保持良好的工作状态。

Ideal choice for areas high-demanding for high running speed and frequency. The difference between it and regular type door consists in that its driving motor and control system are all Servo type, with better movement accuracy and quicker response. Even under very high-frequency operation, the motor can keep good working condition.



采用双编码器设计，内部编码器和外置编码器同时参与控制运行，相互校准，确保限位准确。

Special double encoder design. In-built encoder works together with external encoder to control the running. They calibrate with each other and guarantee precise limit.



力矩随动系统，每次运行均依据负载情况和设定速度，自动调节扭矩，运行更加平稳柔和。

Torque servo system. The motor automatically adjusts its torque every time when the door runs, according to specific load condition and running speed.

- 门洞最大尺寸：宽 5000mm, 高 5000mm
- 最高开启速度：2.5m/s
- 最高关闭速度：1.2m/s
- 抗风压：10 级(25m/s)
- 设计使用寿命：15 年
- 工作电压：单相 220±15%V, 50/60HZ
- 电器防护等级：IP55
- 布帘可选颜色：黄色、蓝色、红色、灰色、白色、透明

Max dimension: 5000mm wide, 5000mm high
Max opening speed: 2.5m/s
Max closing speed: 1.2m/s
Wind resistance: Beaufort scale 10 (25m/s)
Work life: 15 years
Power supply: 1-phase 220±15%V, 50/60HZ
Protection level of electric: IP55
Available colors of fabric: Yellow, Blue, Red, Grey, White, Clear

③ 拉链式快速卷帘门

Zipper Type Door RRD-ZIP



高密封性High Air-tightness

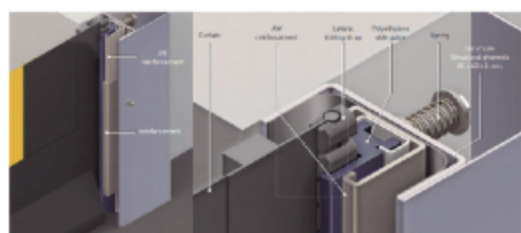
独特拉链式设计，将门的布帘和两侧导轨紧密连成一体，完全消除了两侧的间隙，大大提高密封效果，特别适用于食品、医药、洁净室、无尘车间等对室内环境有较高要求的区域。

Special zipper design structure, connects the fabric and guide rails as a whole body, eliminating gap between them. It obviously improves overall seal performance. Thus, such type door is quite fit for food and drug factory, clean room and dust-free workshop, where there is very high demand of hygienic indoor environment.

自动修复Self-repairing

门体底部采用软性扭簧或橡胶作为配重，区别于普通快速门的铝合金硬质配重。门在被叉车或其他物体撞击后，不会损坏变形，可以自动或手动辅助实现迅速修复，大大减少因撞击事故造成的维修工作。

A flexible torsion spring or rubber is adopted as bottom balance weight, instead of hard aluminum alloy profile of regular rapid doors. When there is a collision accident by forklift or other objects, the door will not be damaged. And it can recover automatically or semi-automatically under hand assistance. This design effectively reduces the maintenance and repair work caused by collisions.



● 门洞最大尺寸：宽4000mm，高4000mm	Max dimension: 4000mm wide, 4000mm high
最高开启速度：2.0m/s	Max opening speed: 2.5m/s
最高关闭速度：1.0m/s	Max closing speed: 1.2m/s
抗风压：8级（20m/s）	Wind resistance: Beaufort scale 8 (20m/s)
设计使用寿命：15年	Work life: 15 years
工作电压：单相 220 ± 15% V 或 三相 380V ± 15% V, 50/60HZ	Power supply: 1-phase 220 ± 15% V or 3-phase 380V ± 15% V, 50/60HZ
电器防护等级：IP55	Protection level of electric: IP55
控制和驱动系统：可选配变频控制系统或伺服控制系统	Control system: inverter type or servo type
布帘可选颜色：黄色、蓝色、红色、灰色、白色、透明	Driving system: brake motor or servo motor
	Available colors of fabric: Yellow, Blue, Red, Grey, White, Clear

④ 抗风型背带门

Anti-wind Type RRD-WIND

适用于风压较大且门洞尺寸较大的区域，具有优良的抗风性能。采用多根高强度铝合金杆将PVC布帘串接成一体，在迎风时，起到很好的支撑作用。同时采用特殊设计的皮带结构，通过卷筒滚动收纳或释放皮带，实现门的开启、关闭。

This model is with excellent wind-resistant performance, fit for areas with big wind pressure and door hole sizes. Several high-strength aluminum rod is used to connect PVC fabric as a whole. When faced with big wind, such rods will offer big support. Special belt structure is adopted to lift door up and down by revolving roller.



● 门洞最大尺寸：宽 8000mm, 高 7000mm	Max dimension: 8000mm wide, 7000mm high
最高开启速度：1.0m/s	Max opening speed: 1.0m/s
最高关闭速度：0.7m/s	Max closing speed: 0.7m/s
抗风压：12级（35m/s）	Wind resistance: Beaufort scale 12 (35m/s)
设计使用寿命：15年	Work life: 15 years
工作电压：单相 220 ± 15% V 或 三相 380V ± 15% V, 50/60HZ	Power supply: 1-phase 220 ± 15% V or 3-phase 380V ± 15% V, 50/60HZ
电器防护等级：IP55	Protection level of electric: IP55
布帘可选颜色：黄色、蓝色、红色、灰色、白色	Available colors of fabric: Yellow, Blue, Red, Grey, White

⑤ 冷库快速卷帘门

Freezer Rapid Roller Doors RRD-FREEZER



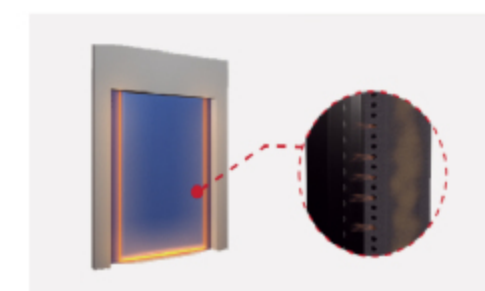
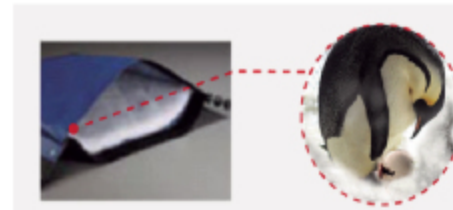
保温型耐低温快速卷帘门，广泛应用于食品医药行业工厂、冷链物流仓储、保鲜库、冷冻库等低温区域。工作温度可低至-25℃。

Insulated Freezer Rapid Roller Door, widely used in food & pharmaceutical factories, cold chain warehouses, cooler room, and cold stores. It can work in -25℃ extreme low temperature area.

优良的保温效果Excellent Thermal Insulation

门帘采用特殊双层夹心设计，内部填充保温岩棉材料，总厚度达20-40mm，有效隔绝热量传导，可大大减少冷库制冷系统的运转负荷，从而降低用电量、节省能源。同时，快速的开启关闭大大减少车辆人员的同行时间，从而降低门开启期间的热量流失。根据测算，一个安装快速冷库门的中型冷库比传统冷库每月节省7200kwh电量。

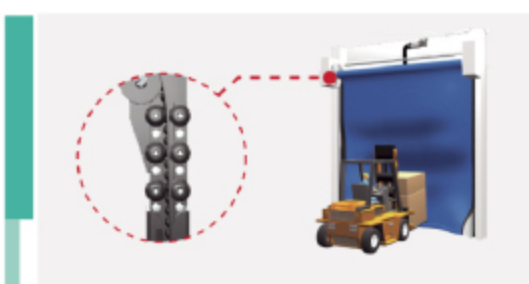
PVC Fabric curtain is special double-layer structure, filled with thermal insulation rock wool material, with total thickness up to 20-40mm. It can stop the heat transmission. And fast opening and closing will reduce the time of passing vehicles or humans. This will reduce the heat loss when the door is opening. With above two points, it can help clients save much energy consumption of freezers and cold stores. According to real tests, such freezer rapid doors can save 7200kwh electricity per month.



特殊防结冰加热设计 Special Anti-freezing Heating Device

冷库的低温潮湿环境会使得门的四周很容易结冰冻住，导致门无法运行甚至损坏电器部件。我们配备特殊防冻电加热装置，将微小热量源源不断的送往门的四周，有效避免结冰冻住。

In freezers or cold rooms, the door running parts will easily get frozen in low temperature and humid environment. This may lead to serious damage or fault when door try to runs when frozen steady. Motor and control system even may get burnt. To avoid



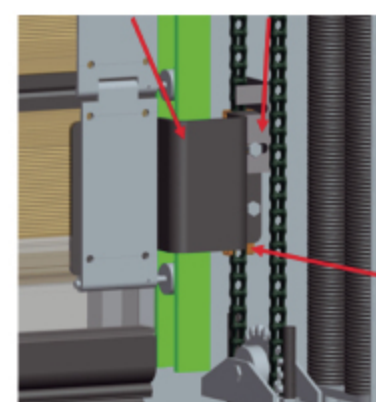
such situation, in our doors, we equip it with special anti-freeze heating device. It will bring continues heat to all-around the door to avoid freezing.

自动修复免维修Self-repairing Design And Zero Maintenance

门两侧为特殊拉链式结构，在发生叉车撞击事故的情况下，门帘可以从两侧轨道脱出，并且在上升过程中通过复位装置重新滑入轨道，恢复正常。因此，避免了维修维护，大大节省费用，且不影响冷库日常运行，产生巨大间接效益。

Self-repairing design. Side rails are special zipper lock structure. If the door is hit by a forklift, its fabric curtain will get out of the side rails without damages. Then it will get back into rails again when opening up and recover automatically. There is no need repair and maintenance. This will save a lot cost and energy for end users. And also bring big benefit by keeping normal operation of the whole freezer.

● 门洞最大尺寸：宽3000mm，高3500mm	Max Size: W3000mm, H3500mm
最高开启速度：1.8m/s	Max Opening Speed: 1.8m/s
最高关闭速度：1.0m/s	Max Closing Speed: 1.0m/s
抗风压：8级（20m/s）	Wind Resistance: Grade 8（20m/s）
设计使用寿命：15年	Work Life: 15 years
工作电压：单相220±15%V, 50/60HZ	Power Supply: 1-phase 220±15%V, 50/60HZ
电器防护等级：IP55	Safety Class of Electric: IP55
控制和驱动系统：伺服控制系统	Control System: Servo technology
帘布可选颜色：蓝色	Color: Blue



配备手动刹车释放装置，在断电、电器故障等紧急情况下可轻松手动开门。避免因门无法开启导致人员无法疏散或货物无法通行。

Emergency release device. The door can be easily opened with this device, under emergency situations like power failure or electrical faults. This makes emergency transferring goods or human evacuation possible.

可选配一排或多排透视窗，起到建筑采光或便于人员观察的作用。视窗采用高透光性聚碳酸酯材料，可有效隔离紫外线。

One or more rows of clear window can be selected, for daylighting or human vision. It is made from polycarbonate board, with effective ultraviolet isolation.

● 门洞最大尺寸：宽5000mm，高5000mm	Max dimension: 5000mm wide, 5000mm high
最高开启速度：2.5m/s	Max opening speed: 2.5m/s
最高关闭速度：1.0m/s	Max closing speed: 1.0m/s
抗风压：12级（35m/s）	Wind resistance: Beaufort scale 12 (35m/s)
设计使用寿命：15年	Working life: 15 years
工作电压：单相220±15%V或三相380V±15%V, 50/60HZ	Power supply: 1-phase 220±15%V or 3-phase 380V±15%V, 50/60HZ
电器防护等级：IP55	Protection level of electric: IP55
控制和驱动系统：变频控制或伺服控制	Control system: Inverter type or Servo type
隔热系数：1.9W/(m²·K)	Driving system: Brake motor or Servo motor
隔音系数：R=25dB	Thermal conductivity factor: 1.9W/(m²·K)
	Sound insulation factor: R=25dB

⑥ 铝合金硬质快速门 Aluminum Alloy Rapid Door RRD-ALU

采用高强度铝合金聚氨酯夹心板作为门板材料，一次挤压成型，美观大方。门板成型总厚度达40mm，内填充聚氨酯发泡密度为50Kg/m³，使得门具有卓越的保温隔热、隔音性能。高强度门板使得该门具有优良的防盗、抗风性能，适于作为建筑的外门。

The slat is high-strength double-layer aluminum alloy panel. Total thickness of it reaches 40mm and inside is filled with polyurethane foam with density of 50Kg/m³. It has good thermal and sound insulation, burglarproof function and wind resistance. It is very suitable as main entrance door of workshops.

螺旋式轨道设计，门体全程在轨道内运行，完全消除了门帘片之间的摩擦，降低了高速运行的噪音和振动。

Spiral shape guide rail. Door panels keeps moving inside it all the way. This eliminates friction among slats, and reduces noise and vibration.



扭簧平衡系统，内置于两侧轨道中，抵消门体自重，大大降低电机运行负载，延长使用寿命。

Torsion spring balance system, inbuilt into the side guide rails. It counteracts the door weight and prolongs working life of motor by reducing its load.



Round spiral guide rail Oval spiral guide rail Low lintel guide rail

附件和可选配置

ACCESSORIES AND OPTIONAL PARTS

(适用于型号 RRD-STD, RRD-SERVO, RRD-ZIP, RRD-ALU)
(Fit for all models, RRD-STD, RRD-SERVO, RRD-ZIP, RRD-ALU)

标准配置 Standard configuration



光电安全感应
Safety photo sensor



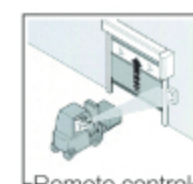
接触式安全感应
Safety proximity sensor



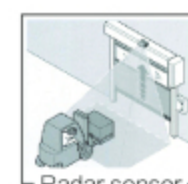
运行警示灯
Warning lamp



室内、室外双侧按钮控制，满足日常操作需要
Operation buttons of both outside and inside



Remote control



Radar sensor



Vehicle loop detector



Pull-switch

多种附加控制方式，可根据实际需要选配

1. 雷达感应；2. 地磁感应；3. 遥控；4. 拉绳开关；5. 互锁

Multiple additional operation methods available

1. Radar 2. Vehicle loop detector 3. Remote control 4. Pull-cord switch 5. Interlocking

2 电动卷帘门 Roller Shutter Door

① 抗风卷帘门 Standard Roller Shutter Door RSD-ST



优良的抗风性能 Excellent wind resistance

门片材质为0.8mm以上钢板材质，通过冷轧加工，形成拱形截面，立面结构强度提升85%，抗风达到12级，即35m/s。

Slats made from 0.8mm thick or above galvanized steel. It is formed with cold-processing and made into special arc section. The elevation structural strength is improved by 85%. It can resist Beaufort scale 12 wind, namely 35m/s.

先进的驱动系统 Advanced driving system

电机内置限位模块，运行控制精准无误；过载保护模块可在发生运行卡阻、供电不稳或持续运行导致过热时，自动停止电机运行，有效防止电机损坏。

In-built limit device controls running precisely; Overload-protection module will stop motor from running when there is jamming or overheating, to protect the motor.

强耐腐蚀性 Anti-corrosive

门片和导轨均采用镀锌钢板加工而成，同时表面做粉末静电喷涂处理，镀锌和油漆双重防护。

Dual protection. Slats and guide rails are made from galvanized steel. And surface is treated with electrostatic powder spraying coating.

运行平稳、静音 Stable and quiet running

卷筒经过激光校直，确保直线度；门在运行时，卷筒全长同轴转动，确保门片运行平齐不发生偏离，平稳、无摩擦噪音。

Roller is rectified by Laser-beam method, to guarantee straightness and coaxial rotation. When door running, the slats can move at same pace without deviation and blocking.

人性化的控制方式 Convenient operation methods

标配防盗式按钮盒控制，满足日常使用，同时可选配遥控控制。

Every door is equipped with a set of control button box, for daily operation. Optional remote control is available as additional choice.



运行可靠、具有很好的抗风及防盗功能，可运用于所有工业厂房、商业建筑、车库等。

Stable operation, good wind resistance and burglarproof performance. Suitable for all kinds of factories, commercial buildings, and garages.

手、自动两用 Auto-Manual dual operation modes

在停电、故障等紧急情况下，可以通过电机的手动链条实现手动开门、关门。

When there is power failure or breakdown, the door can be opened or closed by manual operation chain.

美观 Beautiful

门体可选所有RAL颜色，与建筑整体风格协调一致。

The surface is painted. All RAL colors can be chosen to harmonize with the overall style of building.

● 最大尺寸：宽 12m, 高 10m	Max dimension: wide 12m, high 10m
抗风等级：12 级 (35m/s)	Wind resistance: Beaufort scale 12 (35m/s)
运行速度：5-12m/min	Running speed: 5-12m/min
工作电压：单相 220V ± 15%V 或三相 380V ± 15%V, 50/60HZ	Power supply: 1-phase 220V ± 15%V or 3-phase 380V ± 15%V, 50/60HZ
门片厚度：0.8mm、1.0mm、1.2mm、1.4mm	Thickness of slats: 0.8mm、1.0mm、1.2mm、1.4mm
使用寿命：20 年	Work life: 20 years
安装方式：内装、外装、中装	Installation methods: interior installing, exterior installing, middle installing

② 铝合金卷帘门 Aluminum Alloy Roller Shutter Door RSD-ALU

良好的保温、隔音效果 Good thermal and sound insulation

门片为双层结构，可有效隔绝噪音和热传导

Double layer slats can prevent thermal conduction and noise

密封性高 Good seal

两侧导轨内置柔性密封毛刷，门体底部安装三元乙丙密封胶条，可消除间隙，减少空气对流

There is seal brush inside guide rail, and EPDM seal rubber at the bottom. Gaps at two sides and bottom are eliminated.

美观、节省空间 Saving installation space

采用内置式管状电机，一体化设计，简洁美观，体积小，节省门洞上方空间

Special design tubular motor is inbuilt into the roller. Integrated design saves space at the top.

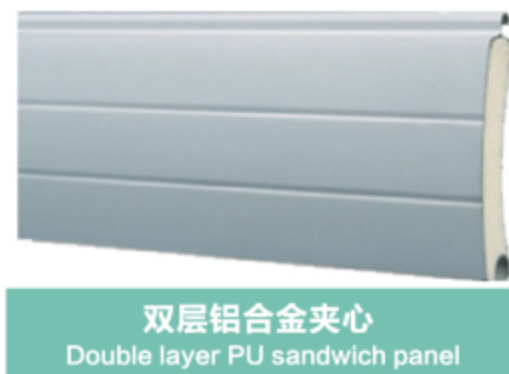


多种门片可选

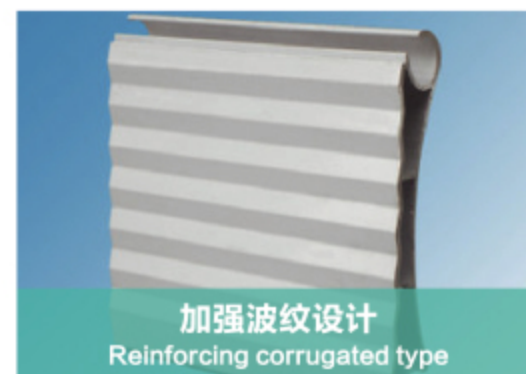
VARIOUS TYPES OF SLATS AVAILABLE



双层铝合金中空
Double layer hollow aluminum alloy



双层铝合金夹心
Double layer PU sandwich panel



加强波纹设计
Reinforcing corrugated type

标准型 standard type

保温、隔音效果好
excellent thermal and sound insulation

强度高,抗风性能好,适用于尺寸较大的门
high strength and good wind resistance, for
for very big doors

● 最大尺寸: 宽 6m,高 6m	Max dimension: wide 6m,high 6m
抗风等级: 11 级 (30m/s)	Wind resistance: Beaufort scale 11 (30m/s)
运行速度: 6~15m/min	Running speed: 6~15m/min
工作电压: 单相 220V±10%V,50/60HZ	Power supply: 1-phase 220V±10%V,50/60HZ
使用寿命: 20 年	Work life: 20 years
隔音性能: 20dB	Sound insulation: 20dB
保温性能: 阻热系数 R=11.38	Thermal insulation: R=11.38
安装方式: 内装、外装、中装	Installation methods: interior installing,exterior installing,middle installing

③ 防火卷帘门 Fire Rated Roller Shutter Door

RSD-FR



防火卷帘门应用于工业厂房、大型商场、超市等的防火分区或消防逃生通道。门体采用特制耐火材料,在发生火灾时,可以有效阻挡火势蔓延,为人员逃生、保护财产安全创造条件。配备专用消防控制箱,可以和建筑消防控制中心建立联动,在发生火灾时卷帘门可根据消防控制中心的信号,自动关闭或开启,起到阻断火势或便于人员逃生的作用。

Fire rated roller shutter door is used in fire compartment or escape passage of factories, commercial buildings, and supermarkets. Made from special fireproof material,it can prevent spreading of fire and protect life and property. The fire control panel of the door can be connected with Fire Protection Control Center of the building, to build linkage between them. When there is a fire accident, the door can open or close automatically after it receive the control signals from the Control Center. This can prevent fire more effectively and benefit quick escape of human.

根据中国GB国家标准,防火卷帘门划分为三个级别,乙级、甲级、特级。

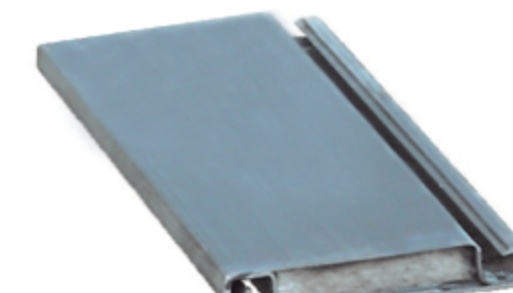
According to China national GB standard, fire roller shutter door is classified into three types, Grade B, Grade A and Grade A+.



乙级防火卷帘门 Grade B

防火时间为2小时; 门帘片采用单层镀锌钢板加工而成

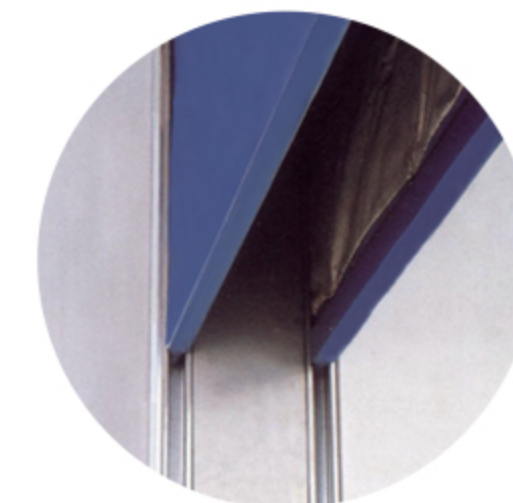
Fire rated time: 2 hours; Single layer galvanized steel slats.



甲级防火卷帘门 Grade A

防火时间为3小时; 门帘片为双层镀锌钢板材质, 中间填充耐火硅酸铝棉; 硅酸铝棉具有优良的热稳定性, 可耐高温 1200℃

Fire rated time: 3 hours; Double layer galvanized steel slats, filled with fireproof Aluminium silicate wool. The wool has excellent thermal-stability, and can resist 1200 °C.



特级防火卷帘门 (双轨双帘无机布) Grade A+

防火时间为3小时; 由两幅门帘组合而成, 门帘中间为300mm左右隔热空气层; 门帘由防辐射铝箔陶纤布、陶纤针织毯、耐高温防火布及彩色装饰布组合加工而成; 驱动系统采用单台电机驱动两套传动轴, 实两幅门帘的同步升降; 启闭速度 4.5m~7.0m/min; 重量较轻, 对建筑承载要求低

Fire rated time: 3 hours; The door panel consists of two separate curtains, with 300mm space between them. Each curtain are made from Radiation proof aluminum foil ceramic fiber cloth,Ceramic fiber knitted blanket,High-temperature resistant fire-proof cloth,and Color decorative cloth. One motor drives two rollers at the same time, realizing synchronous movement of two curtains. Running speed: 4.5m~7.0m/min.

控制方式

CONTROL METHODS

标准控制方式为单侧按钮盒, 同时可选多种消防自动控制方式

Standard operation method Control button box; Optional operation methods:



烟感
Smoke sensor



温感
Temperature sensor



遥控
Remote control



消防联动
Fire linkage

3S 工业滑升门 Sectional Door

KENVO 肯夫



优良的抗风性能 Excellent wind resistance

门板由双层钢板构成，中间填充高密度聚氨酯发泡材料，具有很高的结构强度，抗风可达11级，即28m/s。

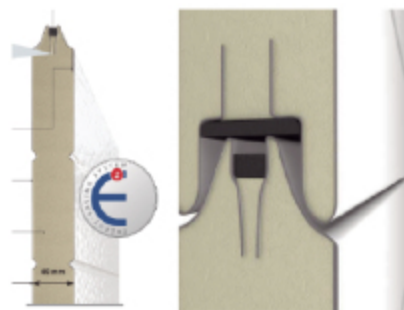
Steel sandwich door panel. Surface is double layer color steel. Middle is filled with polyurethane foam. Wind resistance: Beaufort scale 11, 28m/s



保温隔热效果好 Excellent thermal insulation

门板总厚度达到4cm，填充的聚氨酯发泡密度为42kg/m³，具有极佳的保温、隔热效果

Total thickness of door panel reaches 40mm. Density of inside PU foam: 42kg/m³. With very good thermal insulation performance.



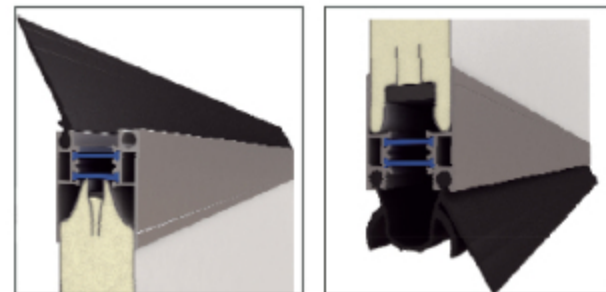
采用轨道滑升式设计，分节段门板通过可灵活转动的C型槽首尾相连，门整体可沿不同弯度的轨道平滑移动，可以满足不同门洞条件的安装。工业滑升门广泛应用于各种工业厂房、物流仓库、车库等。

Slide-running design. Door panels are connected end to end through C-type slots. Whole door body can bend flexibly and slide along guide rails with different bending shapes. Benefiting from this design, the door can be fit onto various kinds of door holes. Thus, sectional door is very widely used in all kinds of factories, logistics warehouse, and garages.

密封性 Seal

门体底部、顶部、两侧都加装 EPDM 软性密封橡胶条，具有很好的气密性

EPDM seal rubber is installed at top, bottom and two sides, gaining good air-tightness.



可高频率运行 High-frequency operation

扭簧平衡系统，大大降低了门体滑动阻力，使得驱动电机一直在低负荷下运行，即使高频率使用，也不会产生过热、传动卡阻

Torsion spring balance system counteracts most drag force during opening. Drive motor works under very light load. Thus there are no overheating and blocking even the door are operated very frequently.



人性化的控制方式 Convenient operation methods

标配控制箱按钮控制，满足日常使用；同时可选配遥控控制

Standard control button box are available at two sides for daily operation. Remote control is optional.



手、自动两用 Auto-Manual dual operation modes

在停电、故障等紧急情况下，可以通过电机的手动链条实现手动开门、关门；扭簧平衡系统的扭力经过严格受力计算，抵消门上升时的大部分阻力，手动开启只需很小的力(不高于180N)

When there is power failure or breakdown, the door can be opened or closed by manual operation chain. Balance torsion spring system counteracts most of drag-force of opening. It can be opened by hand with a little force (within 180N).

阻燃性能 Flame retardant

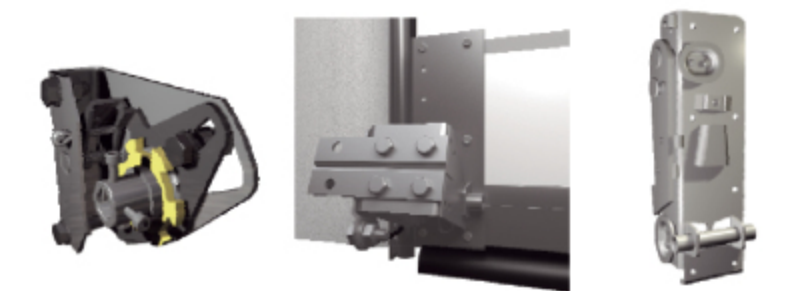
门板阻燃级别为国标GB8624 B1、欧标NF-P92-503、德国标准M2 DIN 4120 B1

Flame retardant grade: GB8624 B1, EU standard NF-P92-503, Germany standard M2 DIN 4120 B1

安全性能 Safety performance

防坠落装置，可在传动钢丝绳突然断裂时，有效防止门体坠落，防止事故发生；门体底部加装安全气囊感应，门关闭过程中如遇到障碍物，会自动停止

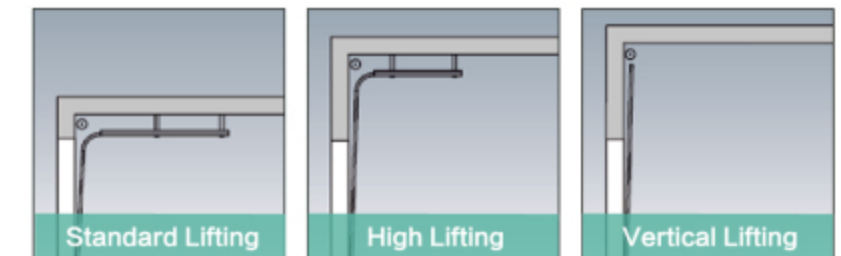
Drop-proof device installed at two sides. In case the steel wire rope is broken apart, it can prevent the door panel from falling down and avoid accidents. At the same time, safety proximity sensor is installed at the bottom. When there is obstacle under the door, it will stop automatically when touching the objects.



可选多种提升方式 Various climbing modes

标准提升 提高提升 垂直提升 斜提升

Standard climbing mode High climbing mode Vertical climbing mode Incline climbing mode



可选透视窗、通行小门 Clear window and Small man door for options

透视窗为聚碳酸酯纤维板，透光效果好。通行小门适用于人员通行较多的门洞，可降低大门整体的开启频率，便利人员通行。

Clear window is made from polycarbonate, with high transparency. Small man door is aimed to facilitate human passing, no need opening the whole door.



- 最大尺寸：宽 12m, 高 8m
- 抗风等级：11 级 (28m/s)
- 运行速度：0.2m-0.4/s
- 工 作 电 压：单 相 220V ± 10%V 或 三 相 380V ± 10%V, 50/60HZ
- 门板厚度：40mm、50mm
- 使用寿命：20 年

Max dimension: Wide 12m, High 8m.
Wind resistance: Grade 11 (28m/s)
Running speed: 0.2-0.4m/s
Power supply: 1-phase 220V ± 10%Vor
3-phase 380V ± 10%V, 50/60HZ
Thickness of panel: 40mm or 50mm
Work life: 20 years

4 Steel Swing Door



多用于工业厂房、商业建筑、民用建筑的人员通行区域，根据门洞大小，可设计成单开门、子母门或双开门。

Mainly used as human passing door of factories, commercial and residential buildings. It can be made into single leaf, unequal double leaf or double leaf.

门框和门扇均采用优质镀锌钢板加工而成，通过高强度不锈钢铰链连接，开启、关闭平顺，经久耐用。钢板表面做粉末静电喷涂处理，比传统烤漆具有更好油漆附着力和耐久性，表面颜色不易褪色、变色、剥落。

Door leaf and frame are made from galvanized steel. Surface is treated with electrostatic power coating, with much better adhesion and durability than traditional painting. The color will not fade and come off through a long period. Heavy duty stainless steel hinges are used to fix door leaf onto the frame, realizing smooth opening and closing.



SSD-STD普通钢质门 Ordinary steel door

用于常规非防火要求区域，便于人员通行和管理。门扇内部填充蜂窝纸或保温岩棉。

Fit for human passing areas without fire-protection requirements. Middle of door leaf is filled with honeycomb paper or rock wool.

SSD-FR防火钢质门 Fire rated steel door

用于建筑物的防火要求区域，可有效阻断火势并利于人员紧急逃生。根据检测和认证标准，可分为中国国标防火门、美国标准防火门和欧标防火门。

Fit for areas with requirement of fire protection. It can effectively stops spreading of fire and facilitates escape of human. It can be classified into three types according to different test standards, namely China national GB standard fire door, American standard fire door and Europe standard fire door.

根据中国国家标准，可划分为甲级、乙级和丙级，防火时间分别为1.5小时，1.0小时，0.5小时。门扇内部填充高密度防火珍珠岩板；我司防火门产品采用天然优质防火珍珠岩矿石，通过超高压化学粘合的专有工艺，将矿石颗粒牢固粘接到钢质方管骨架上；无论从致密度和粘结强度都大大优于普通的传统单板，密度达到200kg/m³，抗压强度达到690kpa。确保门体长期使用不变形、损坏，且防火隔热效果更好。

According to China national standard, fire door should be classified into three grades, Grade A, Grade B and Grade C. Fire rated time of them are 90 minutes, 60 minutes and 30 minutes. Inside of leaf is filled with high-density fire perlite board. We adopt Super-High-Pressure chemical bonding technique, to directly fix the national perlite mineral onto a steel tube skeleton steadily. Due to this unique process, our door is much better than traditional fire door with single perlite board inside, as for density and bonding force. Density of perlite: 200kg/m³; Compressive strength: 690kpa. Thus the door will not deform and damage after long-time use and also gain better fire resistance and thermal insulation.

美国标准防火门是国际上认可度最高的防火门，可以在除欧洲、澳洲以外的大多数国家通过当地的消防验收。我们可提供WH、FM和UL三种美国标准证书防火门。防火时间最高可达3小时。

American standard fire door is most widely accepted. Complying with UL 10C and NFPA 252 norm, it can pass through local official fire audits in most countries of the world, except Europe and Oceania. We can offer fire doors certified by WH, FM or UL organizations. Fire rated time reaches up to 3 hours.



欧标防火门，符合欧盟标准EN1634-1防火标准，在欧盟国家被广泛认可。防火时间最高可达2小时

Europe standard fire door, complying with EN 1634-1, widely accepted in Europe countries. Fire rated time reaches up to 2 hours.

可选配部分

OPTIONAL PARTS

五金件 Hardware

双面把手锁 Leveler handle lock
闭门器 Door closer
逃生推杠锁+外把手锁 Panic device+trim
门挡 Door stopper
插销 Bol
门吸 Door holder



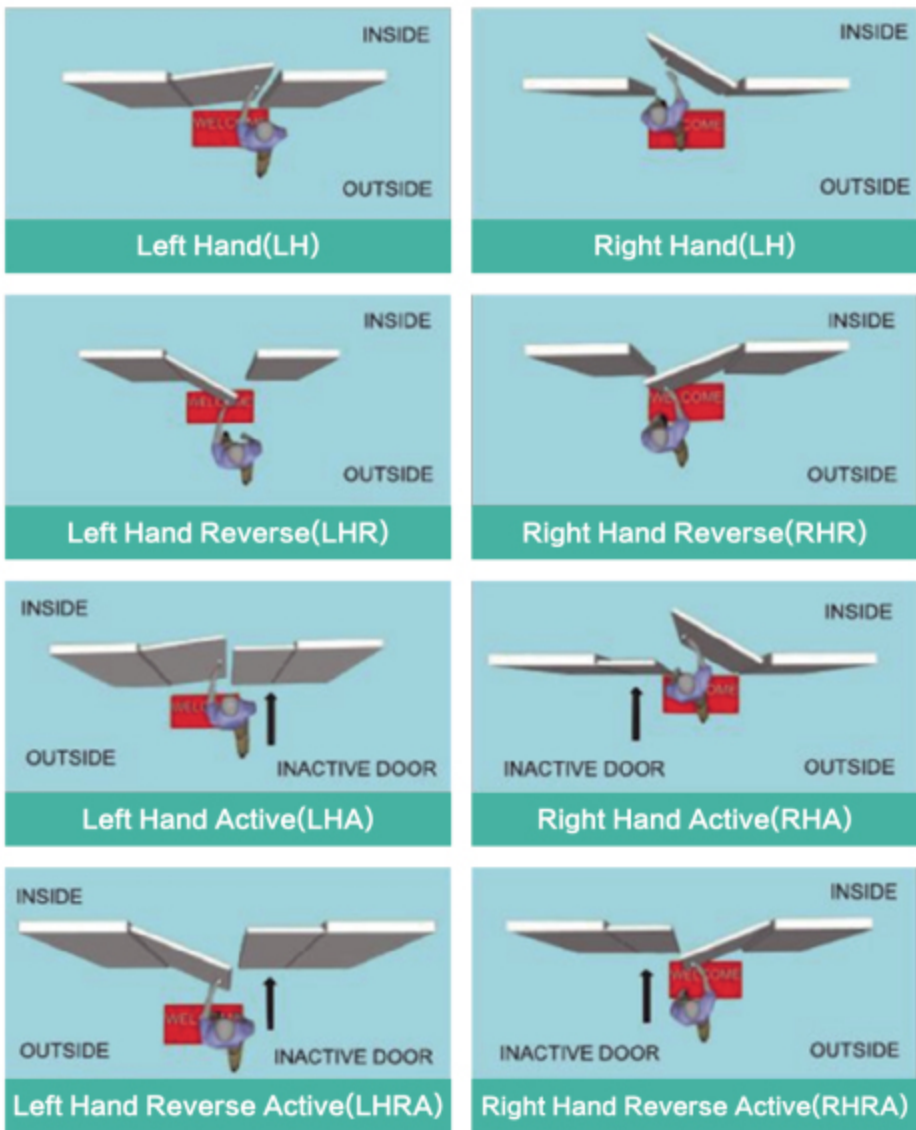
视窗 Window

安全玻璃或防火玻璃 Safety glass or Fire glass

门槛 Threshold

304不锈钢材质 stainless steel

开启方向 Handling direction



表面颜色 Color

所有 RAL 颜色可定制
All RAL colors available



5C 洁净室门窗

Clean Room Door and Window



洁净室专用门窗，具有区别于普通门窗的特殊设计，具有如下独特功能。

1. 防腐蚀；2. 避免结尘；3. 易于清洁；4. 平面无缝设计；5. 高密封性
因此，广泛应用于食品、制药、实验室、医院、电子等行业的洁净室或无尘车间。符合国内外食品级、GMP药品级行业标准。

It is a metal swing door installed in all kinds Clean Rooms. There are several unique features to meet special requirement of such buildings, listed as follows:
1.Rust-proof; 2.Free from dust retention; 3.Easy for cleaning; 4.Seamless and Pure plain; 5.Air tight.

Thus, it is widely adopted in food& drug factories, laboratories, hospitals, micro-electronics factories, where there is extreme high demand for hygiene and cleanliness. And it comply with international Food-grade and GMP Pharmaceutical standards.

门扇Door leaf

采用0.8-1.0mm厚优质镀锌钢板或304不锈钢材质。内部填充高密度蜂窝纸或保温岩棉。

Surface is 0.8 or 1.0mm thick painted galvanized steel or 304 stainless steel. Inside is filled with high-density honeycomb paper or rock wool.



门框Door frame

采用1.2-1.5mm优质镀锌钢板或304不锈钢板。

It is made from 1.2mm or 1.5mm thick painted galvanized steel or 304 stainless steel.

密封结构Seal structure

门框和门扇接触区域，采用三元乙丙橡胶密封。在门扇与地面之间，加装特殊的自动升降式密封条，可在门扇关闭时自动伸出，消除地面间隙。

There are all-around EPDM weather seal rubber between frame and leaf. Further more, automatic seal rubber is installed at the bottom of the door leaf. It will automatically get down and close the gap with ground floor when door closed.



视窗Vision Panel

特殊的双层中空结构。两面为5mm厚钢化安全玻璃。中间为中空结构，填充防潮湿硅胶，有效避免结露。总厚度与门扇相同，达到50mm，因此和门扇表面平滑无缝隙，有效闭门积尘且易于清洁

Special clean room glass. It is made from double layer tempered safety glass. Its surface is on the same plane with door leaf, to avoid dust retention and realize easy cleaning

安装墙体Fitting Wall Types

可根据不同的洁净室墙体定制门框设计，匹配安装。常规为50mm、75mm或100mm夹心板墙体，也可配套混凝土土建墙体

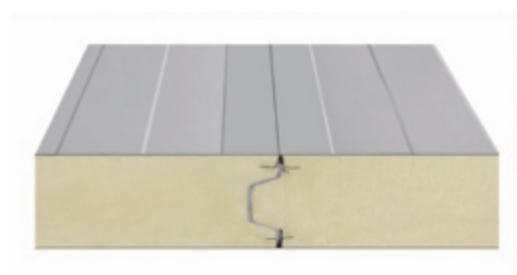
Door frame can be customized to fit different clean room walls. The standard wall is 50mm, 75mm and 100mm sandwich panel wall. And other thickness can be customized. Concrete wall can also be fitted.

6 平移门 Sliding Door



门板由聚氨酯夹心钢板构成，通过灵活转动的滚轮，将门板吊挂在上方导轨上，实现门板平顺、轻便的左右滑动。保温、隔音、防盗、运行可靠、低故障率，多用于工业厂房的大门。根据现场门洞大小和空间，可以选择双扇开启或单扇开启

Door leaf is made from Polyurethane sandwich panel, suspended onto top guide rail by guide wheels. The leaf runs smoothly along the top guide rail when door opening or closing. Such door is mostly used as main entrance door of factories, because of good thermal and noise insulation, guard against theft, stable operation and low fault rate.



手动型 Manual type

门扇内、外立面均有把手，便于人员手动开门、关门。吊轮采用特制耐磨尼龙材质，大大降低与上导轨间摩擦系数，使得门扇滑动轻便，即使单个人员也可轻松移动门扇。

最大尺寸：宽8m、高6m

Handles are available at both outside and inside, convenient for manual operation. Top guide wheels are made from special nylon or polished steel, reducing its frictions with top guide rails. The door leaf can be moved by single person very easily.

Max dimension: Wide 8m, High 6m



电动型 Motorized type

配备高品质专用开门机，实现门的自动运行。

最大尺寸：宽15m、高10m

High quality integrated drive motor, specially designed for sliding doors.

Max dimension: Wide 15m, High 10m



内置控制模块，简洁式一体化设计。通过遥控控制门的运行，便于日常的操作和管理。
启动力矩大、运行平稳可靠
停电时可脱离离合器，用手推动门体，实现手动开门、关门
内部设置温度保护器（电机升温达到额定值时，电机自动断电进行保护）

Built-in electric control board
Remote control for daily operation
Big start torque and stable running
Brake can be released to realize manual operation in case of power failure
Over heat protection mechanism

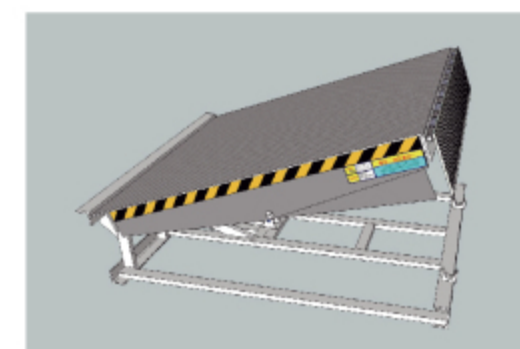


现代物流仓储，对高效率、高安全的货物转运有越来越高的要求。通过将快速运行的滑升门、可调节台面的装卸平台和密封防护的门罩组合使用，实现货运车辆和仓库的高效率、高密封的无缝对接，大大提高货物转运的速度和安全性。

Modern logistics warehousing industry has higher demand for efficiency and safety of goods transferring. To meet this trend, high-speed sectional door, adjustable dock leveler, and seal dock shelter are combined as a whole working station, realizing fast and sealed connection between trucks and warehouse.

7 物流装卸系统 Logistics System

① 装卸平台 Dock Leveler



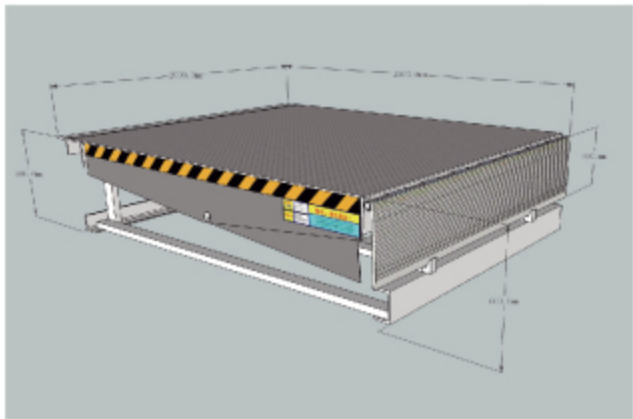
广泛应用于物流中心、仓库、工厂收发货区，可大大提高货物转运的效率。通过液压站电机驱动台面升降，将室内地面与货车车厢地面无缝对接。便于通过叉车等工具快速装卸货。

Widely used in logistics centers, warehouses and despatch area of factories. It can obviously improve efficiency of goods transferring. A hydraulic motor drives the platform up and down, realizing seamless joint between room ground and truck floor. Forklifts can transfer goods quickly.

载重稳定性 Weight-load stability

调节平台总成，标称载重量加负荷 20%，静压 24 小时，形变小于 3mm，撤除压力后，形变恢复。

The overall assembly can bear 120% load of standard nominal load capacity. Under static pressure of 24 hours, the deformation is within 3mm. And after pressure released, the deformation will recover.



台面 Platform ground

采用高强度加厚钢板，表面铣槽防滑

Platform ground is made from high-strength 8mm or above thick steel plate. Surface is processed with groove milling to make it anti-skid.

铰链和转轴 Hinge and shaft

经过超高温热处理，确保最小形变

Are Super-high-temperature Heat Treated, To Reduce Its Deformation

驱动系统 Driving system

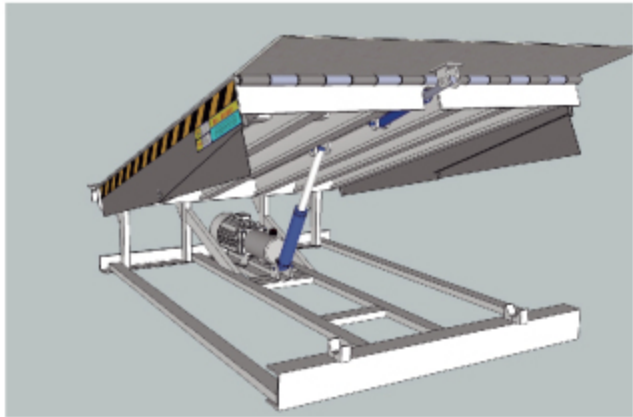
采用整套欧洲进口液压站工作系统，动力输出平稳可靠；低工作油温，可高频率使用；密封性高，无油液渗漏

Whole set of hydraulic drive station is imported from Europe, with stable power output. It can work under high frequency because of very low work temperature of oil. High standard seal avoids oil leaking.

表面处理 Surface treatment

采用耐磨环氧树脂油漆喷涂，长期使用不发生脱落、掉色，耐腐蚀性强

Coated with epoxy resin paint, very durable and high anti-corrosive.



- 工作电压：单相 220 ± 10%V, 50/60hz 或三相 380 ± 10%V, 50/60hz
- 电机功率：0.75KW~2.2KW
- 标准尺寸：2500*2000*600(可定制)
- 承载重量：6 吨 / 10 吨 / 15 吨
- 调节范围：-300mm 到 +350mm

Power supply: Single-phase
220 ± 15%V, 50/60HZ, or 380V ± 15%V, 50/60HZ
Power of motor: 0.75KW~2.2KW
Standard size: 2500*2000*600 (can be customized)
Load capacity: 6000KG/10000KG/15000KG
Adjusting scope: -300mm to +350mm



② 门封 Dock shelter

用于装卸货出口与货运车辆间的密封，在装卸货的过程中，有效保护货物，并避免外界空气、粉尘等进入室内，造成污染。

Used for seal between dock and trucks. It can protect goods and avoid pollution of exterior air and dust during the loading and unloading process.



机械式门封 Mechanical Dock Shelter

适用于货运车辆形式不统一的装卸货区的密封；可伸缩式设计，采用两根平行方管构成骨架。在货运车辆尾端接触时，可自由回缩，实现不同车型车辆与装卸货口的灵活对接；车辆驶离后，门封挂帘在自重的作用下自动伸出，恢复原状。

Fit for docks working with different types of trucks. It is retractable design. Two parallel steel tubes form the main skeleton. When trucks touch the shelter, it will retract flexibly and join closely with trucks of different types. After trucks leave, it will recover automatically under self-weight effect.

- 颜色：黑色
- 纤维层数：2层
- 纤维种类：横向稳定聚酯丝
- 表层材料：法国进口聚酯织物
- 底层材料：法国进口聚酯织物
- 总厚度(mm)：2.0~3.0
- 重量(kg/m2)：2.7
- 拉断强度(N/mm)：150
- 1%延伸时受力(N/mm)：8
- 最大生产宽度(M)：2.0
- 耐温范围(℃)：-20/+80
- 横向稳定性：是
- 防火级别：欧洲二级标准(离火自熄)
- Color: Black
- QTY of fabric layers: 2
- Fabric type: Horizontal polyester
- Surface material: PVC fabric
- Basic material: PVC fabric
- Thickness of front fabric(mm): 3.0
- Density(kg/m2): 2.7
- Thickness of lateral fabric(mm): 0.8mm
- Retractable metal frame: Zinc steel/Aluminum alloy
- Tear strength(N/mm): 150
- 1% Stress(N/mm): 8
- Max width (M): 5
- Work temperature(℃): -20/+80
- Horizontal stability: Yes
- Fireproof grade: EU Grade II



海绵门封 Sponge Dock Shelter

适用于货运车型较为统一的装卸货区，可提供高效的密封、保温隔热性能

Fit for docks working with uniform trucks. It can realize effective seal and thermal insulation.



结构及海绵 Structure and sponge

采用电镀钢板衬垫或防腐实木衬垫，完全贴合墙体，门封内部填充高压缩海绵，密度为 30KG/m³；衬垫截面尺寸：300mm × 300mm；独特的减压设计有效减少了货台、门封与货车之间的摩擦，延长门封面料的使用寿命。

The back structure is made from galvanized steel plate or anti-corrosive solid wood, touching with the wall closely. Inside is filled with highly compressed sponge, with density of 30KG/m³. Size of section: 300mm × 300mm. Special pressure-relief design can reduce the friction with dock and trucks. This will prolong work life of surface fabric.

门封织物 Surface fabric

有自熄功能的PVC帘布，重量为800g/m²，在门封两侧和上沿帘布添加百叶褶，可以承受持久耐磨压挤；

Made from PVC fabric with self-extinguishing function. Weight: 800g/m². There are fabric shutter folds on top beam and two side columns. Thus it can endure long-time friction and squeezing.

8 G 玻璃门 lass Door

充气门封Inflatable Dock Shelter

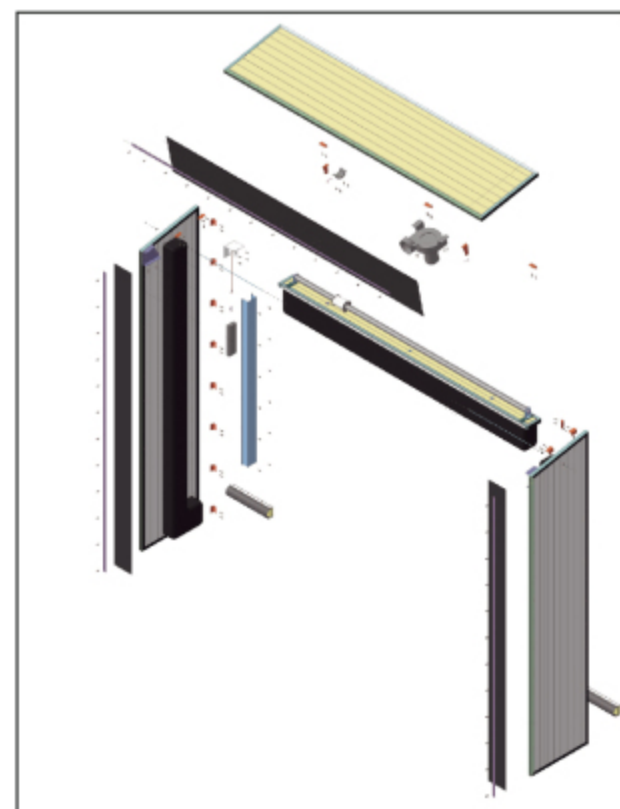
充气门封上部 and 两侧为多层堆叠式气囊构成，由高耐磨性、高韧性的聚酯纤维材料加工缝制而成。在装卸货时，门封自带的高效气泵会给气囊快速充气，膨胀的气囊紧紧包裹车厢，起到极佳的密封和保温效果。同时，气囊的柔软弹性使得门封可适合不同大小的车厢。因此，充气门封适合于保温、密封要求都较高的场所，如食品、制药、冷链、电子等仓库。

Two sides and top part are PVC fabric material airbag. When working, the automatic air pump blow air into the joined air bags, to fill the space between door and truck containers. Inflatable dock shelter adapts accurately to various size of lorry. It offers excellent sealing properties and for the most part prevents outdoor temperature reaching warehouse. Thus it is fit for areas with high demand for both thermal insulation and air-tightness, like food and pharmaceutical warehouses.

顶部和侧边 Roof and side cladding

顶部和侧边为40mm厚聚氨酯夹心板构成，保温效果好。固定件为优质阳极氧化铝合金材质，坚固美观

Thermal insulated steel sandwich panels, 40mm thick, with aluminum corner profiles.



前部面板Flexible front strips

双层聚氯乙烯结构，总厚度达3mm，表面采用双面涂层处理，经久耐磨

2-layer, elastic substrate of polyester, PVC-coated on both sides, reaching 3mm thick.

气囊结构Durable air bag

高强度高耐磨防水尼龙刀刮布材质，可耐紫外线和化学腐蚀。

Made from weather-proof hard polyester fabric, with high strength and friction-resist.

标准尺寸Standard size

W3400mm*H3600mm



玻璃平开门 Glass Swing Door



玻璃平开门 Glass Swing Door

门体主体由门框和门扇构成，通过蝶形铰链或地铰链实现门扇的绕轴开启、关闭。门框和门扇骨架可选择烤漆钢板或不锈钢材质包边。

It consists of door frame and door leaf. Equipped with butterfly hinges or floor hinges, the door can be opened or closed by swinging. Material is painted galvanized steel or stainless steel.

钢化安全玻璃 Tempered glass

通过国家3C强制性认证

China 3C Security certified

蝶形铰链 Butterfly hinges

配合闭门器实现门的自动关闭

Work with door closer to realize auto closing

地铰链 Floor hinges

集成自动关门功能

With auto closing function

把手 Handle

标准款 Regular-length 长款 Full-length

锁芯 Cylinder lock

玻璃自动门 Automatic glass door

由上导轨、门扇、驱动机组、感应雷达构成。一般为双扇双向开启。感应雷达探测到位于门前方的人或物体时，向驱动机组发出开门信号，电机运转，牵引门扇沿上导轨平顺滑动。人或物体离开后，门会保持开启数秒钟，之后自动关闭。

It consists of top guide rail, door leaf, drive system and radar. Normally whole door is separated into two leafs. When the radar detects human or other objects in front of the door, it will send a signal to the motor. Then the door will open automatically along the guide rail. After human or objects leave, the door will keep open for several seconds and then close automatically.

欧洲进口驱动机组，运行平滑静音

Europe-imported drive system, smooth and silent running

欧洲进口感应雷达，探测灵敏可靠

Europe imported radar, with excellent detecting sensibility

配备安全感应，门关闭时如遇障碍物，可自动停止

With safety sensor, the door will stop closing if it touches obstacles

遥控按钮控制，便于管理人员根据需要控制门的启闭

Remote control, convenient for daily operation

锁止装置，在不需要门自动感应启闭时，可将雷达感应关闭

Lock-up device. Radar function can be closed when there is no need of automatic operation

可选配门禁系统，有效控制人员通行权限

Access control system can be chosen, to master passing authority

玻璃自动门 Automatic glass door





9 柔性大门 Fabric Mega Door

柔性大门的宽度和高度可达数十米，为特种超大型自动门。多用于造船厂、大型喷砂或喷漆车间、飞机库、大型机械设备制造、矿产加工等特殊行业。

Special type super big automatic door, widely used in shipyard, blasting or painting room, hangar, and large machinery factories.

- 门洞最大尺寸：宽 50000mm, 高 30000mm
Max dimension: Wide 50000mm, High 30000mm
- 开启、关闭速度：0.2-0.6m/s
Opening and closing speed: 0.2-0.6m/s
- 抗风压：12 级或以上 (35m/s 或以上)
Wind resistance: Beaufort Grade 12 or above (35m/s or above)
- 设计使用寿命：50 年
Work life: 50 years
- 工作电压：三相 380V ± 15%V, 50/60HZ
Power supply: 3-phase 380V ± 15%V, 50/60HZ
- 布帘可选颜色：
Optional colors of fabric: Blue, Yellow, Red, Grey, White, Clear



机库 Hangar



表面为聚氯乙烯布帘材质，内外双层，美观，具有一定隔音性
Surface is PVC fabric, double layer and beautiful.

门体骨架为方管结构，是经严密精准的国际通用钢结构计算设计而成，满足对抗风压的要求

Main skeleton is formed with steel tubes. It is designed through precise structure calculation with universal steel structure software, meeting requirements of wind resistance.

防坠落安全装置，可在钢丝绳意外断裂时，防止门体下坠，保护人员安全

Safety Drop-proof device, can stop falling of door body when the steel wire of motor breaks suddenly, protecting human life under the door.

多重限位控制，确保门的运行精准无误

Multi-limit design guarantees precise running.

点动控制，确保门运行时都有人员在场控制，有效避免人员疏忽导致的事故

Inching control design makes sure there will always be a human operating the door when it runs. This can avoid accidents caused by human-absence.

高安全系数电机和钢丝绳传动，运行可靠

High safety class of motor and steel wire, guarantees reliable operation.



造船业 Shipyard industry



大型机械 Large-scale machinery

10 机库门 Hangar Door

机库平移大门，是专门为民用机场、军用机场、飞机制造厂等的停机库，设计的特种电动大门。大门为下称重、上导向设计，可分为两组或多组门扇。每个门扇有单独的一套驱动系统，可独立双向移动，自由开启。门体骨架结构为高强度型钢结构，内外表面覆盖外装饰部分。

Hangar Door is specially designed for hangars of civil or military airports and aircraft factories. Top guide rail guides running direction and ground guide rail bears the weight. It may consist of two or more sets of door leaves. Every door leaf has its own driving system and control unit, so it can move separately in two directions. Inside skeleton is high-strength steel structure. Surface is paved with cladding material.

多种外装饰板可选

VARIOUS CLADDING MATERIAL FOR OPTIONS

压型彩钢板 Corrugated steel plate

采用优质热镀锌彩钢板，耐化学腐蚀，屈服强度不低于540Mpa。造价低、强度高、可随意切割，安装简单，免维护，且可根据需要指定颜色，实现建筑整体美观统一。

Painted galvanized steel, with excellent anti-corrosive performance. Yield strength: above 540Mpa. Low cost, High strength, High-machinability, Easy installation, Low maintenance, - Customized color harmonizing with overall building style.

聚氨酯夹心板 Polyurethane sandwich panel

双层钢板结构，中间填充无氟环保型聚氨酯发泡材料，密度达43kg/m³，保温、隔音效果好。

Double layer steel, filled with freon-free and environmental friendly PU foam, with density of 43kg/m³. Excellent thermal and noise insulation.

聚碳酸酯阳光板 Polycarbonate sunlight board

新型有机材料，表面覆盖0.5mm厚紫外线保护层；多层设计，隔音系数为22dB,隔热系数为1.4W/m²℃，透光率达67%。

Newly-developed organic material. Surface is covered with 0.5mm ultraviolet protection layer. Noise insulation: 22db; thermal insulation: 1.4w/m²℃; light transmittance: 67%

玻璃幕墙 Glass curtain wall

中空玻璃幕墙设计，玻璃幅面占门扇总幅面的比例可达80%以上，透光率高、透视效果好，体现建筑立面的整体美学设计。

Hollow curtain wall structure. Glass accounts 80% or above area of door panel, with high light transmittance and good vision, showing beauty of building.

- 门洞最大尺寸：宽 20000mm, 高 3000mm
- 门体厚度：200-800mm
- 开启、关闭速度：0.15-0.4m/s
- 抗风压：12 级以上(35m/s 或以上)
- 设计使用寿命：50 年
- 工作电压：三相 380V ± 15%V, 50/60HZ
- 导热系数：2.0-2.5W/ m² .k
- 工作温度：-30~+60 摄氏度

Max dimension: Wide 20000mm, High 3000mm

Total thickness: 200-800mm

Running speed: 0.15-0.4m/s

Wind resistance: Beaufort Grade 12 or above (35m/s or above)

Work life: 50 years

Power supply: 380V ± 15%V, 50/60HZ

Thermal insulation: 2.0-2.5W/ m² .k

Work temperature: -30~+60℃



控制系统 Control system

单控和总控两种方式，可单独控制某个门扇，也可同时控制所有门扇

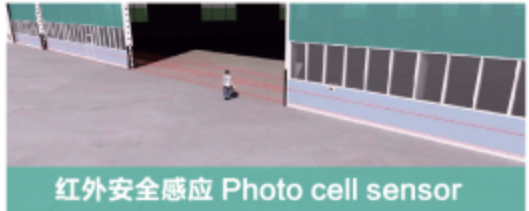
Both Single control and Total control adopted. The operator can control one single leaf separately or control all leafs at the same time.

PLC变频控制，实现柔和启动、停止，有效保护电机，确保运行平稳

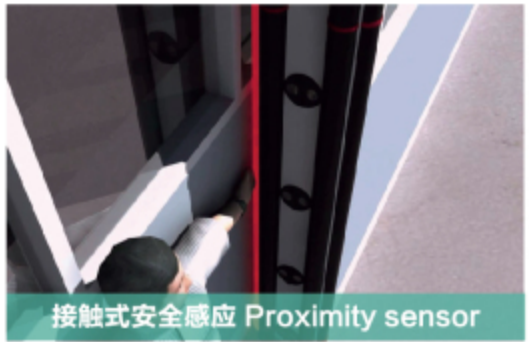
PLC and inverter control can realize soft start and stop, protecting the motor.

集成了多重安全元件，确保人员或物品安全通行

Equip various safety devices to guarantee safe passing of human or objects.



红外安全感应 Photo cell sensor



接触式安全感应 Proximity sensor

安全性能 Safety performance

声光报警 Light And Sound Alarm

红外安全感应 Photo cell sensor

接触式安全感应 Proximity sensor

联动保护 Interlocking design

应急启闭设计 Emergency operation mode

在断电或故障情况下，可释放电机刹车，通过拖车或人力牵引门扇移动，实现应急开门、关门

When there is power failure or other faults, the brake of motor can be released. And then the door can be moved by a trailer or human force, realizing emergency opening or closing.

11T 防撞自由门

Traffic Door



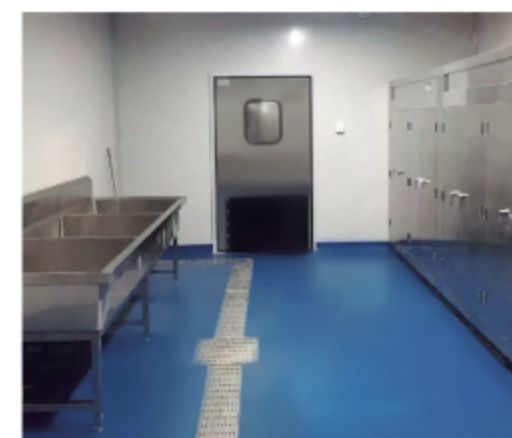
门体厚度为 20-40mm，中间填充高性能保温材料，门板表面为高强度不锈钢板或 ABS 树脂板，具有良好的耐冲击、耐低温、耐高温、耐化学性能和防腐抗潮效果。使得门体可进行有水作业并易于冲洗。自由门门体两侧加装防撞橡胶板。具有坚固，耐冲击，使用寿命长等特点。满足了各种工业环境要求，工作人员可驾驶叉车或推着小车直接轻撞把门打开，使出入极为便捷、高效。自由门广泛用于食品加工、制药、卖场、邮政、超市、仓库的隔离、通道门。

Door panel thickness: 20-40mm. Inside is filled with thermal-insulation material. Surface is high-strength stainless steel or ABS resin plate. With excellent crashworthiness, cold resistance, high-temperature resistance, chemical resistance, and anti-corrosive. It can work under very humid environment and be washed directly with water. Anti-collision rubber plate is installed at bottom of door leaf. The staff can drive forklifts or trolley to hit the door open directly. This improves passing efficiency obviously. Traffic door is widely used in food and drug factories, shopping center, post center, supermarket, and warehouse.

规格尺寸 Sizes

单开门 600 ≤ 宽 ≤ 1200mm, 1800 ≤ 高 ≤ 3000mm
双开门 1200 ≤ 宽 ≤ 3000mm, 1800 ≤ 高 ≤ 3000mm

Single Door 600 ≤ width ≤ 1200mm, 1800 ≤ height ≤ 3000mm
Double Door 1200 ≤ width ≤ 3000mm, 1800 ≤ height ≤ 3000mm



自动复位 Auto-Closing

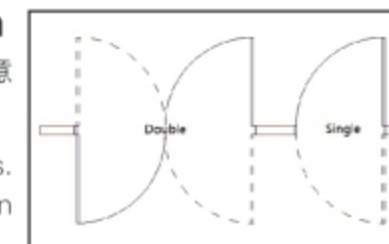
自由门门轴采用偏心轴设计，使门沿门轴心线方向倾斜，从而产生一个和开门方向相反的力，从而达到自动复位的目的。

Door axis is special eccentric design. The door body leans along the axis, generating a force reverse with opening direction. Thus the door will close automatically.

双向自由开启 Free Double Acting Design

门扇可向内向外双向自由开启，人员和车辆可从任意方向通行，可大大提高工作效率。

Door leaf can open to both inside and outside directions. Thus staff or vehicles can pass the door very easily in both sides. This can improve the work efficiency a lot.



可视窗 Clear window

便于观察门对面情况避免发生碰撞。采用双层有机玻璃窗材质，符合安全标准，门体长期遭受碰撞条件下也不易于损坏。即使特殊情况下发生损坏，也不会像普通玻璃那样碎裂，避免对人员造成伤害和污染环境。常规尺寸 400*450，窗口形状及尺寸可订制。

The staff can see the opposite side through the window, and avoid crashing accidents when passing the door. Double layer PMMA material, complying with security requirements. It will keep in good condition after long-time frequent crashing. Even if it got broken, it will not break into pieces like regular glass. This can avoid harming human or polluting the environment. Standard size: 400mm*450mm. Shape and sizes can be customized.

双面防撞胶板 Anti-collision rubber plate

弧形设计，具有很好的结构弹性，可耐受高频率撞击，不发生变形、老化

Arc shape with very good structure elasticity. It can endure frequent collisions.



12C 冷库门

Cold-storage Door

用于冷藏库、冷冻库、船用冷库、恒温车间等环境。在库内外温差大于 50℃，相对湿度大于 90% 时能起着良好的隔热、密封效果。

Used in all kinds cold storage, cold room and Constant-temperature workshop. It offers excellent thermal insulation and seal in areas with big temperature difference higher than 50℃ and humidity of 90%.

13C 水晶卷帘门 Crystal Roller Shutter Door



工作温度: -60~+120℃
Work temperature: -60~+120℃

门板为聚氨酯夹芯钢板, 通过高压发泡机自动灌注聚氨酯, 整体发泡, 一次成型, 具有更可靠的保温和隔热性能。

Polyurethane sandwich panel, forged at one time with high-pressure Foaming machine, with better thermal insulation than traditional panel.

多种门扇厚度可选配 Various thickness of door panel
75mm, 100mm, 150mm, 200mm

可双扇开启或单扇开启
Single or Double leaf design available

手动开启或电动开启, 高强度尼龙滚轮转动平滑易于推拉
Manual or Motorized types available. Nylon wheel sliding smooth and easy for pulling.

良好的密封性 Good seal

门扇与门扇之间, 门扇与墙体时间, 均安装软性EPDM三元乙丙橡胶作为密封, 耐低温、耐化学腐蚀、耐老化

EPDM seal rubber is installed between door leafs and between door leaf and wall. It is of good resistance of cold, chemical and aging.

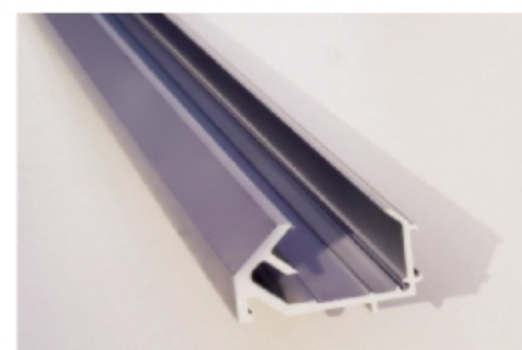
轨道采用变线式设计, 门到位时, 会自然下落并压紧门槛及地坪; 门开启时会同步离开门槛并上升, 减少了密封条与门槛、地坪的摩擦, 延长了密封条的使用寿命。

Guide rail is modified-line design. When closing, the door leaf will get down and touches the ground closely. At the same time, it will get closer with the wall to close the gaps. When opening, it is reverse. This can reduce the friction of seal rubber with floor and wall, and prolong its work life.

安全性高 High safety

当工作人员误锁在库内时, 只要稍拉动内脱险环, 门即可顺利打开, 从库内脱险, 确保人身安全。

In case the door is locked from outside when some staff is still inside, the door can be easily opened from inside by pulling emergency safety ring. This can protect human life.



大面积采用有机透视玻璃作为门体材料, 透光率高, 视野好, 提升了整体美观效果和审美层次。适用于商场、临街店铺、银行、展厅等对美观、视觉效果要求较高的区域。

Door panel is made from massive fiber glass, with high light transmittance and good vision. It can enhance overall beauty of the building, fit for commercial stores, banks, showrooms, where there is high demand of appearance.

最大尺寸 Max dimension: W120000,H6000

CRSD-ALU

铝合金边框型 Aluminum alloy type

采用高强度6063铝合金作为框架, 嵌入有机高分子透视玻璃, 美观、高档, 坚固耐用, 抗压性强, 可达285kgf/m²。

High-strength 6063 aluminum alloy is adopted as the rim of slats. Fiber glass is inserted into it. Beautiful and High-grade. Wind resistance: 285kgf/m²

CRSD-SS

不锈钢穿管型 Stainless steel type

有机玻璃片具有特殊筒形圆孔, 将高强度不锈钢圆管穿入圆孔, 实现帘片的连接。门片为加宽设计, 整体采光、透视效果更好。

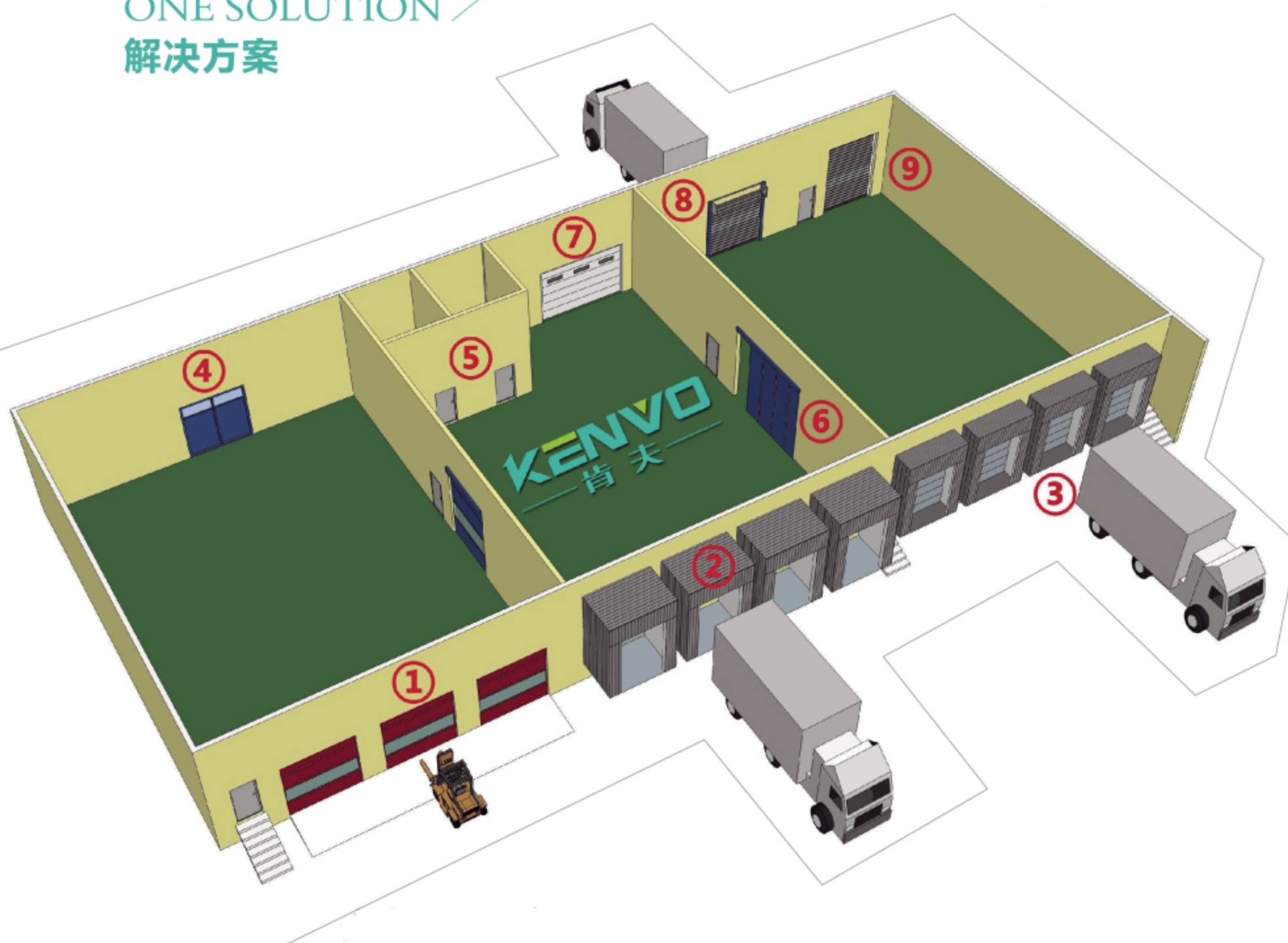
There are tube holes on the slats. A stainless steel round pipe is put through these holes and connect the slats together. With excellent light transmittance and vision.



03

ALL-IN-ONE SOLUTION 解决方案

- ① 快速卷帘门 Rapid Roller Door
- ② 门封 Dock Shelter
- ③ 装卸平台 Dock Leveler
- ④ 双开钢质门 Double Steel Door
- ⑤ 单开防火钢质门 Single Fire Door
- ⑥ 平移门 Sliding Door
- ⑦ 滑开门 Sectional Door
- ⑧ 铝合金硬质快速门 Aluminum Rapid Roller Door
- ⑨ 电动卷帘门 Roller Shutter Door



针对工业厂房中的不同区域，我们提供特定的门类产品，满足该区域的实际需求，使得工厂运营效率更高、效益更大。

For different areas of an industrial building, we offer customized specific type of doors, to meet special need at this location, improving overall work efficiency of the factory.

04

PROJECT CASES

PROJECT CASES

PROJECT CASES 工程案例

客户Clients	地址Address	门种类Door Type	行业Industry
 万向集团 WANXIANG GROUP	杭州 Hangzhou	铝合金硬质快速门 Aluminum Rapid Roller Door	汽车配件制造 Car industry
 CHNT 正泰	乐清 Leqing	快速卷帘门 Rapid Roller Door	电子 Electronics
 同洲电子 COSHIP ELECTRONICS	深圳 Shenzhen	快速卷帘门、防火门 Rapid Roller Door, Fire Door	电子 Electronics
 沙钢集团 SHAGANG GROUP	张家港 Zhangjiagang	快速卷帘门 Roller Shutter Door	冶金 Steel
 Midea	芜湖 Wuhu	工业滑开门 Sectional Door	电器 Electrical equipment
 南通三建	武汉 Wuhan	防火门、防火卷帘门 Fire Door, Fire Roller Shutter Door	建筑 Construction
 Schneider Electric	天津 Tianjin	平移门 Sliding Door	电子 Electronics
 3M	上海 Shanghai	快速卷帘门 Rapid Roller Door	化工 Chemical
 AstraZeneca 阿斯利康	上海 Shanghai	快速卷帘门 Rapid Roller Door	制药 Pharmaceutical

客户Clients	地址Address	门种类Door Type	行业Industry
	苏州 Suzhou	快速卷帘门 Roller Shutter Door	电子 Electronics
	上海 Shanghai	滑升门、装卸平台、门罩 Sectional Door, Dock Leveler, Dock Shelter	仓储物流 Logistics
	上海 Shanghai	快速卷帘门 Rapid Roller Door	制药 Chemical
	上海 Shanghai	快速卷帘门 Rapid Roller Door	制药 Chemical
	上海 Shanghai	滑升门、防火门 Sectional Door, Fire Door	机械制造 Machinery
	合肥 Hefei	防火卷帘门 Fire Roller Shutter Door	商场超市 Store
	上海 Shanghai	冷库门 Cold-storage Door	食品 Food
	上海 Shanghai	快速卷帘门 Rapid Roller Door	电子 Electronics
	上海 Shanghai	平移门 Sliding Door	机械制造 Machinery
	郑州 Zhengzhou	防撞自由门、冷库门 Traffic Door, Cold-storage Door	食品 Food
	上海 Shanghai	快速卷帘门 Rapid Roller Door	化工 Chemical
	西安 Xian	快速卷帘门 Rapid Roller Door	制药 Chemical
	上海 Shanghai	工业滑升门 Sectional Door	机械制造 Machinery
	北京 Beijing	防撞自由门 Traffic Door	制药 Chemical
	合肥 Hefei	快速卷帘门 Rapid Roller Door	化工 Chemical
	东营 Dongying	防火卷帘门 Fire Roller Shutter Door	房地产 Real estate

客户Clients	地址Address	门种类Door Type	行业Industry
	上海 Shanghai	快速卷帘门 Roller Shutter Door	化工 Chemical
	无锡 Wuxi	快速卷帘门、滑升门 Rapid Roller Door, Sectional Door	电器 Electrical equipment
	大连 Dalian	快速门、防火门 Rapid Roller Door, Fire Door	制药 Chemical
	青岛 Qingdao	平移门 Sliding Door	电器 Electrical equipment
	上海 Shanghai	防火门 Fire Door	房地产 Real estate
	苏州 Suzhou	滑升门 Sectional Door	电子 Electronics
	沈阳 Shenyang	铝合金硬质快速门 Aluminum Rapid Roller Door	汽车制造 Car industry
	上海 Shanghai	快速卷帘门、防撞自由门 Rapid Roller Door, Traffic Door	食品 Food
	无锡 Wuxi	快速卷帘门、钢质门 Rapid Roller Door, Steel Door	电子 Electronics
	无锡 Wuxi	防火卷帘门 Fire Roller Shutter Door	商场超市 Store
	印尼 Indonesia	柔性大门 PVC Mega Lifting Door	机械制造 Machinery
	上海 Shanghai	快速卷帘门 Rapid Roller Door	电器 Electrical equipment
	徐州 Xuzhou	电动卷帘门、防火门 Roller Shutter Door, Fire Door	机械制造 Machinery
	上海 Shanghai	铝合金硬质快速门 Aluminum Rapid Roller Door	汽车制造 Car industry