



V-SIGN INDUSTRIAL CO., LTD

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

HIGH SPEED PVC (SOFT) DOOR

1. Description

High speed (soft) PVC door is suitable for door opening conditions with wind pressure or negative pressure <math><35\text{kg/m}^2</math>.

The door is fast, safe, beautiful and more energy efficient.

- Curtain

The segmented curtain is made of high-density polyester fiber (0.8mm/1.2mm thick option) and the transparent window is full-transparent PVC film (thickness 1.5mm)

- Door frame is formed by laser cutting

- Drive system

Drive dedicated motor power: 0.75-3KW; voltage 220V/380V,

- Control system

The IP55 control box is compatible with commonly used protection devices; the whole uses PLC digital programming to realize the safe passage of personnel vehicles and articles, parking manual lever for easy to open or close

- Operating & closing speed

Upward 0.5~2.5m/s, down 0.6~1.0m/s, and the inverter can be adjusted the required uplink and downlink speed according to actual requirements.



A) Curtain Color (RAL)

RAL 1030	RAL 1014	RAL 1016	RAL 2001	RAL 2010	RAL 3020
RAL 5010	RAL 7016	RAL 7022	RAL 7034	RAL 7036	RAL 7037
RAL 7045	RAL 8025	RAL 9002	RAL 9003	RAL 9006	Transparent



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B) Basic Configuration

Item	Unit	Configuration	Remarks
HS special motor	set	Servo motor: 220V 1PH 0.75KW/1.5KW/2.2KW/50HZ frequency motor:380V 3PH 0.75/ 1.5KW /2.2KW/3KW/5KW	CE Servo motor / frequency motor
Soft curtain	set	High strength PVC coating,curtain thickness 0.8mm,1.2mm,1.5mm or 2.0mm,bottom and middle both windproof reinforced rod, wind resistance 5000N.	RAL code,yellow,blue orange,gray,options
Door frame/guides	pair	high quality galvanized plate and frame, alloy aluminum 2.0mmthick guide.SS 304 stainless available.	White door body
Travel controlling	set	Absolute encoder controlling, precise localization,	
Inverter	set	Controlling running speed well, stable quality	
window	pc	PVC transparent window1.4-2.3m above ground.	option
Photocell safety protection/ Radar	set	Some objects reaction, door stop going down to go upside.	
Switch mode	set	Manual buttons	Triplex
Speed		0.5-2.5m/s	adjustment

Motor Options

Servo	SEW(Germany)	SEJ
		

Other Control Options

Manual Rocker of Motor	Remote control	Network Card Machine
		
Card Machine	Geomagnetism	Passenger vehicle shunt radar
		



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HIGH SPEED PVC (SOFT) DOOR

Standard Control Options

Manual button



Radar



Infrared Sensor



Other Control Options

Touchless scanning sensor



Remote control



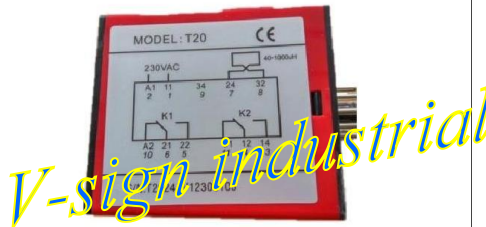
Network Card Machine



Card Machine



Geomagnetism
(Loop motion detector)



Passenger vehicle shunt radar



Safety Device

Bottom Safety air bag



Conductive safety device



Crash Column





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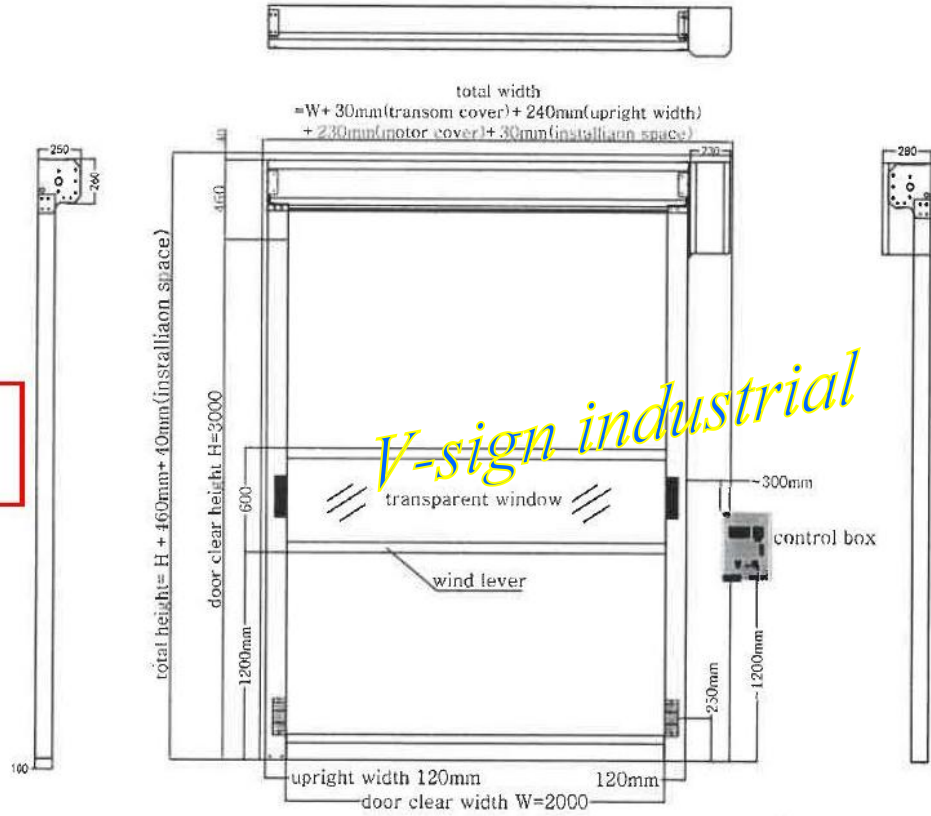
HIGH SPEED PVC (SOFT) DOOR

C) Sample drawing

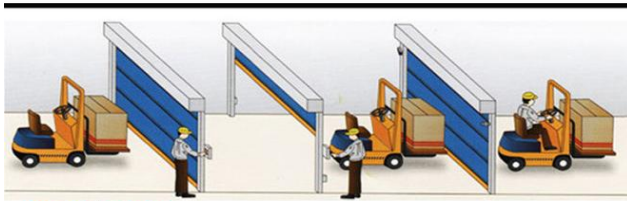
P I FAST ROLL DOOR

upright width:120

Power: 1 ph,
 220V, 50Hz
 Curtain: BLue
 Ra1 5002



OPEN MODE



PVC Fast Door

- 1 Control Box
 -PLC control system
 -Servo system
- 2 Motor
 -Servo motor
 -Open speed:1.5m/s
 -Close speed:1.2m/s
- 3 Rail
 -3.0mm
 -Aluminium
- 4 Cover Box
 -2.0mm galvanized steel
 -Power coated
- 5 PVC Curtain
 -1.0mm
- 6 Vision Window
- 7 Bottom Beam
 -3.0mm aluminium
- 8 Wireless Air Bag
- 9 Sensor
 -Sensitive photo cell



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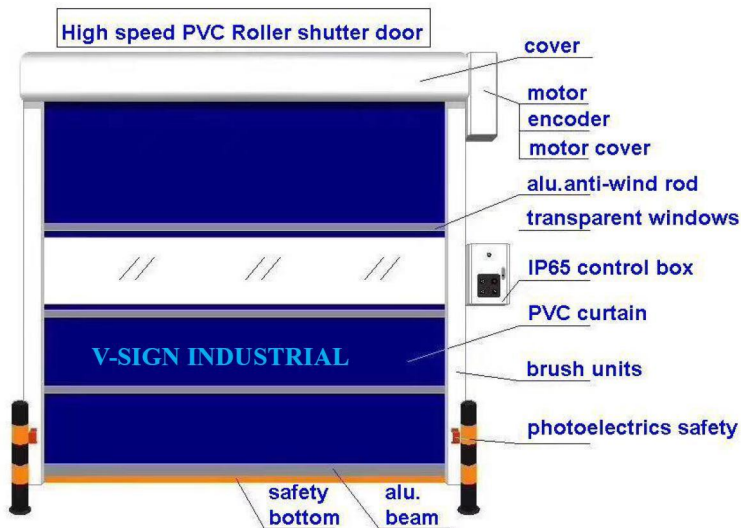
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HIGH SPEED PVC (SOFT) DOOR

ROLLER UP Door

Standard configuration

Item	Unit	Standard settings	Remarks
HS special motor	set	0.75/1.5KW/2.2KW/220V/50HZ, IP56 control panel	CE Servo motor
Soft curtain	set	High strength PVC coating, curtain thickness 0.8MM or 1.2mm or 2.0mm,wind resistance 5000N.	RAL CODE
Door frame	pair	Laser cutting ,bright surface, high quality galvanized plate and frame,2.0mmguide or SS 304 available.	White door body
window	pc	PVC transparent window1.4-2.3m.	Option (free)
Anti-wind rods	pcs	Aluminium steel tubes	standard
Photocell or infrared safety protection	set	Both sides photocell safety device protection or top radar sensors, loop motion detectors	standard
Interlock function		Both doors connected with interlock	standard
Radar or geomagnetic	set	To help opening and closing "either-or"	Option
Remote	pc	Telecontrol	Option
Safety edge	set	To protect objects at the bottom when door going down	Option
Scanning device	pc	No touch scanning panel to open	standard
Switch mode	set	Manual buttons	standard
Speed		0.5-2.5m/s	adjustment
Max.size		Width 15m x height 15m	





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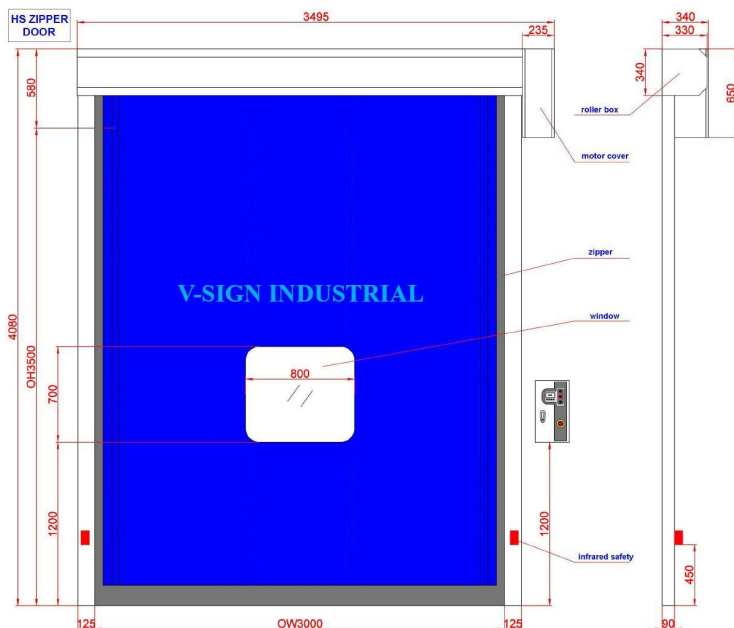
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HIGH SPEED PVC (SOFT) DOOR

ZIPPER (Self-repair / Anti-Collision) Door

Standard Configuration

Item	Unit	Standard settings	Remarks
HS special motor	set	0.75/1.5KW/2.2KW/220V/50HZ, IP56 control panel	CE Servo motor
Soft curtain	set	High strength PVC coating, curtain thickness 0.8MM or 1.2mm,wind resistance 5000N.	RAL CODE
Door frame	pair	Laser cutting ,bright surface, high quality galvanized plate and frame,2.0mmguide or SS 304 available.	White door body
window	pc	PVC Transparent window1.4-2.3m	Option (free)
Photocell or infrared safety protection	set	Both sides photocell safety device protection or top radar sensors, loop motion detectors	standard
Interlock function		Both doors connected with interlock	standard
Radar or geomagnetic	set	To help opening and closing “either-or”	Option
Remote	pc	Telecontrol	Option
Safety edge	set	To protect objects at the bottom when door going down	Standard
Scanning device	pc	No touch scanning panel to pen	standard
Switch mode	set	Manual buttons	standard
Speed		0.5-2.5m/s	adjustment
Max.size		Max.width 6m x height 6m	





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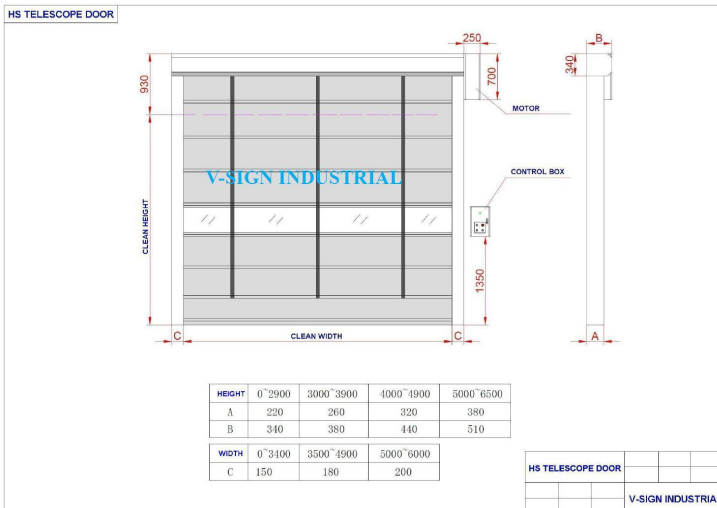
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HIGH SPEED PVC (SOFT) DOOR

TELESCOPIC Door

Standard Configuration

Item	Unit	Standard settings	Remarks
HS special motor	set	0.75/1.5KW/2.2KW/220V/50HZ, IP56 control panel	CE Servo motor
Soft curtain	set	High strength PVC coating, curtain thickness 0.8MM or 1.2mm,wind resistance 5000N.	RAL CODE
Door frame	pair	Laser cutting ,bright surface, high quality galvanized plate and frame,2.0mmguide or SS 304 available.	White door body
Anti-wind rods	pcs	Aluminium steel tubes	standard
window	pc	PVC Transparent window1.4-2.3m	Option (free)
Photocell or infrared safety protection	set	Both sides photocell safety device protection or top radar sensors, loop motion detectors	standard
Interlock function		Both doors connected with interlock	standard
Radar or geomagnetic	set	To help opening and closing "either-or"	Option
Remote	pc	Telecontrol	Option
Safety edge	set	To protect objects at the bottom when door going down	Option
Scanning panel	pc	No touch scanning panel to open	standard
Switch mode	set	Manual buttons	standard
Speed		0.5-2.5m/s	adjustment
Max.size		Width 15m x height 15m	





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HIGH SPEED PVC (SOFT) DOOR

COLD ROOM Door

Standard Configuration

Item	Unit	Standard settings	Remarks
HS special motor	set	0.75KW/1.5KW/2.2KW/220V self-heating motor, IP 56 control panel.	CE Servo motor
Soft curtain	set	High quality cold resistant 3-layers PVC with PU foam 3mm thick, 0.3mm double layers cold resistant mesh cloth middle insulation layer, 2 layers of insulation cotton or aluminum foil reflective film overall 15mm, curtain is heated to prevent frosting, special seals PVC materials both sides,anti-wind 6grade	RAL CODE
Door frame	pair	S/S 304 frame, alloy-aluminum guides, powder painted	White door body
Working temperature		-1 °C to -28 °C	
Control system & accessories		Special Servo motor at cold temperature, DSP chip & encoders, IP56 LED control panel	standard
Photocell or infrared safety protection	set	Both sides photocell safety device protection or top radar sensors, loop motion detectors	standard
Radar or geomagnetic	set	To help opening and closing “either-or”	Option
Remote	pc	Telecontrol	Option
Scanning panel	pc	No touch scanning panel to open	Option
Pull switch	pc	Manual switch	Option
Safety edge	set	To protect objects at the bottom when door going down	Option
Switch mode	set	Manual buttons	standard
Opening Speed		0.8-1.5m/s	adjustment
Closing speed		Above 0.6m/s	adjustment
Max.size		Max.width 6m x height 6m	





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HIGH SPEED PVC (SOFT) DOOR

滚筒式快速卷门系列 Flexible High-speed Roll-up Door Series

柔性快速卷门广泛应用于食品、医疗、电子、印刷等行业。采用一体式设计，隐藏卷式开启方式；具有隔温、保湿、防尘、防虫、隔音等优点。特别是开启速度能达到2.5米/秒，保证隔离、频繁出入场所的有效使用。

These highly versatile doors can match virtually any interior, exterior, wash-down, high-wind, cooler or freezer high-cycle application - reducing the complexity of maintaining multiple door models in one facility.



开启方式 Opening Method



按钮开门

Pushing Button



遥控开门

Remote Control



雷达微波感应开门

Wireless Radar



拉绳开门

Manual Chain

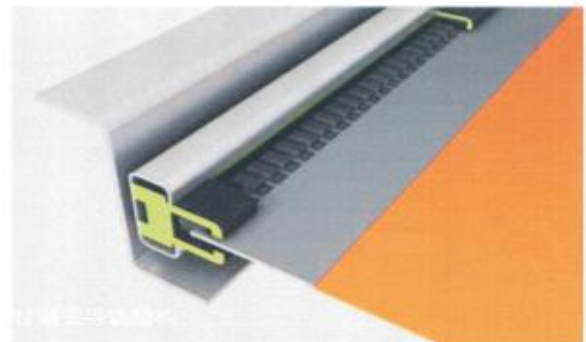


地磁环感应开门

Ground Magnetic Loops

产品高性能优势：

- ◆ 防撞脱轨自动复位功能
- ◆ 门帘材质坚固耐用
- ◆ 变频电机开启/关闭门体速度可达2.5m/s
- ◆ 无油轨道允许门体最大抗风强度达120km/h
- ◆ 运行寿命高达150万次
- ◆ 运行强度80%
- ◆ 减少物理磨损，维修率低
- ◆ 运行平稳安静
- ◆ 选配-配重-使得运行更加顺畅



HIGH SPEED PVC (SOFT) DOOR

堆积式快速门系列

Stacking Door-Vertical Lifting & High Speed

抗10级强风，频繁快速开关，适合大门

风杆杆，其风压可以均布于门帘整体，其抗风性能远高于普通卷帘式快速卷门，特别适合于物流通道，和大面积的洞口。插入式门帘更容易拆卸，维护更加方便。飞龙还为客户提供订制式更高档次铝合金型材抗风杆，该抗风杆为外置式，使整个产品看上去更具结构美感和提升档次。

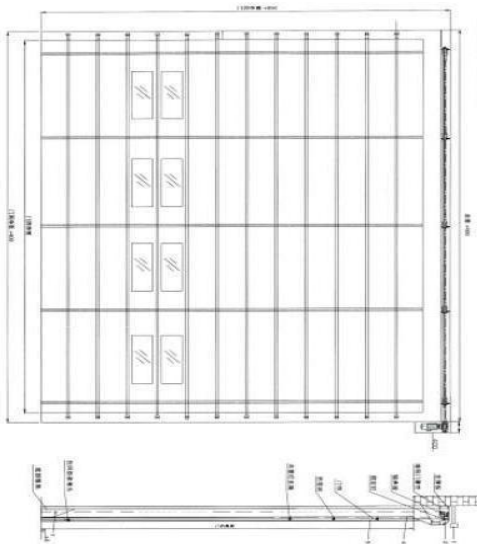


Stacking Door's curtain is a robust compound that is resistant to tearing. Steel round bars or fiberglass composite bar reinforce the curtain sections to allow stacking and durability. Our vertically stacking door can withstand high air streams and windy conditions; the adaptable design means it can be altered to many site requirements.



产品特点

- ◆ 组合式加强型欧式框架结构，强度是普通堆积门3倍以上
- ◆ 提供内置钢管抗风扇与外置铝合金型材抗风扇双重订制方案
- ◆ 超宽型强韧系统，开闭速度提升30%，物理磨损降低55%
- ◆ 巧妙地将空气动力学原理运用到密封结构设计中心，风压越大密封越佳
- ◆ 加长PVC卡座式密封毛刷，方便更换拆卸
- ◆ 可抗10级强风
- ◆ 可选配多个多排视窗，增强采光效果
- ◆ 采用飞龙特有的人工智能化控制系统
- ◆ 允许频率: 120次/小时, 2次/分钟
- ◆ 隐藏式红外线安全防护



技术性能

门框材质: 优质防腐金属
门帘材质: 由聚氨酯泡沫填充的涤纶纤维与玻璃纤维的强韧纤维通过涤纶纤维制成。
开关速度: 1-2m/s, 高转速扇 (1500次/天)
密封性能: 聚氨酯加重重量气帘, 密封性强, 不积尘, 高稳定性, 易清洁。
驱动力性能: IP55级电动机, 0.75kW-1.8kW /380V, 转速25转/S, 承载大负荷。
门帘厚度: 连接部分使用特制高强度铝合金加强筋, 抗风度150kg/m²。
门帘功能: 分段式强化铝合金加强筋, 具有抗风及布帘分段地垫功能。门帘布为特制高强度尼龙纤维布, 密度840丹, 双层PVC胶合厚度0.8-1.0mm, 具有耐火及抗紫外线功能。(另有保温专用门帘, 绝缘度-35℃)
安全性能: 配置红外线, 安全气幕等多重系统增强门帘运行安全。
开启方式: 可选脚踏站、地磁、光电、遥控、按钮等多种方式。



门帘



安全警示灯



防撞柱



行程开关



地磁



安全气幕



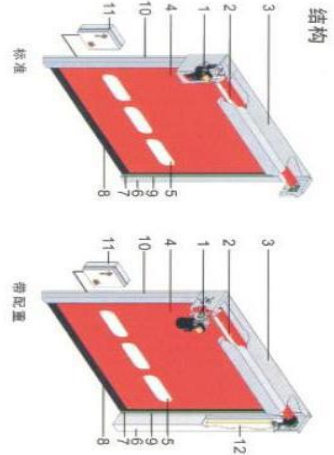
光电



雷达

HIGH SPEED PVC (SOFT) DOOR

滚筒式快速卷帘门系列 Flexible High-speed Roll-up Door Series



- | | |
|---------|--------------------------|
| 1. 电机 | 1. Motor |
| 2. 轴 | 2. Balance Shaft |
| 3. 轴外罩 | 3. External Cover |
| 4. 门帘 | 4. Door curtain |
| 5. 透明视窗 | 5. Visible Window |
| 6. 侧裙外罩 | 6. Side Cover |
| 7. 轨道 | 7. Operation Rail |
| 8. 门帘底边 | 8. Bottom Finishing |
| 9. 光眼 | 9. Infrared Photo-sensor |
| 10. 侧框 | 10. Side frame |
| 11. 控制箱 | 11. Control Box |
| 12. 配重 | 12. Bobweight |

Innovation
 Ability to withstand forklift impact and snap right back into their tracks, this is a huge benefit in a warehouse space, respectively.
 Intelligent control - User and Forklift can be passed respectively.
 Maximize energy savings by minimizing the amount of air exchange.
 High-performance, high-speed door solutions, capable of moving at 2.50m/s

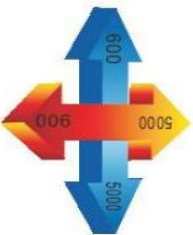
创新亮点
 更方便：中文人机界面，实现智能人机交流，方便使用与维护
 更经济：集成模块标准设计，无须编程，即插即用，后期维护经济快捷
 更节能：人车分流功能人行半开，车行全开，大门也如小门般节能



Certain styles of High Speed Door that feature a Vinyl Curtain can be customized with client's own message or Logo.



组件	配置	特点
框架立柱	优质冷轧钢板外部静电喷塑处理(标配)	纯进口塑料
门体结构	高强度聚酯纤维制基布帘门帘 中间嵌透明视窗(标配); 多个独立视窗(选配) 横向往复式门帘, 中间铝合金型材卡式连接 阻燃等级为Class2	具有双面自洁功能 个性化定制方案 更易局部更换
密闭性能	抗风等级为6级, 抗压可达8级(需预约) 制作规格W=600mm-5000mm, H=900mm-5000mm 两侧导轨内双排加密封毛刷, PVC底座卡式设计 门体底部铝合金型材配重型橡胶密封与门帘气帘重双结合 门帘一体式包面密封设计	可订制设备配套小门 免打固定, 保护门体 与地面贴合密闭效果更佳
控制系统	SUPER II集成式高性能控制系统, 实现速度闭环和位置闭环控制。 工业级速门专用高频启停电机, 双向静音刹车系统 全程绝对式数字限位, 16位4圈绝对值编码器以码盘计单圈位置, 机械结构计圈数 开关速度1.2-0.6米/秒; 工作温度-40C~70C	可视化人机界面 专为快速门设计 位置闭环, 无限位累积误差 斜坡式安全缓冲, 速度可测
开关方式	按钮开关, 延时自动关门(标配); 雷达感应/地磁环感应/拉绳开关/遥控开关/门控系统(选配); 导轨底部红外线安全电眼, 异常触动门体自动反弹至(标配)	可双门互锁, 远程联动 非接触式安全保护 第二重安全保护
安全性能	传统有线安全气量(选配) 光幕(辅)安全保护(选配)	全方位安全保护
电源要求	220V-380V/13A/单相-三相/50HZ	



门体适宜范围



开关速度 (m/sec)