



# YEOW JIH INDUSTRIES SDN BHD

(199201002790)

## PRODUCTS CATALOGUE

HIGH SPEED DOORS



DOCKING EQUIPMENTS



INTELLIGENT WAREHOUSING &  
AUTOMATION SYSTEMS

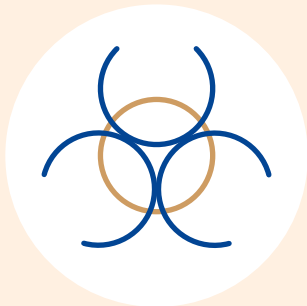




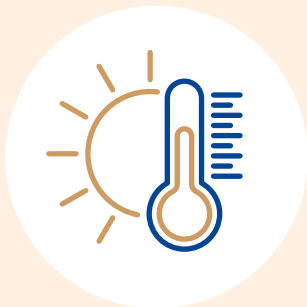
Tired of a slow operation roller shutter door?



Want to minimize the maintenance cost and electricity bills of your coldrooms and chiller rooms?



Want to minimize cross contamination within your factory?



Want to maintain the humidity and temperature efficiently?



## About Us

Yeow Jih Industries Sdn Bhd was founded in Malaysia in 1992, a subsidiary of Yow Jih Enterprise Co., Ltd (Taiwan). From a humble beginning, Yow Jih Taiwan engaged in trading and manufacturing of textile machinery spare parts, design and parts modification to its utmost performance in order to satisfy clients' needs. She becomes an agent for Awa Spindle Co., Ltd - a Japanese Company who is one of the leading company in manufacturing textile machinery spare parts which already exist for more than 150 years.

Furthermore, Yow Jih Taiwan also acts as an agent for Dupont in their engineering polymer division - namely Vespel®. This special material was also used in TFT industries (robotic arm), aero-space industries, semiconductor industries and etc. To further diversify the business, Yow Jih Taiwan became the agent for Nippon Starch Chemical Co., Ltd, where their products were widely used in glass fiber industries, food industries and etc.

During those years engaging in industrial products, we have visited many factories and discovered that most of them are facing environmental problem caused by "openings". These environmental problems can be of wind, smell, dust, insects, pests, humidity, temperature and etc. Thus, we started to venture into High Performance Doors industry and provide solutions to our pretigious clients who are facing these environmental problems in their factories.

Many companies have yet to discover the numerous advantages of High Performance Doors. They continue to rely on lower-performance doors that are inadequate for the quick responsiveness and fast pace needed in today's highly competitive business environment.

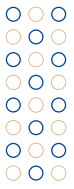
High Performance Doors improves a lot over traditional doors by adding new elements of functionality. High Performance Doors are longer lasting and characterized by greater reliability, higher speeds, larger sizes, higher cycles and more superior safety features. Besides this, it is also able to satisfy and fulfill customers' requirements such as reliability, durability, economically, safety and solutions for their logistical problem. For industries like distribution, logistics and manufacturing, we power businesses with more efficient operations, energy savings and enhanced security.

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## Discover the Excellence of

- High Speed Door / Overhead Sectional Door
- Docking Equipment - Dock Leveller/ Dock Shelter
- Intelligent Warehousing & Automation Systems



# HIGH PERFORMANCE SPEED DOOR



快速软帘卷门被设计用于有不同环境要求区间之间的隔断与快速开闭，以起到隔断空气流通和保障快速通行的作用。是设置在建筑物内外出入口，用软帘做成的快速自动卷门。由于开、关门速度快，缩短了出入口的开放时间，减少了不同区间之间的空气对流和热能交换，对于创造安全、卫生和节能的工作环境有很大的作用。广泛适用于汽车制造、医药、电子、洁净厂房、净化车间、卷烟、印刷、纺织、超市、机械制造等需要快速开闭的通行门洞口。

High performance speed door is designed for rapid opening and closing between different sections of environment and play the role of isolating ventilation and at the same time improves operation's efficiency. The soft door curtain configuration of the high speed door installed internally or externally of a building creates a safe, hygienic and energy-saving working environment. Furthermore, the fast opening speed and closing speed will greatly reduce the opening time and minimize the air convection and heat exchange among different sections of the area. This high performance speed door is widely used in industries such as automobile manufacturing, pharmaceutical, electronics, semiconductor, food processing industries, printing, textile, coldrooms and chiller rooms, packaging, warehouses and logistics distribution industries and etc.



#### 结构特点

1. 轨道、下过梁、抗风条全部采用优质铝合金型材制造，外形美观。
2. 采用伺服电机和伺服控制，编码器限位，门体运行平衡，关门开门转换速度快于0.3S，且无一般制动电机的刹车噪声。运行几十万次，限位误差小于2mm。
3. 设有无线安全气囊、红外保护系统。在门体小行时遇人、物迅速回到全开状态。安全性好。
4. 防撞脱轨保护。
5. 可根据用户要求，选配地磁环或拉绳开启。

#### Structure and characteristics

1. Rail, lower beam and windproof strip are manufactured with high-quality aluminium alloy profiles with beautiful shape.
2. Use servo motor, servo control and encoder limit. The door body operates stably. The switch speed of closing and opening is fast, to be specific, less than 0.3S, and generally no noise of motor braking occurs. Upon operations of hundreds of thousands of times, the limit error is less than 2mm.
3. Be equipped with wireless safety air bag and infrared protection system. Return quickly to fully open state in the event of people or objects when the door body is moving down. Have good safety performance.
4. Anti-collision derailing protection.
5. Motion sensor, floor loop, pull rope, remote control is an option for automatic opening device of the users' requirements.

Servo motor  
operating stably



Servo  
control box



Aluminum alloy guide rail  
3mm in wall thickness



Aluminum alloy  
windproof strip



Color options

## AVAILABLE COLORS



RAL 1023



RAL 2004



RAL 3002

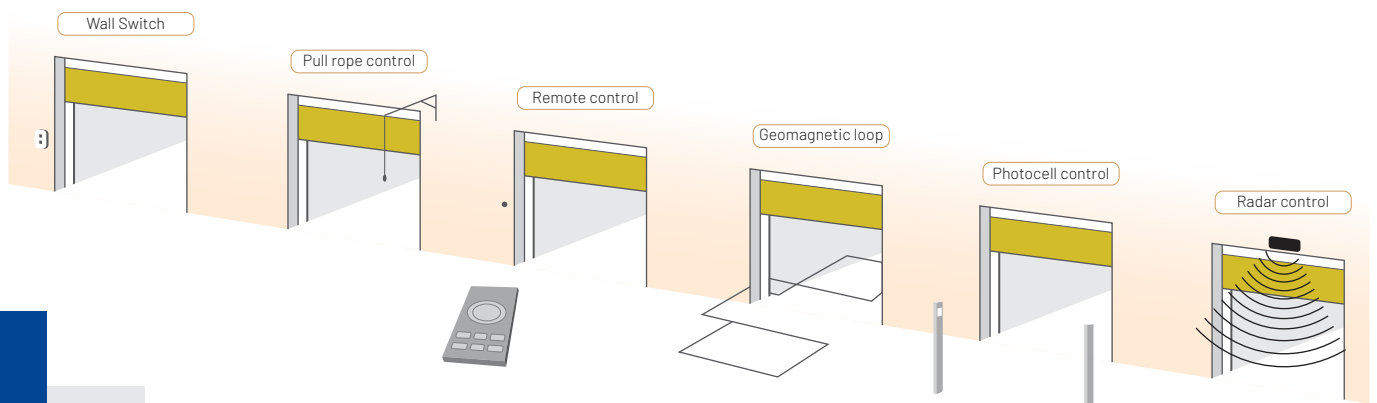


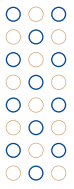
RAL 5002



RAL 9022

## INSTALLATION OPTIONS





# METAL SPEED DOOR (SPIRAL TYPE)



金属快速卷帘门-集保温、节能、密封、高效、抗风、环保于一身的新型金属工业门，开启速度每秒最高可达2.5米，适用于室内外需要频繁高速通行的物流通道。门板采用0.7mm厚双层拉伸铝板经流水线一次复合成型，中间为聚氨酯发泡填充，每位方容重》50kg（不含CFC），门板总厚度为43mm。截面设计为断桥隔热结构，具有保温好、重量轻、强度大、抗冲击等特点，抗风等级可达12级。该门型能为企业减少大量因空气流通而产生的能量损耗。驱动控制采用了稳定、节能的伺服系统来保障门体的可靠运行。

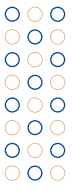
Metal Rapid Rolling Door, as a new type metal industrial door, has insulation, energy-saving, sealed, highly efficient, wind resistance, and environmental features all well combined in it. Due to its maximum opening speed of 2.5m per second, it can be applied to logistics channels requiring high speed and frequency. The door panel adopts double-layer tensile aluminium plates of 0.7mm thick and one-step modeled by the assembly lines. The middle section is foam filled by polyurethane, with a capacity equal to or greater than 50kg per cubic space (excluding CFC), and the total thickness of the door plate is 43mm. The cross section design adopts heat insulating structure and has the advantages of heat insulation, light in weight, high strength, and impact resistance and so on. The classification of wind resistance is equal to or greater than force 12 wind. The application of this door will save the company a great quantity of production energy consumption caused by air circulation. Our product is very reliable, practical, easy-operating and quick-fixing. The drive system has adopted stable, energy-saving and accurate servo-system to ensure reliable operations.

- 开关速度** : 开启速度1.2M/S ~ 2.5M/S, 可调; 关闭速度0.6M/S, 可调。
- 门体结构** : 门帘为分体装配结构: 断桥隔热的铝合金门版、多层次密封胶条、消音承重教铰链、聚氨酯导向轮等几个部分组成。铝合金保温门板标准厚度为43mm, 表面经过阳极氧化加有机着色处理, 抗风强度可达12级, 内部填充聚氨酯工业保温材料, 标准颜色灰色; 可选颜色铝合金原色、珍珠白、中国红4种。
- 电机系统** : 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; 台湾品牌编码器; 英国品牌刹车系统; 大惯量行星减速机; 应急手动开启结构。
- 提升方式** : 该门的铝合金涡轮导向承重轨道, 确保门帘在启闭过程的高速运行, 门帘与轨道转动摩擦使噪声有效控制, 根据现场安装结构可分为: 涡轮吸入式、椭圆吸入式、垂直提升式、90度标准拐弯提升式或更多的轨道方式, 标准为涡轮吸入式, 其它提升方式需要和我司销售人员提前预约。

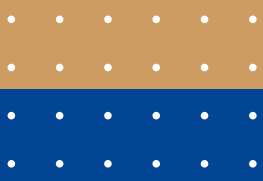
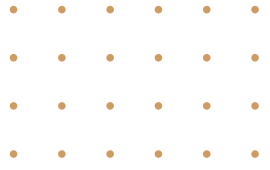
- Open-close Speed** : Opening speed of 1.2M/S ~ 2.5M/S, adjustable; Closing speed is 0.6M/S, adjustable.
- Door Structure** : The door curtain is of split assembly structure : composed of such parts as aluminium alloy door panel for broken bridge heat insulation, multilayer sealing rubber strip, hinge for muffling and load bearing and polyurethane guide wheel. The standard thickness of aluminium alloy thermal insulation door panel is of 43mm. The surface is subject to anodic oxidation + organic staining treatment and the strength for wind resistance may reach grade 12. The interior is filled with polyurethane industrial thermal insulating materials. The standard colour is Pasteur grey and selective colours include 4 kinds : original colour of aluminium alloy, pearl white and Chinese red.
- Motor System** : Motor drive system adopts industrial door servo system : rare earth permanent magnet synchronous motor; Taiwanese encoder; British brake system; high inertia planetary reducer; Emergency manual switch on/off institutions.
- Hoisting Ways** : The aluminium-alloy turbine guiding bearing rail of this door is of patent technology of the manufacturer to ensure the high-speed operating in the process of opening and closing of door curtain, the rotating friction between the curtain and the rail can ensure the effective control of noises. According to the site installation condition, the mechanism can be divided into turbine type, ellipse inhalation type, vertical lifting type, 90° standard turning lifting type or more rail modes, the standard one is of turbine inhalation type, other lifting modes are required to be appointed in advance by the sellers of company.

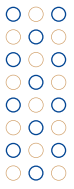
- 产品标准配置**
- 停电应急开启装置
- 红外线安全保护系统
- 操作按钮盒
- 接触带触发式安全底边
- 伺服电机
- 专业控制系统

- Standard Configuration**
- Emergency starting device while power off
- Infrared safety protection system
- Operating button box
- Contact belt triggering-type safety bottom
- Servo motor
- Professional control system



# MEETING YOUR REQUIREMENT FOR HIGH SPEED INSULATION & SECURITY





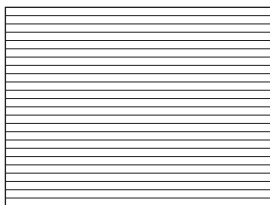
# OVERHEAD SECTIONAL DOOR

The industrial sectional door is composed of door body, balancing system, driving and control system, safety device, rail, sealing and other options (such as wicket and window). The principle is to achieve servo balancing relying on the balancing system, drive the door body by (manual or electric) external force to operate in the rail system suitable to start. Owing to its portable operation, good insulation and sealing, the industrial sliding door is applied to all types of plants, logistics warehouse or special garages raising higher requirements for heat preservation, sealing and beauty.

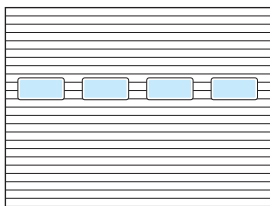
工业滑升门由门体、平衡系统、驱动及控制系统、安全装置、轨道和密封以及其它选配 (小门、窗户等等) 组成, 其原理是靠平衡系统实现随动平衡, 靠外力 (手动或电动) 驱动门体运行于适合开启的轨道系统, 操作轻便, 具备良好的保温与密封性, 适用于各类型的有效高的保温密封与美观要求的厂房、物流仓库或特种车库。



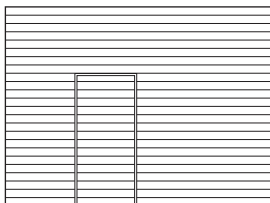
## ● 小门视窗选择 ● Selection of wicket and window



● 无门视窗  
Without pedestrian door and window



● 带视窗  
With window



● 带门中门  
With pedestrian door

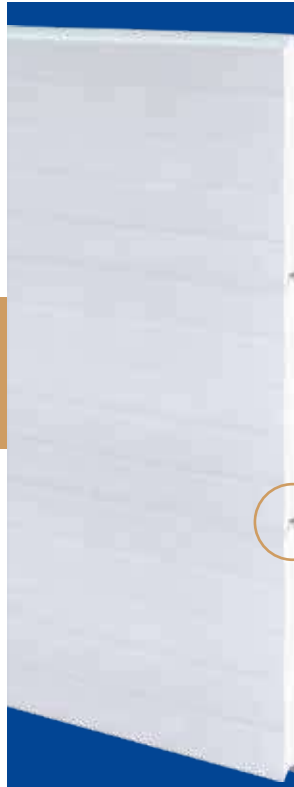
三种主要提升方式  
Three major lift ways



平衡锤式垂直工业滑升门  
Balance weight vertical lifting industrial door







门板采用六组份聚氨酯发泡工艺生产，发泡材料采用符合欧盟标准的环戊烷，发泡密度 $\geq 45\text{kg/m}^3$ 防夹手设计获国家专利，专利号：ZL201220623912.0

The door was produced by the particular technology and the material is called cyclopentane, which is in line with the EU standard patent number:  $\geq 45\text{kg/m}^3$  Finger safe door panel with seal strip, National patent No.: ZL201220623912.0

聚氨酯发泡(环戊烷)  
Polyurethane foaming  
(cyclopentance)

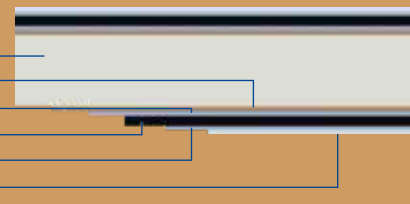
粘接层 Bonding layer

镀锌层 Zinc coating

钢板 Steel plate

镀锌层 Zinc coating

聚酯涂层 Polyester coating



开门机  
~ 220V  
~ 380V  
Motor



安全气囊系统 - 安全可靠  
With safe and reliable safety  
air bag system



防弹簧断裂装置在弹簧断裂时，  
防止门体坠落，安全性好  
Spring break device  
To prevent falling of the door body  
in the event of broken spring,  
with good safety performance



钢丝绳断裂防坠装置在钢丝绳断裂时，  
卡阻轨道，门体不下落  
Cable break device  
The rail is jammed and the door body  
does not fall in the event of  
broken wire rope



铝合金绳轮  
强度高，使用寿命长  
Aluminum alloy rope pulley  
With high strength and long service life



加强型轴支架 - 承载能力强，使用寿命长  
Enhanced shaft bracket  
With strong bearing ability and long service life



控制箱 - 操作简便，安全可靠  
Control box  
Handy operating, safe and reliable



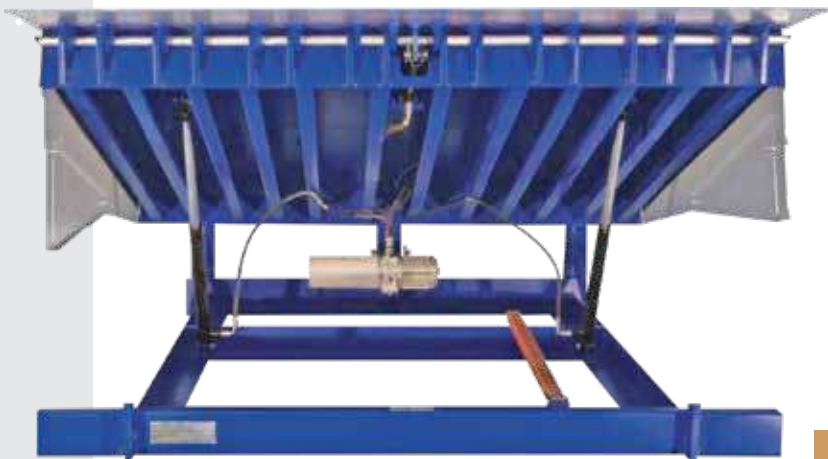
双联加强型导轮架  
确保门体强度和抗风性能  
Duplex enhanced guide wheel bracket  
To ensure the strength and the windproof  
property of door body



# DOCKING EQUIPMENT DOCK LEVELLER

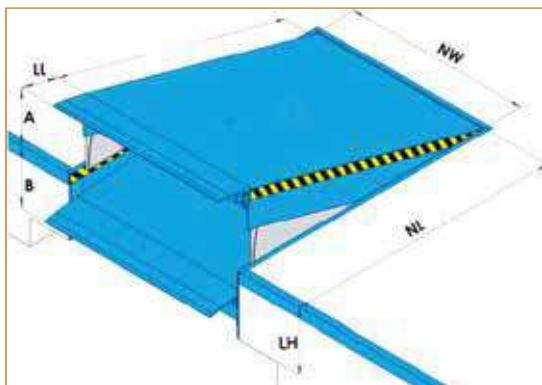


Since 1988



电动液压卸货平台，选用先进的液压系统，采用优质型钢做骨架，经精密的机械加工和先进的组焊工艺，构成了高强度的作业平台。它的高差调节功能使库房和货车之间架起一座桥梁，以帮助实现平衡、安全、高效的装卸要求。

For electric hydraulic unloading platform, a high-strength operation platform is formed through delicate mechanical processing and advanced assembling and welding technology by taking the advanced hydraulic system and the high-quality profiled bar as frame. Its height difference adjustment function allows building a bridge between warehouse and truck to help to realize the requirements for loading and unloading stably, safety and efficiently.



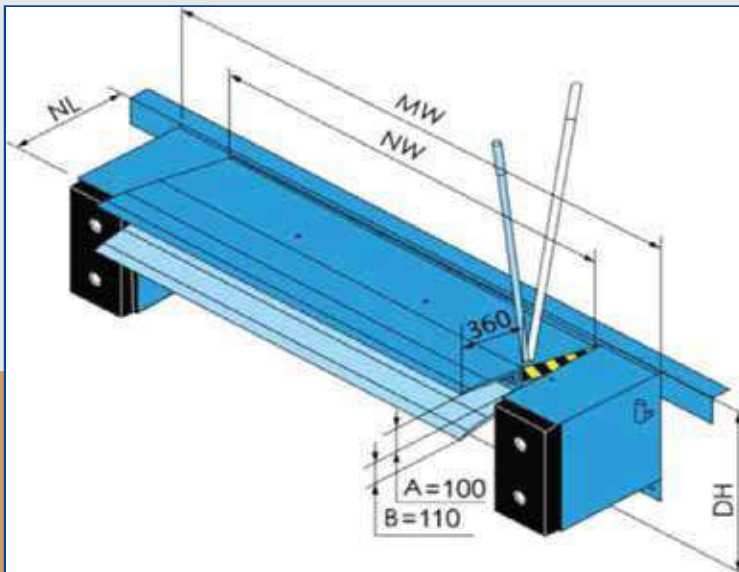
- NL Nominal length
- NW Nominal width
- LL Lip length
- LH Leveller height
- A Level equalisation above dock
- B Level equalisation below dock



# DRAWBRIDGE



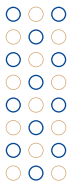
# DOCK EDGE



In accordance with the EN 1398 standard, the leveller must not be used beyond the permissible gradient range of  $\pm 12.5\%$  (around  $7^\circ$ ). The limits may only be exceeded if the operator ensures that the danger of slipping has been eliminated (e.g. due to dry and clean surface).

- NL Nominal length
- NW Nominal width
- MW Modular width
- DH Dock height
- A Level equalisation above dock
- B Level equalisation below dock

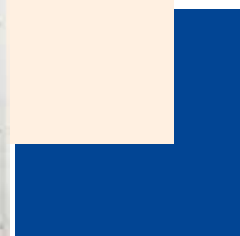
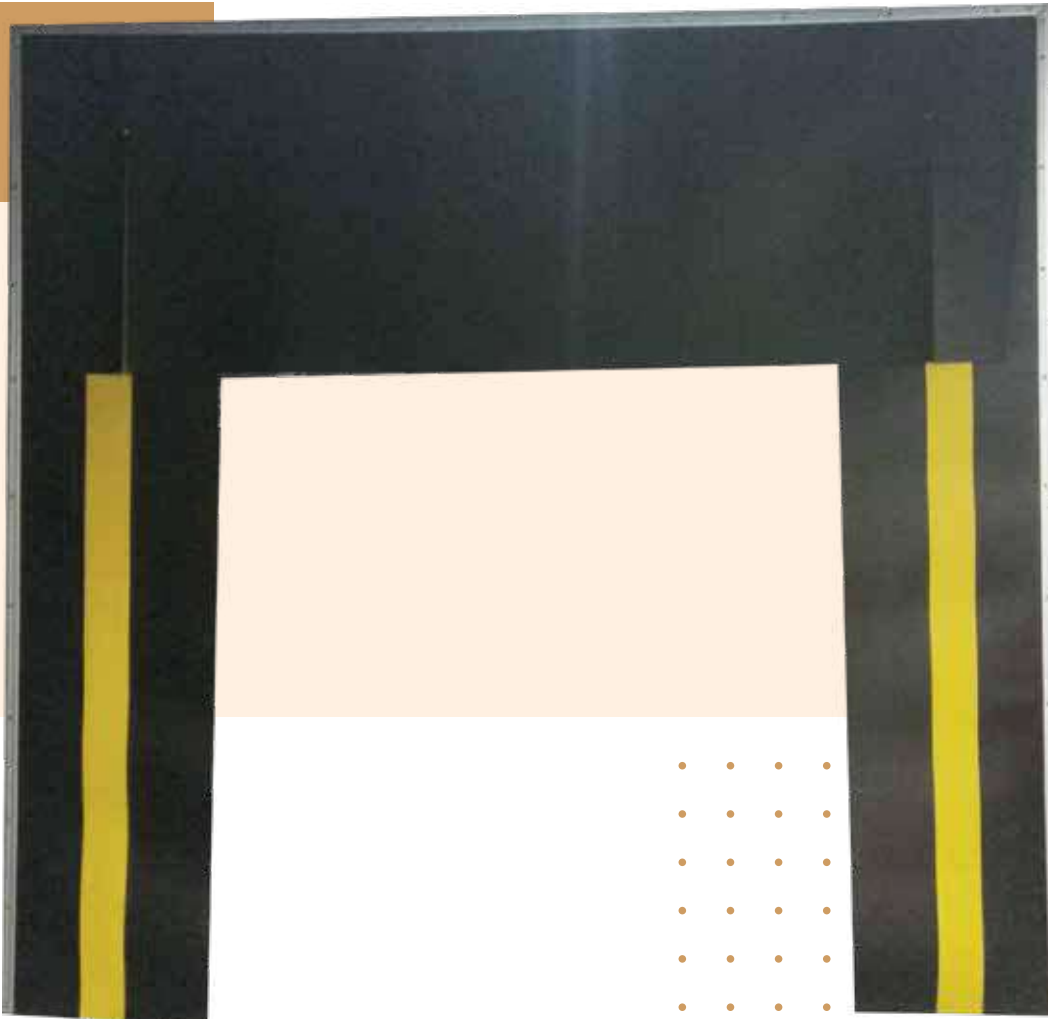




# MECHANICAL DOCK SHELTER

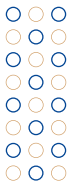


Since 1988



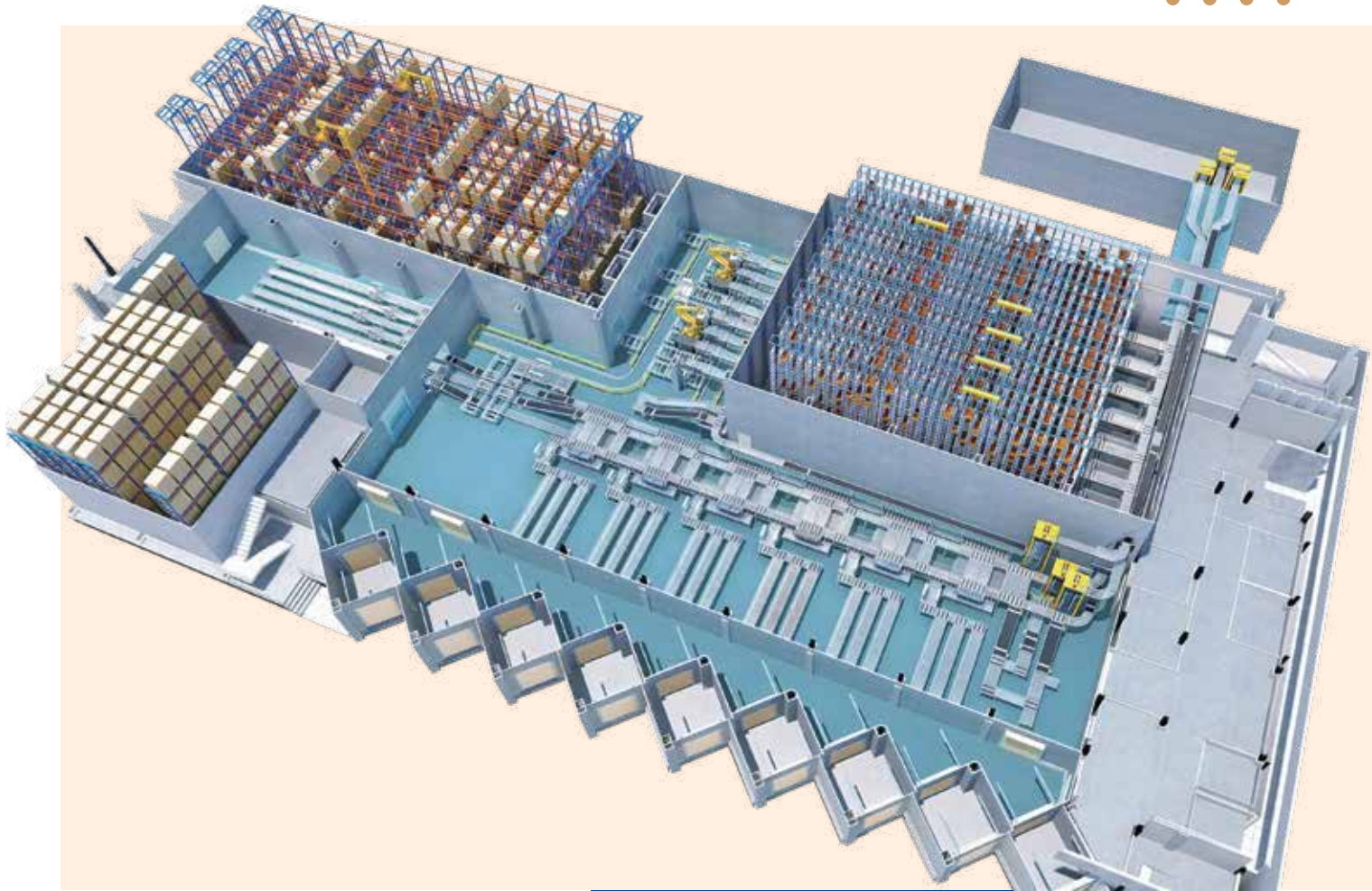
## SPECIFICATIONS

Function	Rain proof, dust proof, wind proof
Dimension (Width x Height)	3400 x 3400mm; 3400mm x 3600mm; 3400 x 3800mm
Front curtain material	3.0mm PVC coated fabric
Side curtain material	0.6mm PVC coated fabric
Outer support frame material	Aluminum profile
Inner support frame material	Steel tube 50 x 25 x 2.5mm
Working temperature	-35°C ~ +70°C



# SOLUTION OF INTELLIGENT LOGISTICS AND WAREHOUSING SYSTEM

智能制造系统解决方案供应商



## PRODUCT RANGES :

- Stacker Systems / 堆垛机系统

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- EMS Systems / EMS 系统

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- Conveyor Systems / 输送机系统

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- Shuttle Systems / 穿梭车系统

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- Robot Systems / 机器人系统

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- Automatic Sorting Systems / 自动分检系统

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- Automatic Guided Vehicle (AGV) / 自动导引小车

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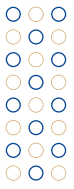
- Special Logistics Equipment / 专用物流设备

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- Computer Monitoring & Management Systems / 计算机监控管理系统

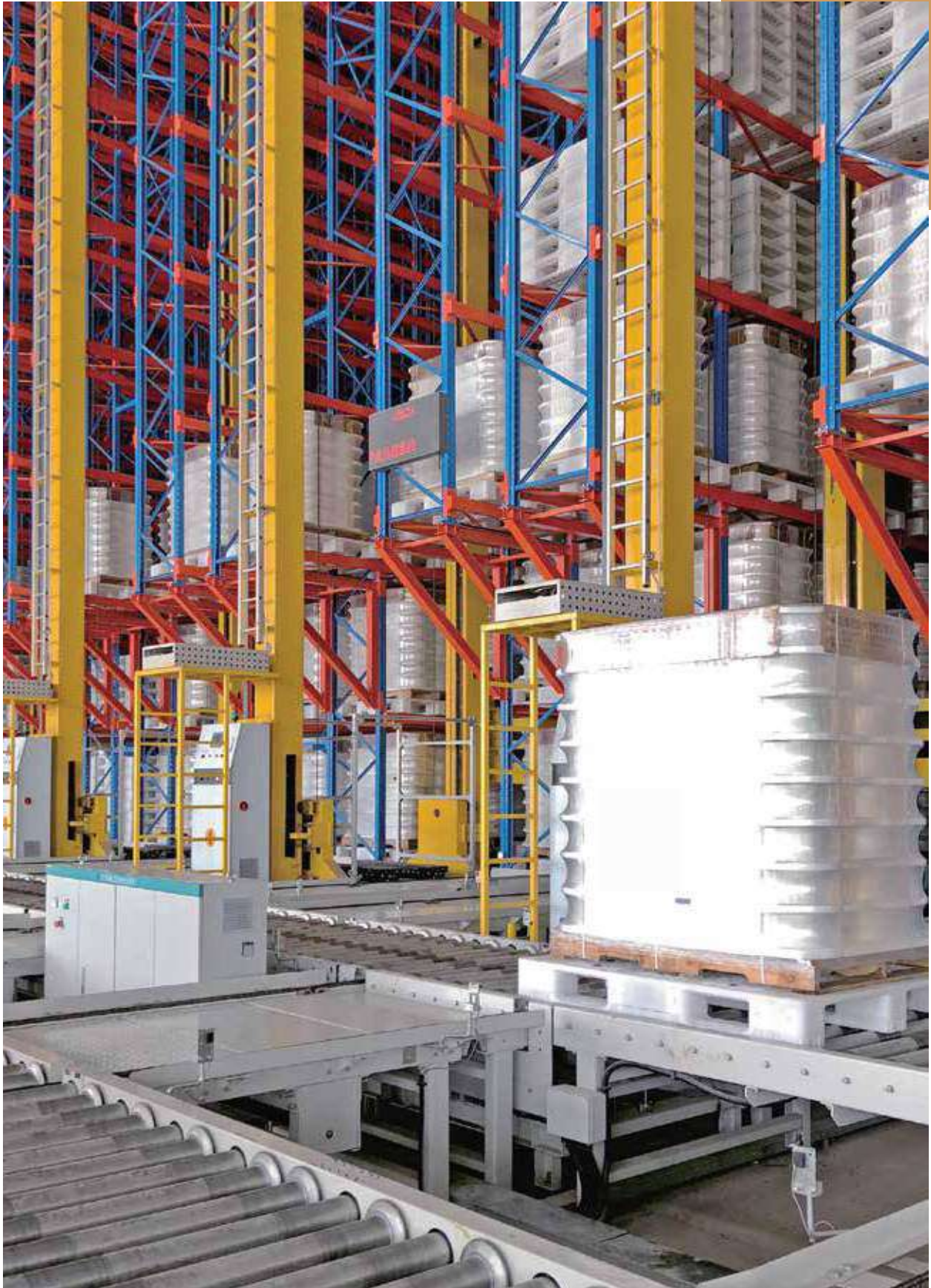


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# PRODUCTS INTRODUCTION

产品介绍





## 堆垛机系统 STACKER SYSTEM

堆垛机是自动化立体仓库的主要搬运设备，它在高层货架中运行。堆垛机的性能直接影响到立体仓库的作业效率和可靠性。堆垛机的运行节拍和平稳性，以及控制系统的智能性是衡量设备的重要参数。

The stacker is the main handling equipment of the Automated Storage and Retrieval System (ASRS), which runs inside the high-level rack. The stacker performance directly affects the operation efficiency and reliability of ASRS. The cycle time and stability of stacker, as well as intelligence of the control system are important parameters to measure the equipment.



## EMS系统 EMS SYSTEM

EMS系统由铝合金轨道、车组、道岔、滑导轨电装置、升降装置及电控等组成。车组间可实现内积放和线体分段积放，线体布置灵活，可根据客户要求实现空中或地面布线要求，能够快速、高效地实现工件的传输和上、下件，整体结构美观、简洁、环保。

EMS system is composed of aluminum alloy track, vehicle sets, turnout, sliding guide power-picking device, and lifting gear and electronic controls. Between the vehicle sets, inner power and line segmented power can be realized. The arrangement of lines is flexible, and the aerial wiring or ground wiring requirements can be met according to the customer's needs. The transport and lifting of the work piece can be rapidly and efficiently realized. The overall structure is beautiful, simple and environmentally-friendly.



## 输送机系统 CONVEYOR SYSTEM

输送设备完成立体仓库货架外的输送，它内与堆垛机衔接，外与其它搬运车或直接到站台的长途运货车衔接，一般由输送机、移载机、升降机、提升机构成。

The conveyor equipment completes the transport outside ASRS. It connects with the stacker inside and other carriers or long-distance delivery trucks directly to the platform outside. Generally, it consists of conveyor, transporter, lifter, and elevator.





## 穿梭车系统 SHUTTLE SYSTEM

穿梭车可以在立体仓库周围配合输送设备，沿固定轨道进行高速货物搬运。它速度快、灵活性强、可多车协调工作。

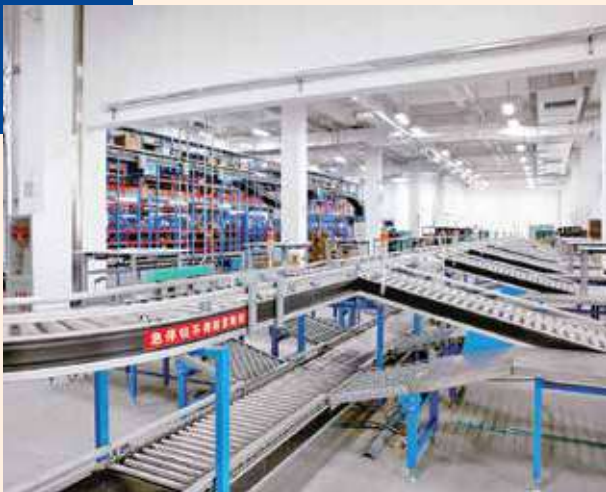
Shuttles can cooperate with the conveyor equipment to accomplish high-speed cargo handling along a fixed rail around ASRS. It is fast, flexible and can work in coordination with multiple shuttles.



## 机器人系统 ROBOT SYSTEM

运用机器人技术可实现物品的码垛、上下料、运输，效率高、操作准确，可在恶劣环境下工作。

The robot technology can be used to accomplish the stacking and feeding materials. It is an efficient and accurate operator, which can work in harsh environments.



## 自动分拣系统 AUTOMATIC SORTING SYSTEM

自动分拣系统是先进配送中心所必需的设施，高效率的分拣系统通常每小时可分拣商品6000-12000箱。自动分拣机是提高物流配送效率的一项关键因素，目前已经成为大中型物流中心不可缺少的一部份。

The automatic sorting system is a necessary facility for an advanced distribution center. With a high sorting efficiency capability, it usually can sort 6,000 - 12,000 boxes of commodities per hour. It can be said that the automatic sorting machine is a key factor to enhance the logistics distribution efficiency. So far, it has become an indispensable part of the large and medium-sized logistics centers in developed countries.







## 自动导引小车 AUTOMATIC GUIDED VEHICLE (AGV)

自动导引小车 (AGV) 可接受搬运命令, 利用各种自动导引方式选择运行路线和速度, 在一定范围内进行搬运作业, 遇障碍物可自行停车等待或绕行。

Automatic Guided Vehicle (AGV) can receive the order of handling. It can make use of various automatic guide modes to select the operation route and speed, and conduct the handling operations within a certain range. When encountering an obstacle, it can automatically stop to wait or make a detour.



## 专用物流设备 SPECIAL LOGISTICS EQUIPMENT

根据物料系统搬运不同物料的特殊需求, 北自科技研制出多种专用物流设备。如化纤用纱锭自动落筒搬运车、气瓶输送和搬运设备、EMS小车等。

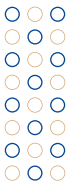
According to the special demands of the material system for handling different materials, R.T.D. has researched and developed various special logistics equipment, such as automatic carrier of spindles for chemical fiber, gas cylinder conveying and handling of equipment, and the EMS trolley.



## 计算机监控管理系统 COMPUTER MONITORING AND MANAGEMENT SYSTEM

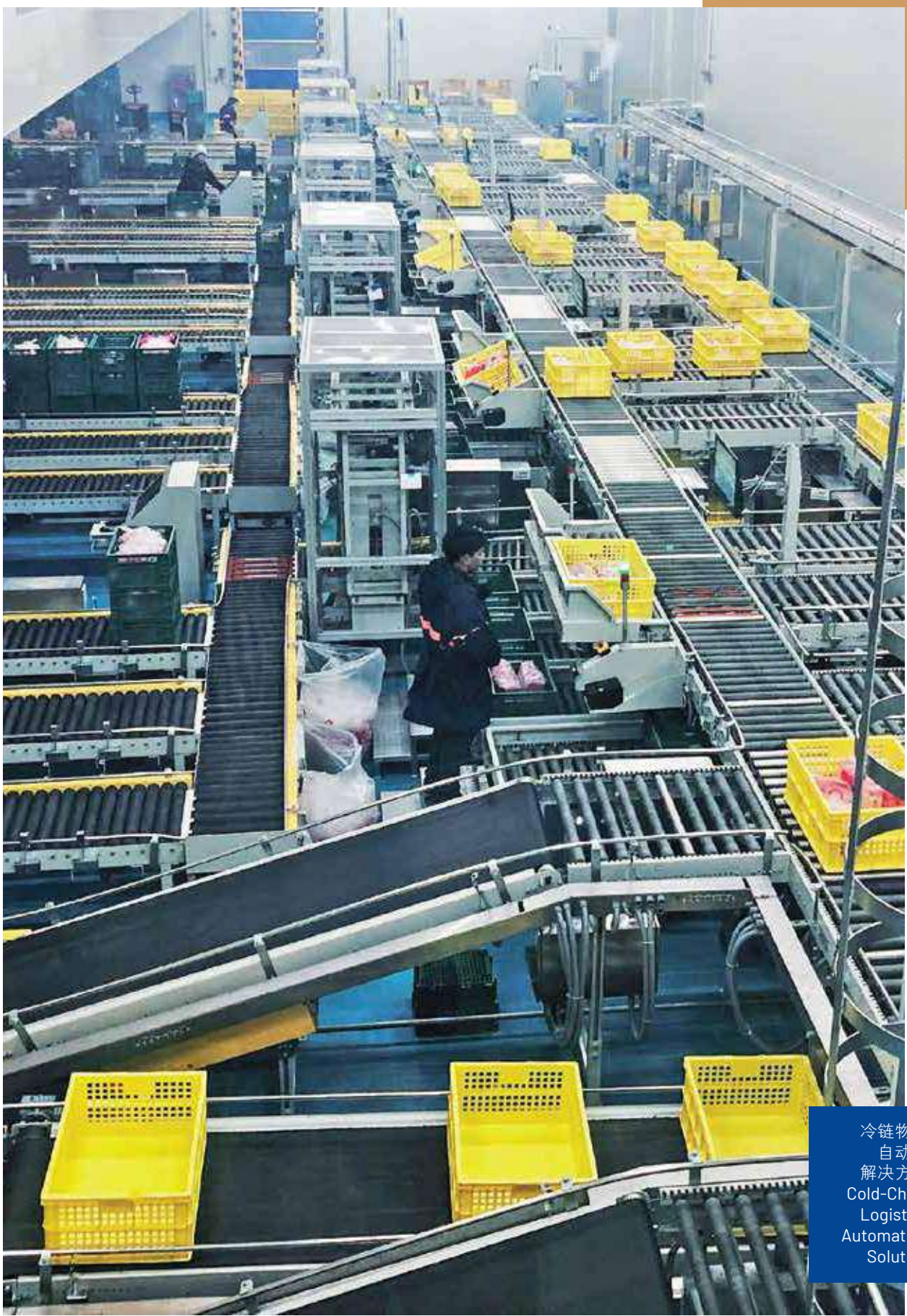
计算机监控管理系统的主要功能是对出入立体库的货物进行高动态管理和调度, 及时准确地完成出入库作业, 实现货物信息的同步管理。

The main function of the computer monitoring system is to conduct a highly dynamic management and scheduling of cargo entering or leaving ASRS. It can accurately complete the warehouse operation in time, and accomplish the synchronous management of cargo information.

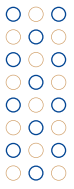


# SOLUTIONS

解决方案



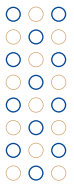
冷链物流  
自动化  
解决方案  
Cold-Chain  
Logistics  
Automation  
Solution



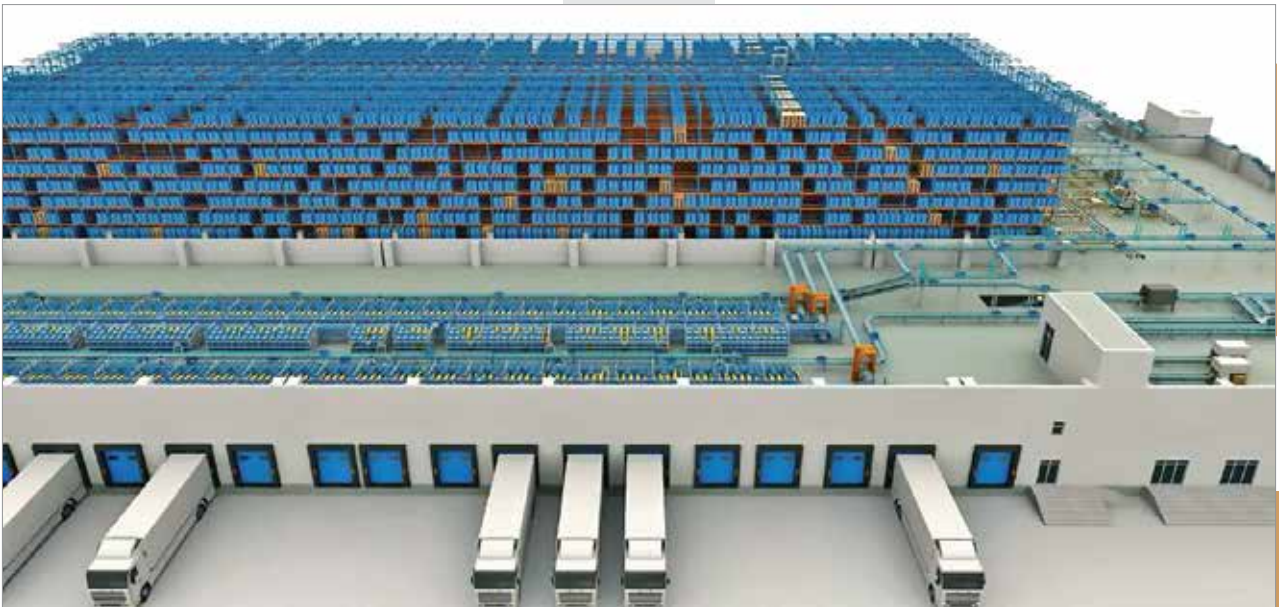
# SHUTTLE INTELLIGENT WAREHOUSING SOLUTION

穿梭式智能仓储解决方案





# SOLUTIONS for your Door Openings, Docking & Logistics Automation Issues



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