

*The product specifications of this album are subject to change without prior notice.
Since this album is a printed matter, there is a certain color difference between the
actual object and the picture. Please refer to the actual object.



OUR PRODUCTION MADE BY ROBOT

- Manipulator
- Robot
- Water and electrical system
- Centralized feeding system
- Automation solution supplier

TAIZHOU BEST AUTOMATION TECHNOLOGY CO.,LTD
TAIZHOU SHENTAI INTELLIGENT ROBOT CO., LTD
TAIZHOU SONDUO MANUFACTURE CO.,LTD

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SALES HOTLINE:
400-993-0007



Whatsapp



Scan the QR code to enter
the official website



COMPANY PROFILE

Shentai Robot Co., Ltd. is a branch of Taizhou Best Automation Technology Co., Ltd. It is a high-tech enterprise integrating R&D, production and sales.

The company's products help enterprises reduce human resources, save production costs, increase output, and achieve automated and unmanned production. We adhere to the business philosophy of "integrity-based, service first", win customer satisfaction with efficient and fast services, establish a perfect service system, and extend service content to the entire process of pre-sales, sales, and after-sales to achieve comprehensive and thoughtful zero-defect services. Help you build a new intelligent and digital production system factory.

The company's main business scope includes industrial robot applications (welding, grinding, loading and unloading, palletizing, spraying, etc.), injection molding machine manipulator applications (non-standard parts picking, insert embedding, in-mold labeling, etc.), whole plant planning (water Electrical design and construction, central feeding system, AGV, logistics warehousing, etc.), non-standard customization and other automation projects.

Sonduo manufacture can supply you good quality plastic injection mold.

MAIN PRODUCTS

- ▲ Smart factory project planning
- ▲ Special manipulator for STAR and BEST injection molding machines
- ▲ Industrial robots
- ▲ Workshop water and electricity, centralized feeding system, green energy engineering projects
- ▲ BEST horizontal tool testing, non-standard tooling fixtures, and assembly lines

COMPANY STRENGTH



PROFESSIONAL TECHNICAL TEAM



PRODUCTION AND PROCESSING WORKSHOP



ADVANTAGE

- Rich experience since year of 2008
- Local market share over 70%
- Located in Taizhou, China, plastic & mold town in China
- Automation solution supplier

MANIPULATOR SERIES

- 7.5-inch color LCD touch screen
- Servo drive
- Plug-in user programmable features
- USD communication port



INCLINE ARM MACHINE SERIES

Product description

Incline arm machines are usually equipped with compactly designed cylinder-driven arms with multi-program operating systems. It is designed for gate picking and part disassembly on injection molding machines from 15 tons to 250 tons without high requirements on product or gate speed.

Product parameters

Product type	Single inclined arm manipulator
Product number	650-750
Up and down stroke	650-750mm
Hidden stroke	120mm
Angle of rotation	45-90°
Pick up time	0.8s
Weight	37kg
Cycle Time	4.2s
maximum load	2kg



EASIER OPERATION · QUALITY ASSURED

> 7.5-inch color LCD touch screen

The screen is large and easy to operate.

> Step action

Using step operation, the robot implements the set actions step by step, and the setting conditions of the robot can be confirmed.

> Improve recognizability

The buttons on the operation panel are colored according to different functions, which enhances recognition.

> Plug-in & programmable functionality

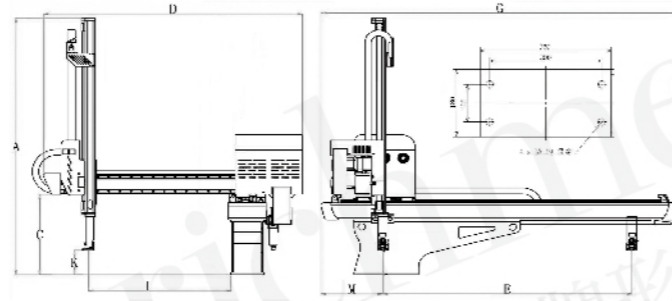
The simple setting function of NC program allows you to specify the insertion position during step operation.

> USB communication port

Easy to connect to computer.



3 axis servo single arm single section

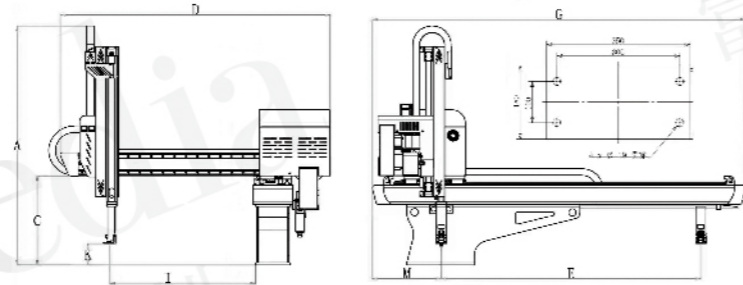


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-900S-3	80-220T	900	620	1350	90°	5KG	2.5	6	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	1.9	310
BEST-1100S-3	220-320T	1100	800	1600		5KG	2.5	6		5-7	8		1.9	310

DIMENSIONS

Model	A	C	D	E	G	I	K	M
BEST-900S-3	1650	475	1420	1350	1950	620	145	320
BEST-1100S-3	1850	475	1600	1600	2200	950	110	350

3 axis servo single arm double sections

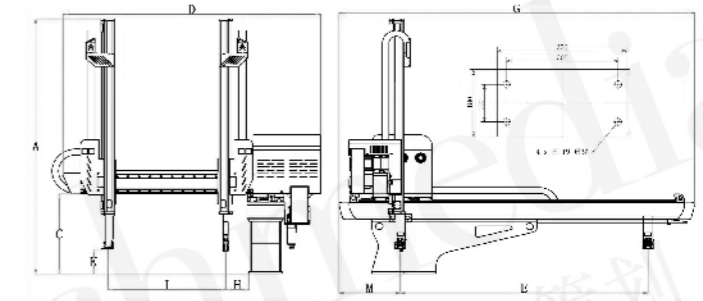
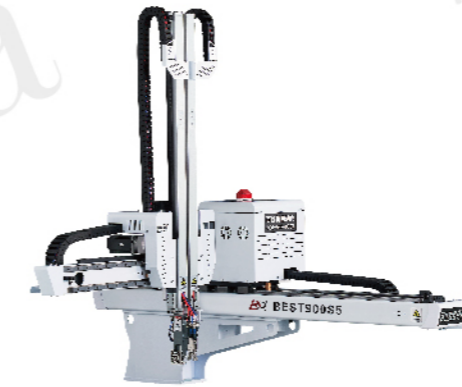


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-900SD-3	80-220T	900	620	1360	90°	5KG	2	6	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	1.55	280
BEST-1100SD-3	220-320T	1100	800	1600		5KG	2	6		5-7	8		1.9	310
BEST-1300SD-3	320-530T	1300	980	1820		5KG	2.2	6		5-7	8		1.9	330

DIMENSIONS

Model	A	C	D	E	G	I	K	M
BEST-900SD-3	1300	475	1420	1350	1950	770	110	350
BEST-1100SD-3	1420	475	1600	1600	2200	950	110	350
BEST-1300SD-3	1540	475	1870	1820	2450	1130	110	350

5 axis servo double arms single section

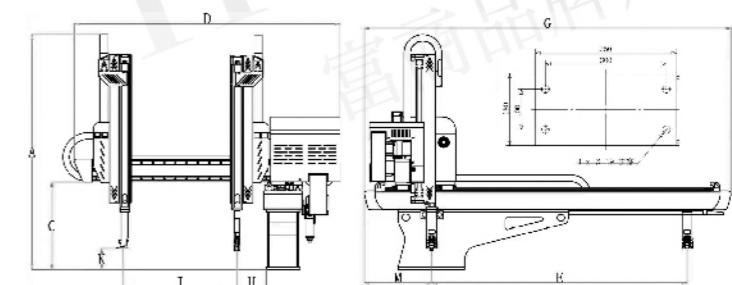


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-900S-5	80-220T	900	Main: 620 Jib: 620	1360	90°	5KG	2.5	6	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	3.05	325

DIMENSIONS

Model	A	C	D	E	G	H	I	K	M
BEST-900S-5	1530	475	1420	1350	1950	130	620	145	320

5 axis servo double arms double sections

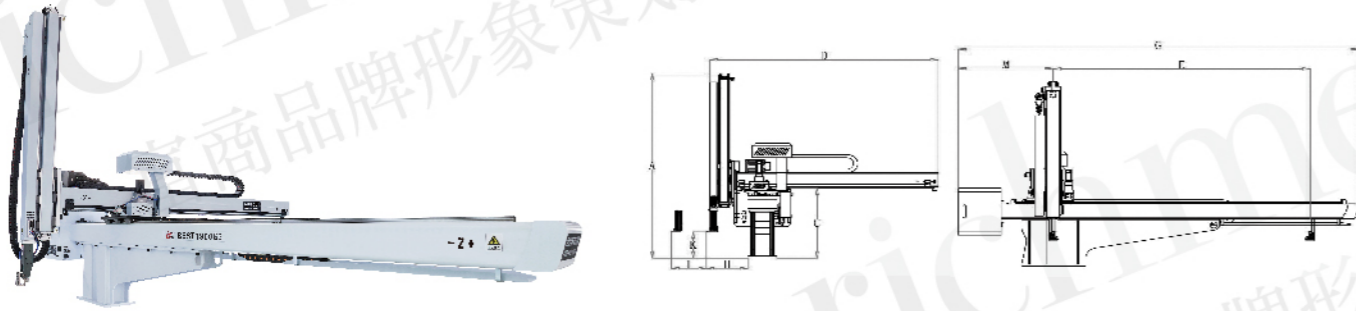


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-900SD-5	50-220T	900	Main: 620 Jib: 620	1350	90°	5KG	2	6	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	2.35	300
BEST-1100SD-5	220-320T	1100	Main: 800 Jib: 800	1600		5KG	2.5	6		5-7	8		3.05	325
BEST-1300SD-5	320-530T	1300	Main: 980 Jib: 980	1820		5KG	2.5	6		5-7	8		3.05	360

DIMENSIONS

Model	A	C	D	E	G	H	I	K	M
BEST-900SD-5	1300	475	1420	1350	1950	150	620	110	350
BEST-1100SD-5	1420	475	1600	1600	2200	150	800	110	350
BEST-1300SD-5	1540	475	1870	1820	2450	150	980	110	350

3 axis servo bull head single arm double sections

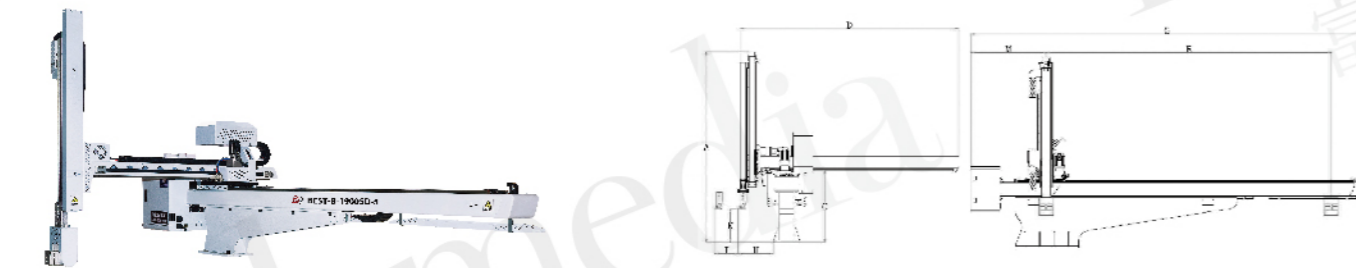


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-B-1300SD-3	320-530T	1300	1185	1880	90°	5KG	4.2	6	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	2.35	540
BEST-B-1500SD-3	650-1000T	1500	1640	2300		8KG	5.2	8		2.35	566			
BEST-B-1700SD-3	800-1200T	1700	1880	2600		10KG	6	12		2.35	1068			
BEST-B-1900SD-3	1200-1800T	1900	2120	2900		10KG	6	12		2.35	1200			

◎ DIMENSIONS

Model	A	C	D	E	G	H	I	K	M
BEST-B-1300SD-3	1440	500	1495	1880	2940	310	870	30	680
BEST-B-1500SD-3	1900	720	2000	2300	3450	360	1300	270	820
BEST-B-1700SD-3	2020	720	2240	2600	3750	360	1540	270	820
BEST-B-1900SD-3	2080	720	2480	2900	4050	360	1780	270	820

5 axis servo bull head single arm double sections

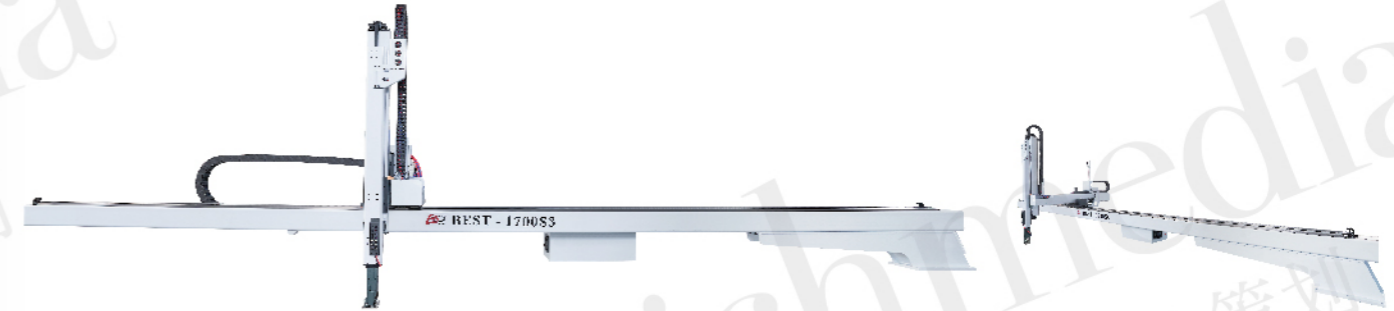


Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)	N.W (kg)
BEST-B-1900SD-5	1100-2000T	1900	2120	2900	90°	10KG	6	12	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	2.35	800
BEST-B-2200SD-5	1500-2200T	2200	2000	3120		25KG	8	12		4.5	1200			
BEST-B-2500SD-5	1800-2500T	2500	2300	3600		50KG	8	15		4.5	1300			
BEST-B-3000SD-5	2200-2800T	3000	2685	4080		50KG	12.5	20		4.5	1400			

◎ DIMENSIONS

Model	A	C	D	E	G	H	I	K	M
BEST-B-1900SD-5	2080	720	2480	2900	4050	360	1780	270	820
BEST-B-2200SD-5	2540	950	2465	3120	4480	460	1550	380	950
BEST-B-2500SD-5	2660	950	2765	3600	4960	460	1850	380	950
BEST-B-3000SD-5	2900	950	3145	4080	5440	460	2330	380	950

3 axis servo longitudinal single arm double sections



Model	Applicable to injection molding machines	Up and down	Lead	Horizontal movement	Side angle	Max load (including fixtures)	Take out	Empty loop	Drive mode	Working pressure (kgf/cm ²)	Air consumption (nl/cycle)	Power supply	Power consumption (Kva)
BEST-L-900SD-3	80-220T	900	Custom made	Custom made	90°	3KG	2.2	9	Full AC servo motor drive	5-7	8	Single phase AC220±10V 50/60HZ	2.35
BEST-L-1100SD-3	250-320T	1100	Custom made	Custom made		5KG	2.6	10		3.05			
BEST-L-1300SD-3	350-470T	1300	Custom made	Custom made		3KG	2.7	13		3.35			
BEST-L-1500SD-3	830-800T	1500	Custom made	Custom made		5KG	3.7	15		4.05			
BEST-L-1700SD-3	800-1000T	1700	Custom made	Custom made		7KG	4.5	17		5			
BEST-L-1900SD-3	1100-1800T	1900	Custom made	Custom made		10KG	5.5	20		5.5			
BEST-L-2200SD-3	1500-2100T	2200	Custom made	Custom made		15KG	8	27		6.5			

More models manipulator available, for example: 5 axis servo longitudinal single arm double sections; 3 axis servo longitudinal single arm single section ... Automation equipment can be customized based on your detailed request, welcome your first enquiry, believe you will receive our every satisfaction.

Application scenarios



Robot clamp parts product

Our company has various professionals including clamp product development designers, clamp plate designers, clamp plate installation and commissioning engineers, and clamp sales and service engineers, who can provide customers with high-quality and efficient services.

FRAME SERIES

- ◆ Three-dimensional frame steel pipe series
- ◆ Three-dimensional frame profile series
- ◆ Three-dimensional frame SUS series



FIXTURE EXCHANGE

- ◆ Quickly exchange accessories Manual / Auto



SUCKING



◆ Suction cup

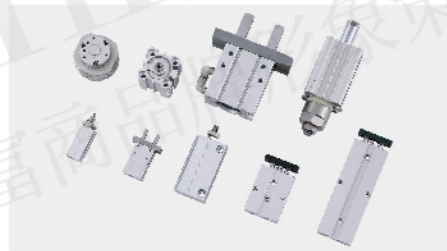


◆ Vacuum generator/filter confirmation valve

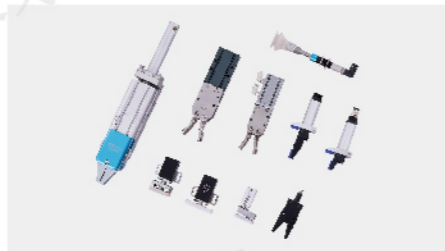


◆ Jig accessories

GRAB



◆ Micro cylinder, rectangular cylinder



◆ Functional fixture



◆ Accessories

PIPING PARTS AND SENSORS



◆ Pipe connector



◆ Sensor

CUT



PARTS

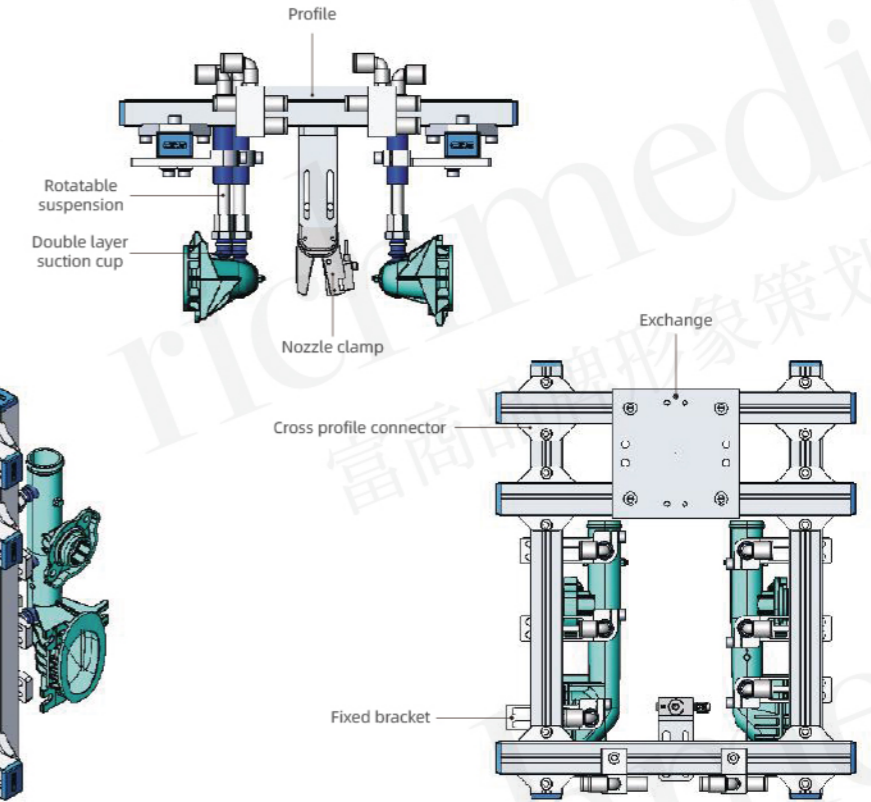
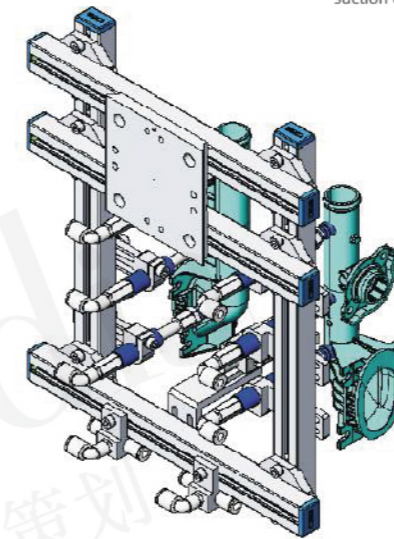


Application examples

Basic framework

Product description:

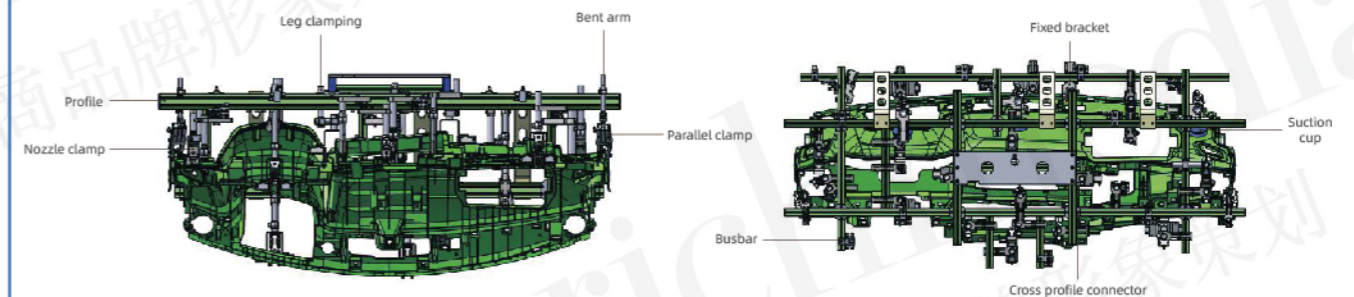
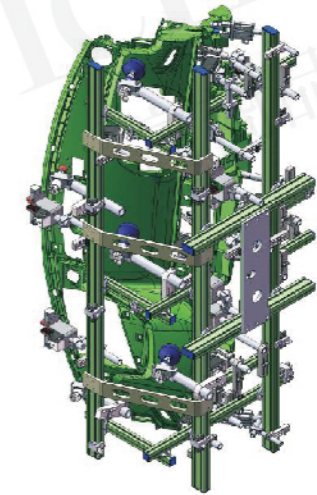
- The product is one mold with two cavities.
- The product is taken out with a suction cup, and the material head is taken out by nozzle clamp.
- The air path is two suction and one clamp
- The clamp is about 2.0kg



Product description:

- Jig name: Instrument panel removal jig
- Machine tonnage: 2700T
- Jig weight: 25KG
- Number of feed heads: 11

Due to the short molding cycle of this product, the removal + shearing action needs to be completed in the mold. The shearing accuracy is required to be within 0.3mm. The clamp uses a traceless suction cup, the clamping contact part uses a soft rubber pad, and the angle is adjustable with a multi-functional curved arm. Clamping.



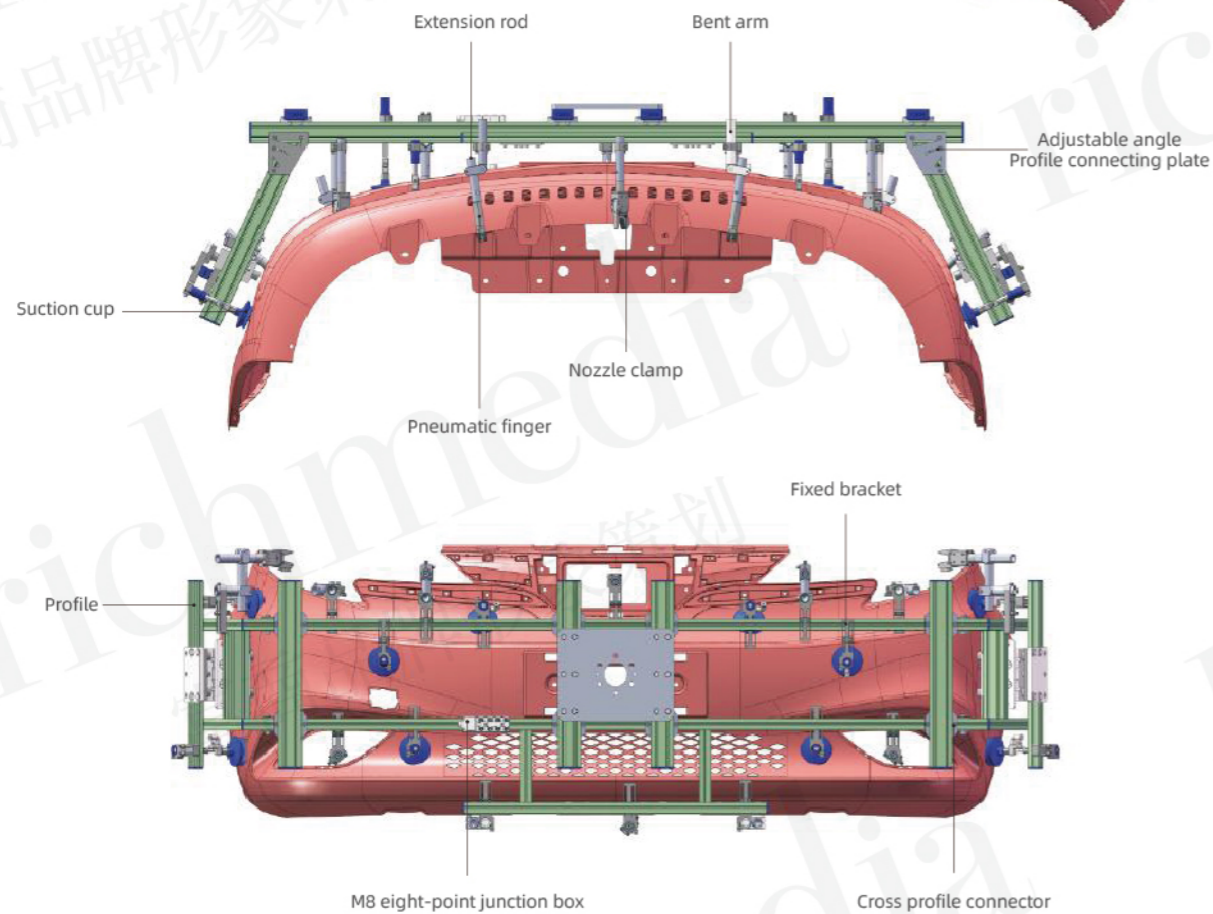
Application examples

Basic framework

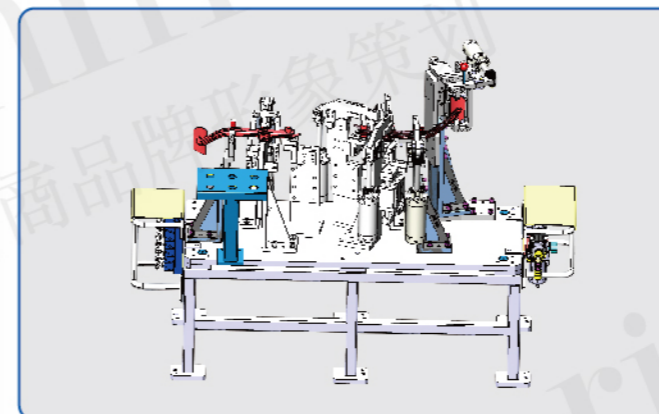
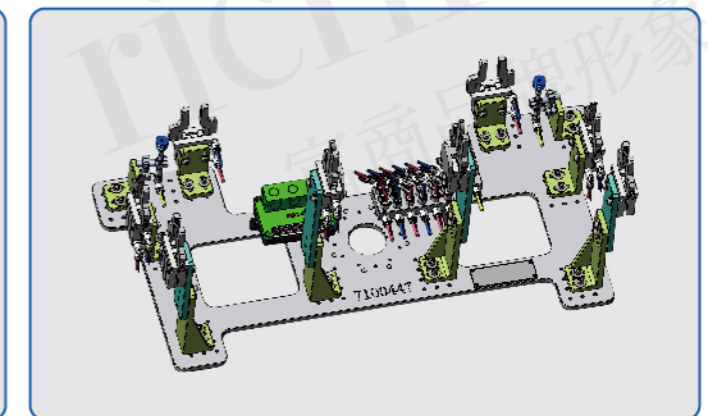
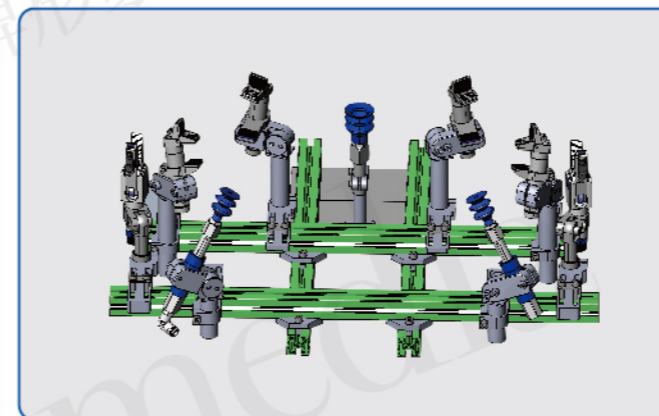
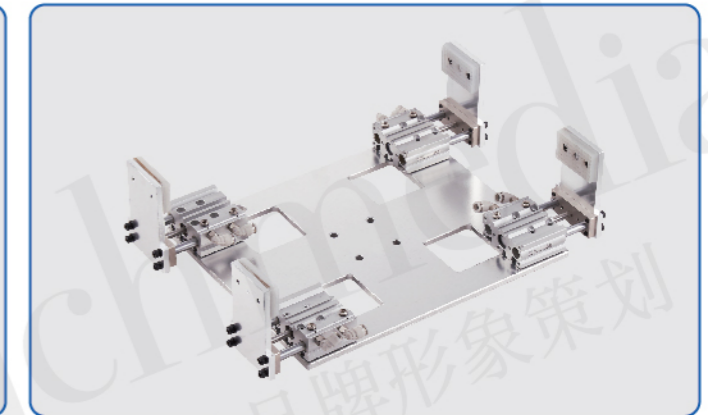
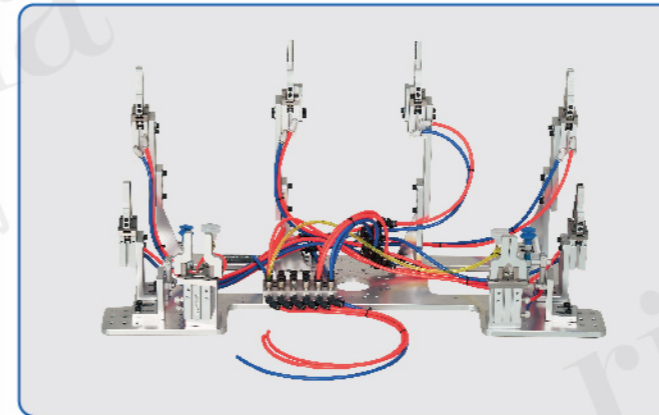
Product description:

- Jig name: bumper removal jig
- Machine tonnage: 1800T
- Jig weight: 20KG
- Number of feed heads: 8 pieces

If the product cannot be demoulded smoothly, it needs to be equipped with a cylinder side pull assist. The product contact surface uses a traceless suction cup, a soft rubber pad is used for the clamping contact part, and an angle-adjustable multifunctional curved arm is used to complete the clamping.

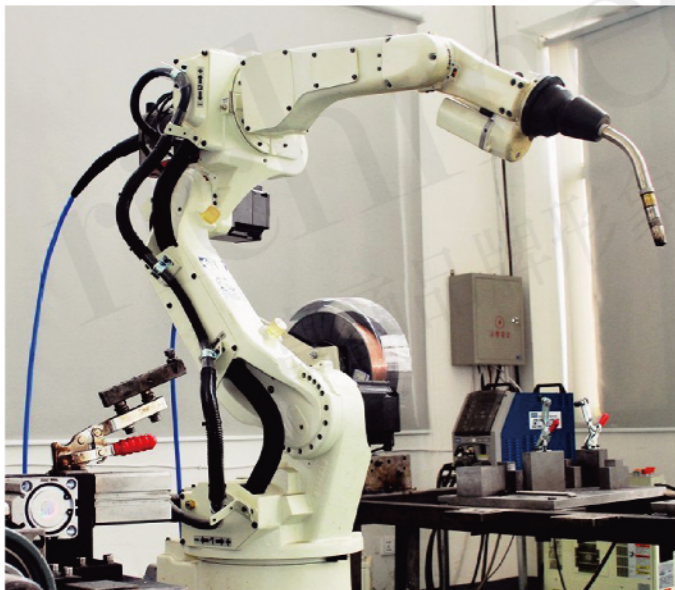


Framework model



ROBOT SERIES

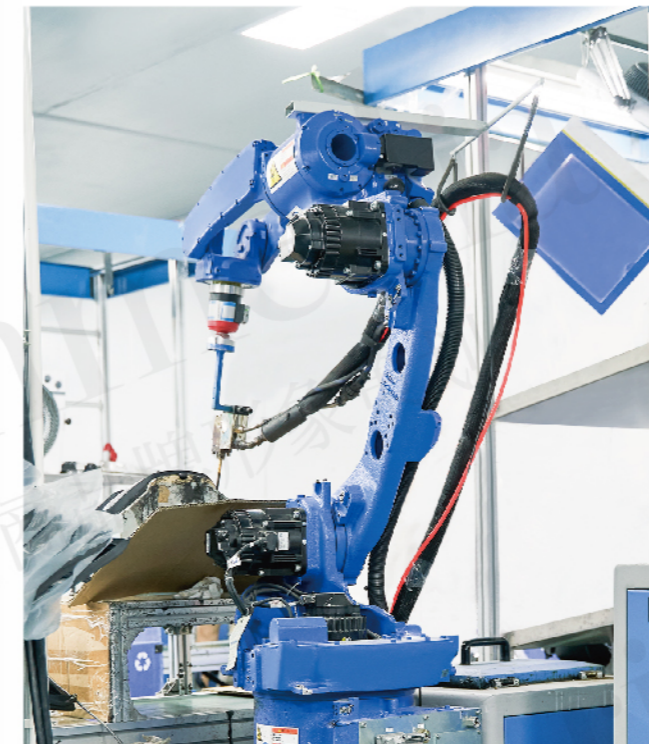
- Efficient and reliable, saving about 40% of time
- Can perform complex operations, arc welding, spot welding, inserts, spraying, loading and unloading material, palletizing, handling, polishing and grinding, assembly
- Accuracy reaches 0.06 mm
- Can be installed on the ground, top, or inside to maximize space utilization



APPLICATION AREAS

General industrial industry

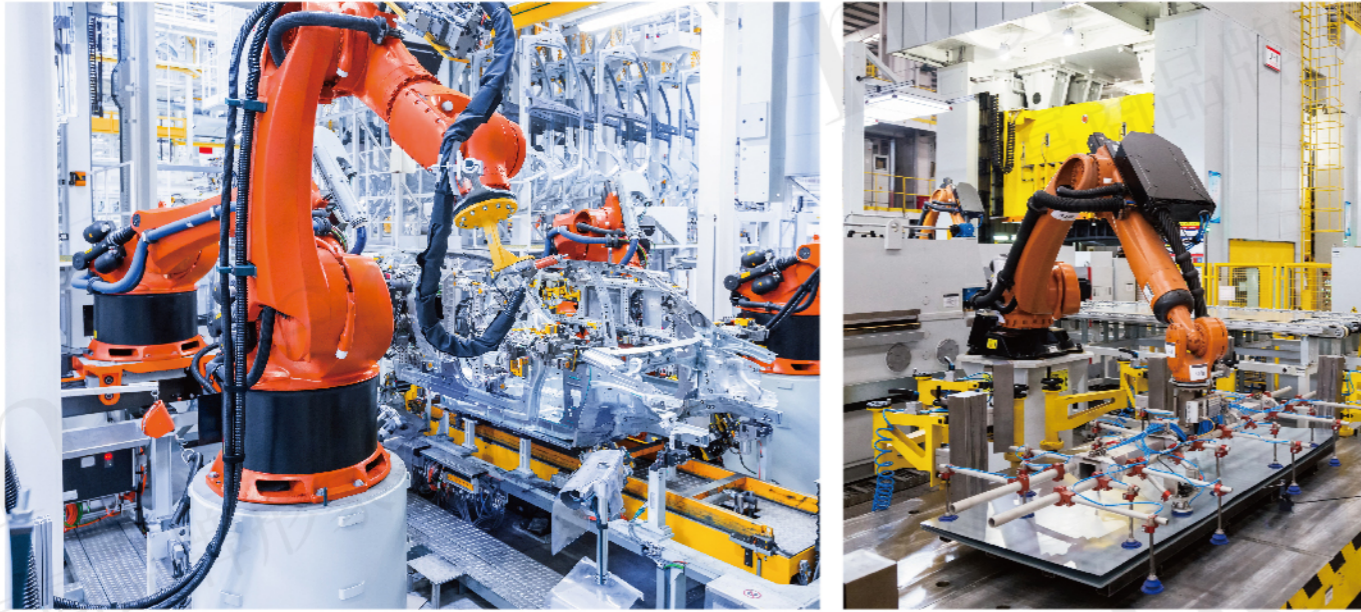
Best automation are mainly used in the fields of casting, plastics, video, metal, machinery and mechanical devices. They can realize functions such as welding, grinding, handling, painting, welding, handling, loading and unloading, and palletizing, helping companies achieve automated production. Complete high-volume, high-quality work on behalf of people, improve production efficiency, and reduce operating costs. So far, Best has provided services to many enterprises and has been unanimously recognized. On the road of technology changing the world, "Automation substitution" is the general trend. Complete sets of industrial robot automated production line equipment have become the mainstream of automation equipment and the future development direction. We will use forward-looking products to bring more intelligent automation products to enterprises.



APPLICATION AREAS

Automobile industry

The automotive industry is constantly evolving and innovating. In order to meet the growing needs of customers, automakers must develop standardized product joint solutions, and continue to lead the market and use innovative technologies and cost savings to expand customer needs. At the same time, they also need to improve product quality to meet the expanding demand for export cars from Asia. Our equipment is suitable for various applications in the automotive manufacturing field, including arc welding, spot welding, laser welding, cutting, gluing, bending, edge wrapping, handling, palletizing, assembly, measuring, painting, etc. The business scope covers the design and planning of automobile manufacturing projects, stamping automation connections, robot flexible hemming, body-in-white welding lines, robot welding units and other aspects.

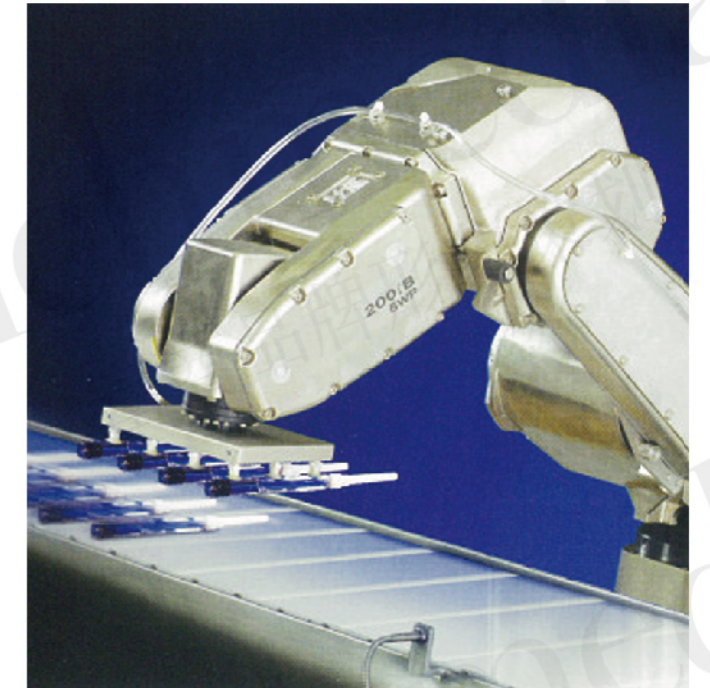


Food and pharmaceutical industry

"Safety" is Best automation's pursuit



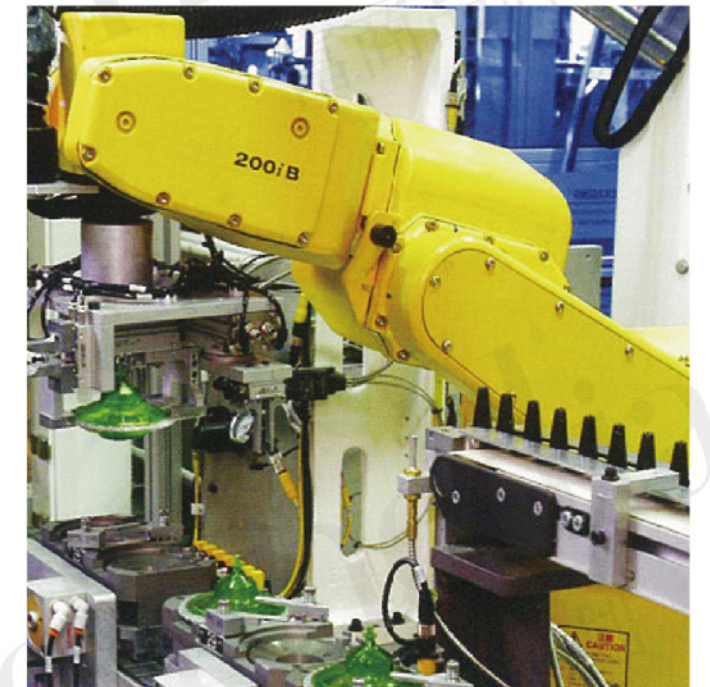
• Frame robot welding unit



• Grabbing robot cell



• Food palletizing robot cell

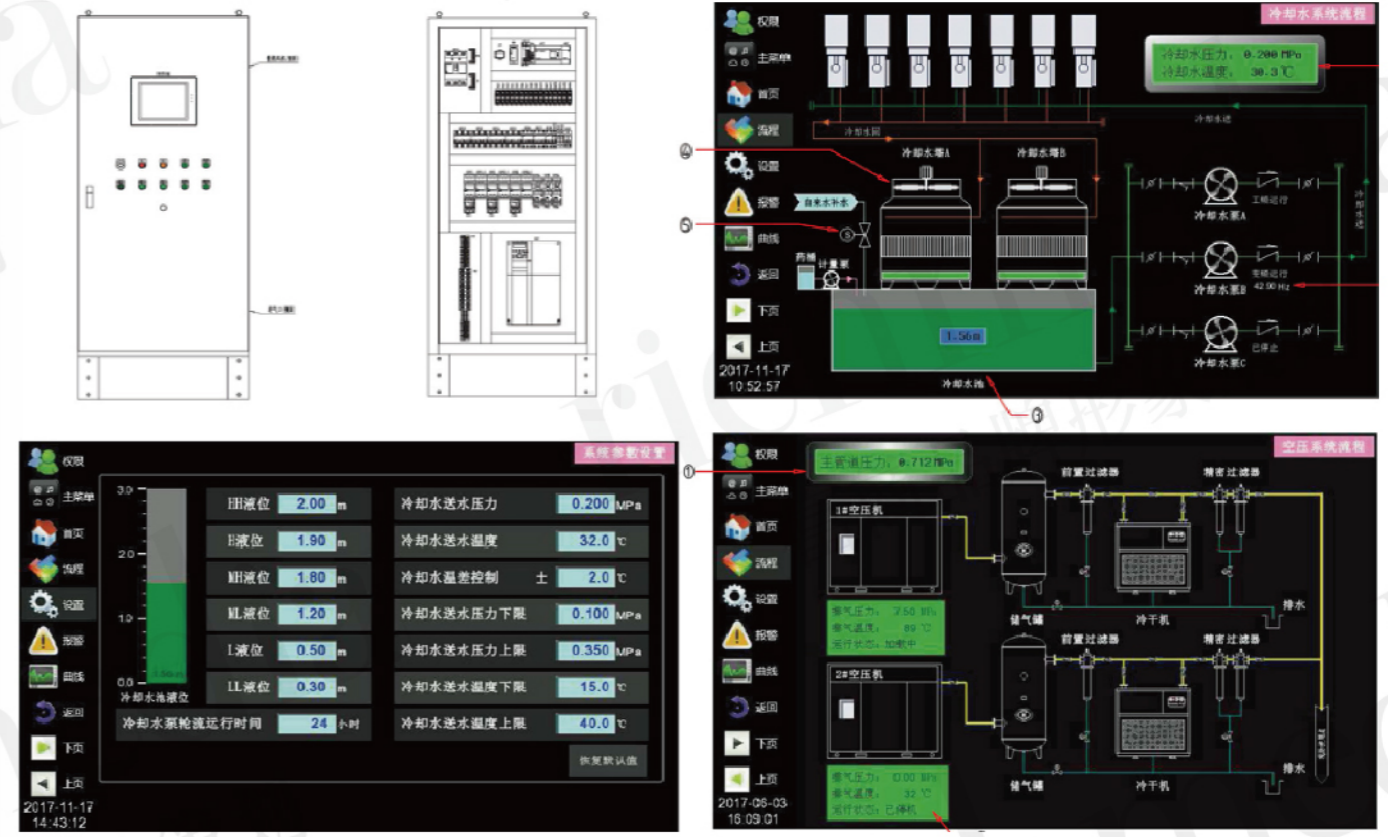
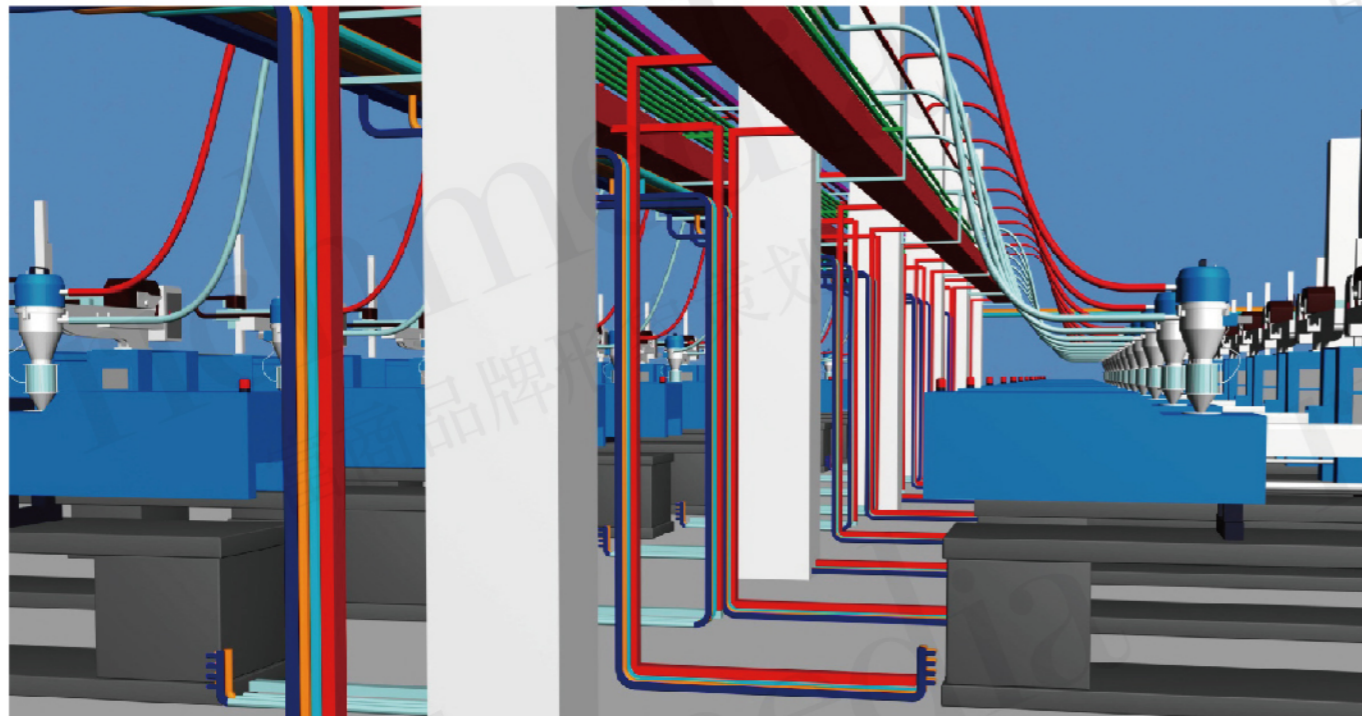
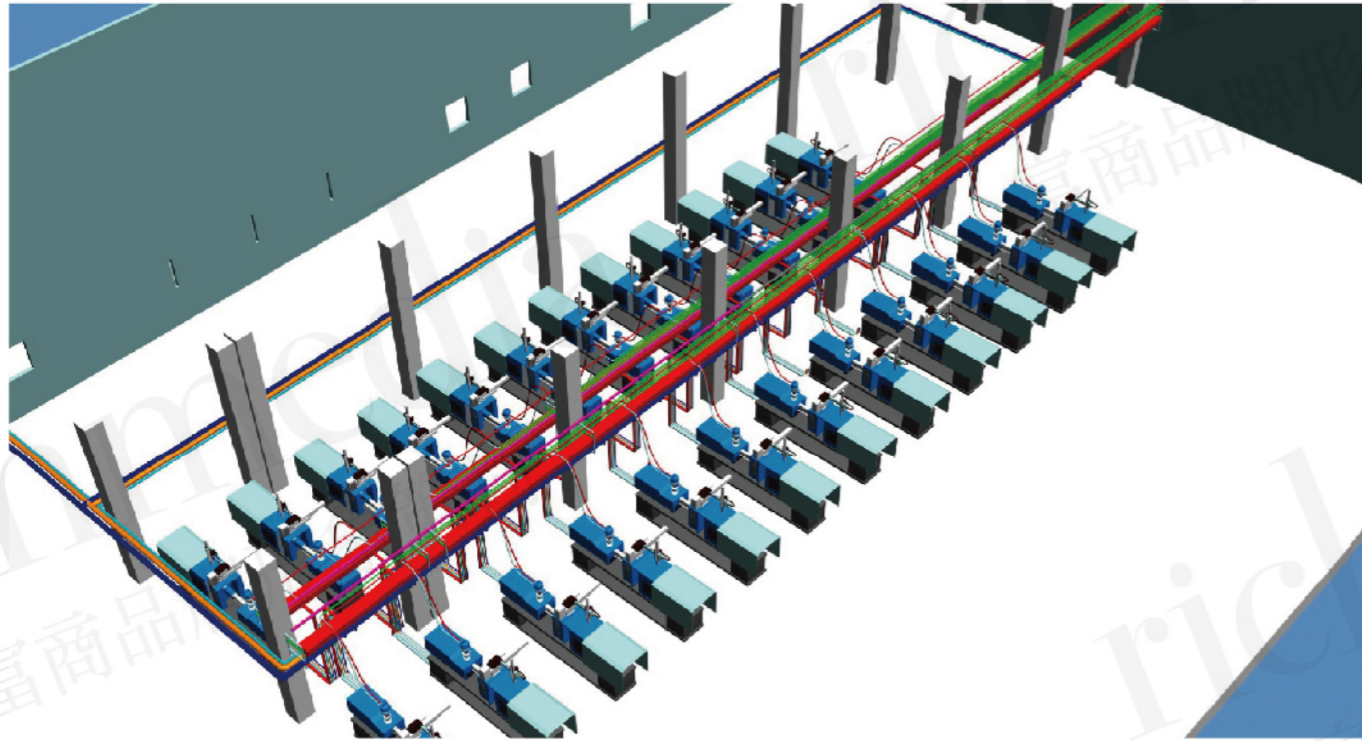


• Online vision inspection robot cell

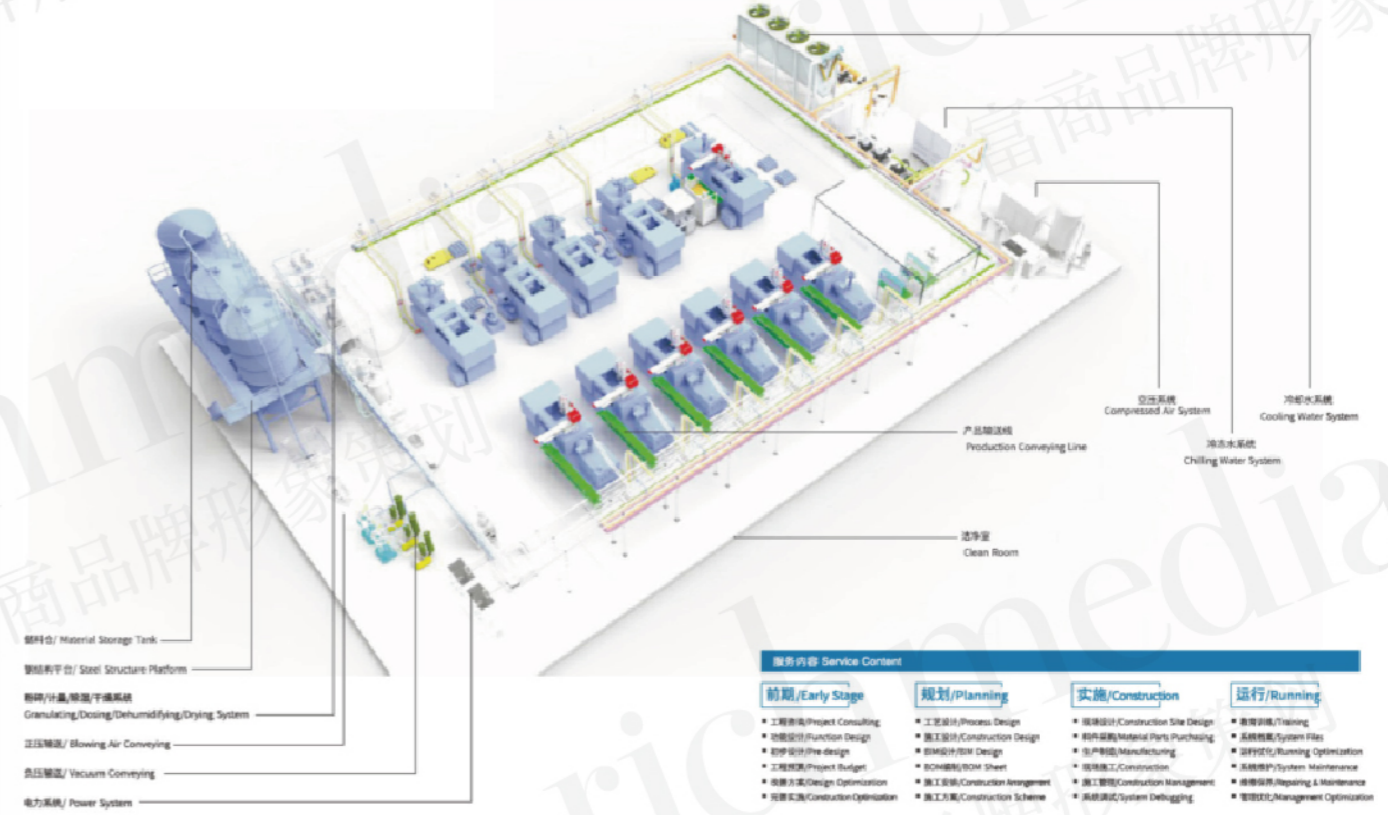
WATER AND ELECTRICAL SYSTEM

The intelligent water and electricity system is equipped with water pipes and air pipes for transportation, and the cable bridge and centralized feeding system are transported using the main beams of the workshop to build brackets, making the workshop neat and clean, and the machine pipelines placed uniformly.

The integrated control system automatically deploys to meet the production requirements of each injection molding machine. Equipped with an intelligent management system for water and gas in the automated workshop, variable frequency constant pressure water delivery at the same time, temperature detection to realize intelligent start and stop of the cooling tower, real-time production detection and intelligent equipment alarm maintenance functions.

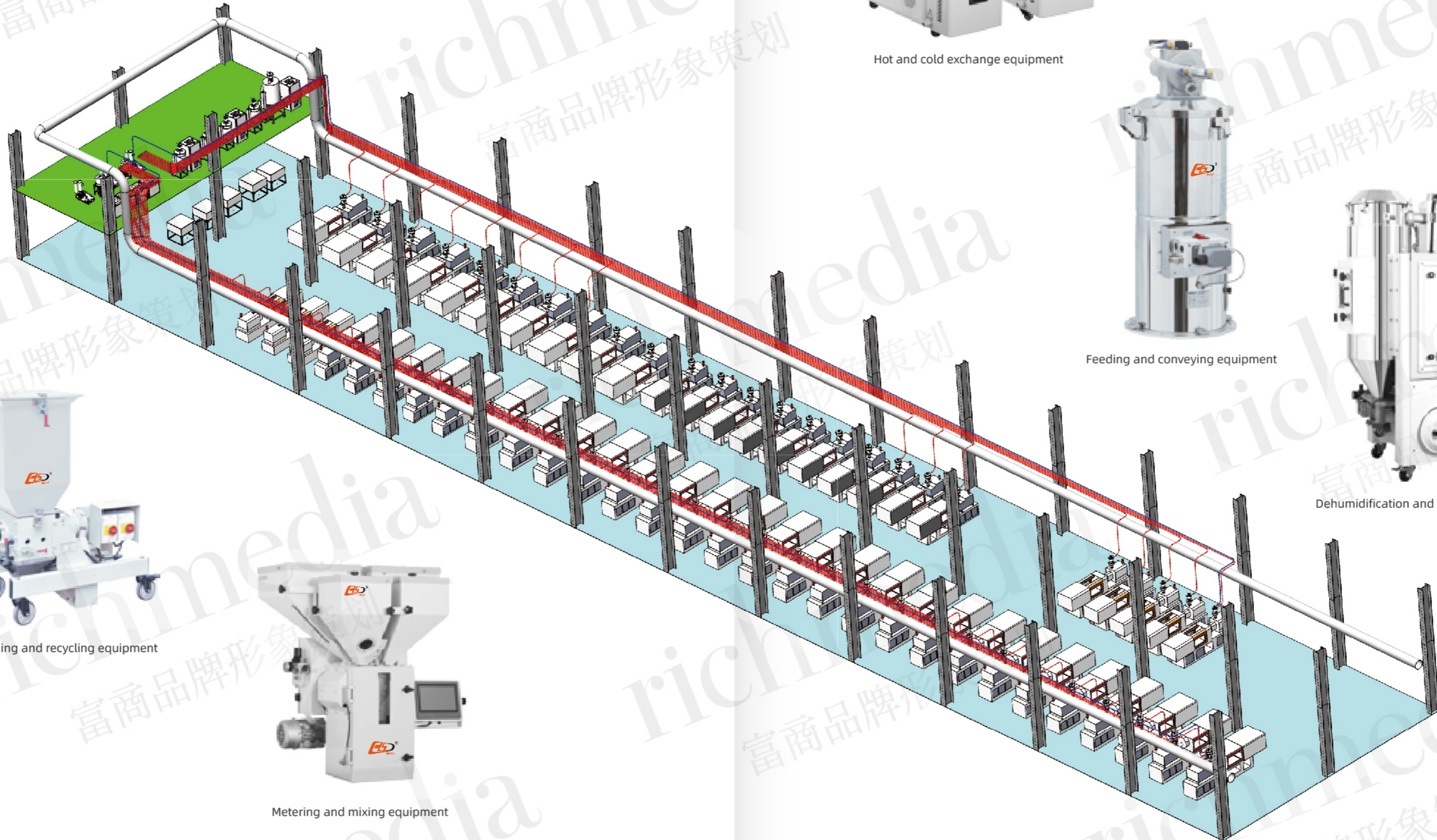


Schematic diagram of green energy unmanned workshop



CENTRALIZED MATERIAL FEEDING SYSTEM

- Energy saving
- Save labor costs
- Keep the factory environment clean and tidy
- Achieve centralized management of raw materials to avoid waste and pollution of raw materials
- Isolate the host and reduce noise pollution



Hot and cold exchange equipment



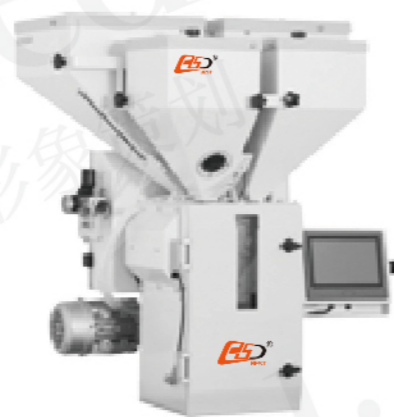
Feeding and conveying equipment



Dehumidification and drying equipment



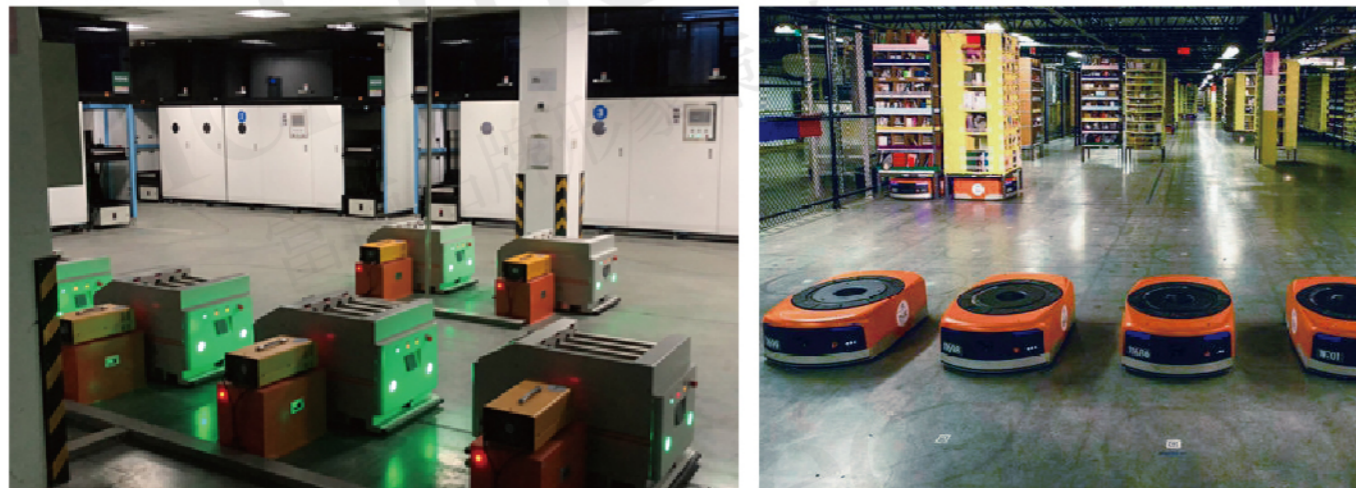
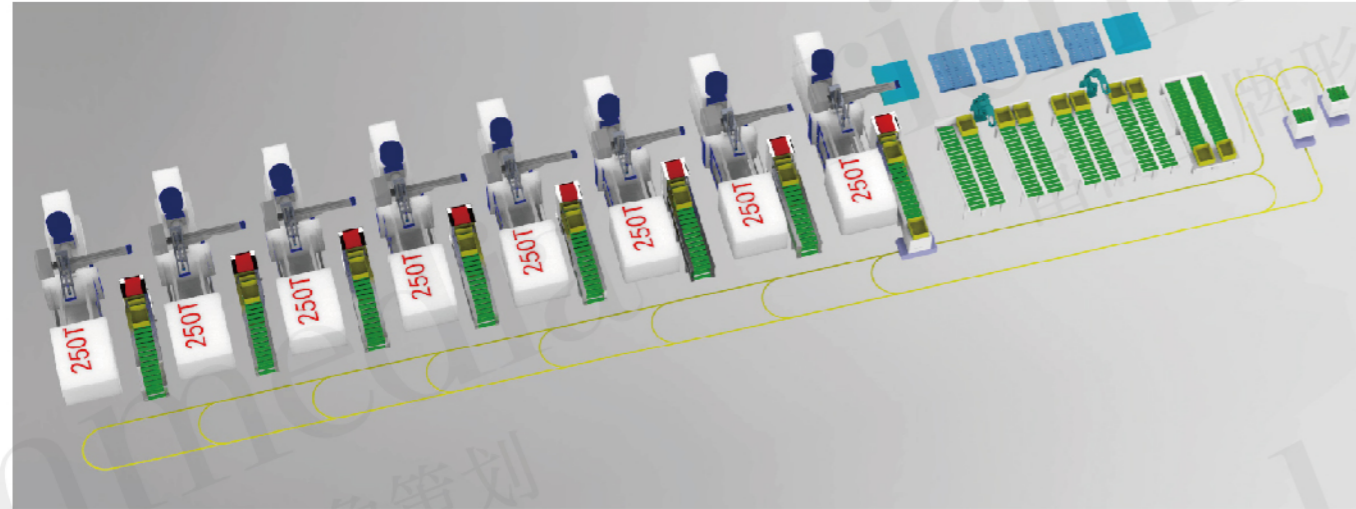
Crushing and recycling equipment



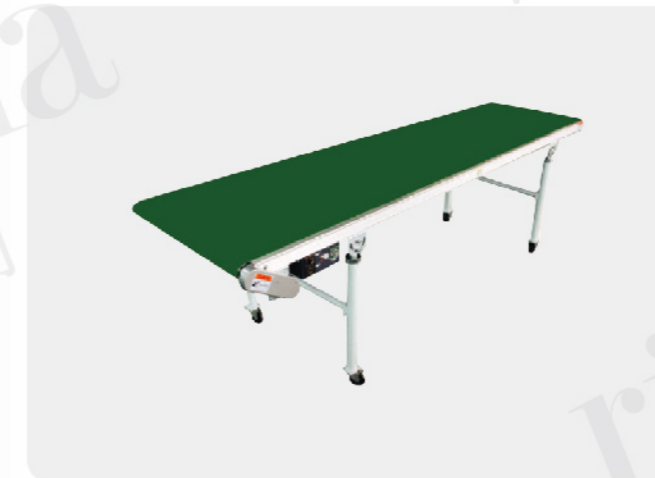
Metering and mixing equipment

AGV CAR INTELLIGENT DIGITAL WAREHOUSING

The intelligent warehouse realizes automatic access, easy operation, quick installation, and has comprehensive material management functions. It also has: dynamic inventory: supports "multiple people + remote + simultaneous" inventory, and can record incoming and outgoing inventory at the same time. The inventory is very convenient. Intuitive. Reproduce inventory status during historical periods to facilitate financial audits. After entering, exiting, and transferring orders, you need to confirm and update the inventory. Use handheld computers to confirm documents, take inventory, and query statistics. RFID is associated with position No. 4 (rack level). Registration of items subject to mandatory inspection, incoming quality inspection confirmation, and external inspection notice. Requisition quotas, reserve quotas, and project quotas. Materials are managed throughout the entire process from warehousing to leaving the warehouse until they are scrapped.



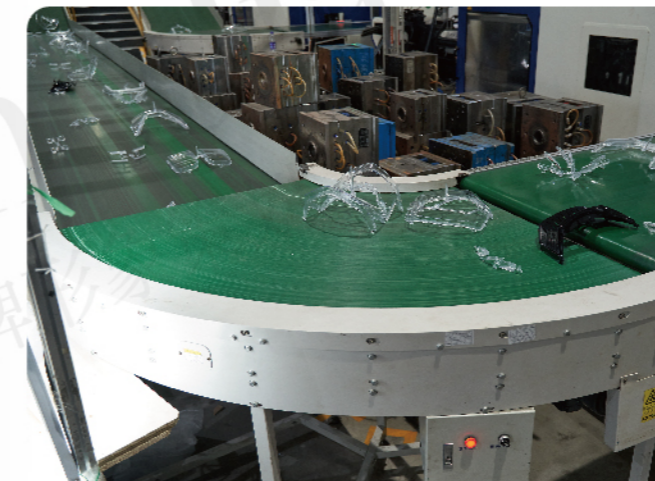
STANDARD ROBOT WORK CELL



◆ Parallel conveyor belt



◆ Incline conveyor belt



◆ 90 degree turn line



◆ 180 degree turn line



◆ Assembly line



◆ Assembly line site

PROJECT SAMPLE WORKSHOPS

