



# JIAYU AUTOMATION

Global Quality Supplier of Industrial Autom

With Advanced Intelligent Manufacturing Technol  
Make Industrial Production Intelligent, Green And

## COMPANY PROFILE

Jiangxi Jiayu Automation Technology CO., LTD. is created in 2020, located in High-tec zone of Taihe Jian, Jiangxi. The covering area is about 10000 sqm and the number of employees is about 100 people. Hundreds of patents certified by the ISO9001:2015 are applied. We are national high technology company who specialized in R&D , manufacturing and selling in together . Devoted to offer the high intelligent solutions for customers and achieve to the automatic, data analyzing info, AI factory.

Our main machine projects suitable for this kinds of areas : electric connectors in military area , window and door hardware , 3C electronic, medical automatic equipment, cosmetic items , car component. precision electric connector, security Etc. We have been resolved and submitted solutions for our customers . Our automatic machine apply for window and door hardware area, aviation area , precision electric connector/appliances, warehousing logistics, car components , advanced high intelligent services area . Our customer have been expanded almost the world such as South-east Asia , East Asia , East Europe, West Europe , and North America, and South America.



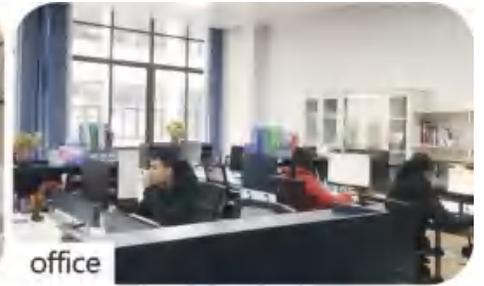
# COMPANY IMAGE



Company receptionist



Reception room



office



Training room



Recreational area



Conference room



canteen

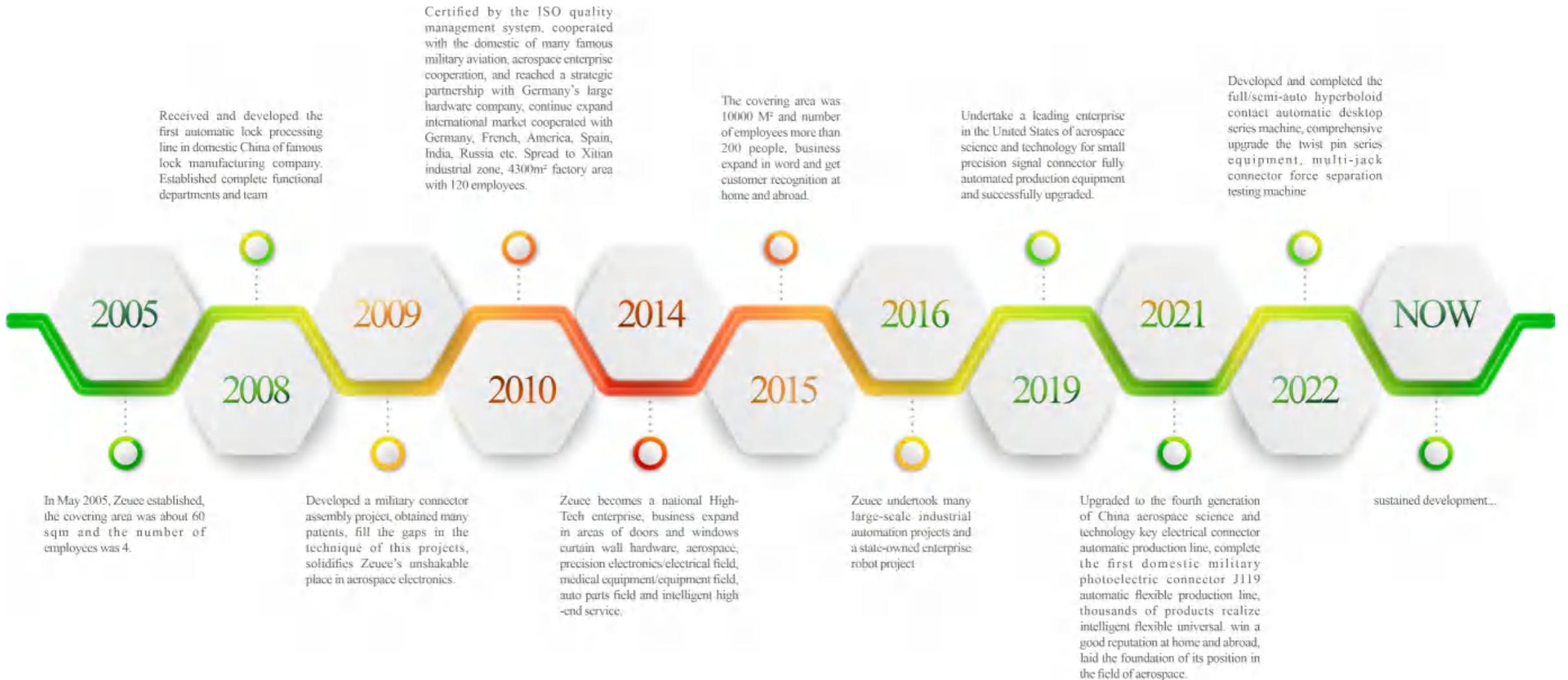


Machine shop



Assembly shop

# HISTORY



# HONORARY CERTIFICATE



**32 +**

authorized invention  
patents

National high and new technology enterprise  
Robot association member in Guangdong province  
The association of Shenzhen high and new technology  
Taihe chamber of commerce, vice President in Guangdong province  
Shenzhen senior software association member units  
China's intelligent manufacturing industry association member

**68 +**

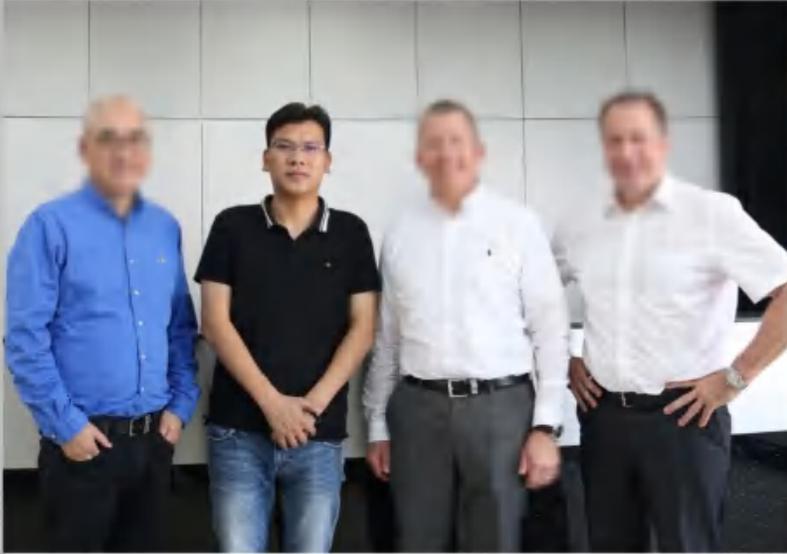
authorized invention  
patents

# CUSTOMERS SERVED



Long-term cooperation with CSGC, China State Shipbuilding, AVIC ,GAC Group, Corning, Hunterdouglas, TE, Sumitomo, TCL, SONY, Foxconn and other outstanding enterprises.

## PHOTOS WITH CLIENTS



German customer



Russian customer



Ireland customer visit



American customer



Canadian customer



Spanish customers



High-tech industry exchange meeting



Danish customers

# Equipment Description



# Photoelectric Connector Automatic Flexible Production Line

This machine can realize the full intelligent flexible production of J119/J14/J36 series



## Equipment Parameter

Capacity	1Pin/2S
Air Pressure	0.4-0.7 Mpa
Voltage	AC 220V/380V
Size	13700*1000*730mm
Use	Equipment J119 series production
Characteristic	Realize production automation, reduce manpower, improve production capacity



Assembly of the guide pin column



Flexible automatic feeding



Laser marking



Automatic grasping system



Automatic dispensing of thread locking adhesive



Automatic assembly of pins



CCD visual inspection



Thread tightening system



Automatic flexible assembly



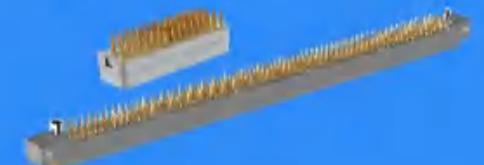
Docking system



Pressure monitoring and storage



Touchscreen human-machine interface



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—  
HYPERBOLOID SOCKET SERIES FOR  
PHOTOELECTRIC CONNECTORS



## CASE PRESENTATION



- Desktop design, compact structure and small floor space. Self-developed feeding system, automatic feeding and blanking, automatic wire feeding/cutting, and simple operation and maintenance.

## Desktop Automatic Wire Threading Machine with Front Sleeve of Hyperboloid



Power	300W
Dimension	600*600*450mm
Equipment Advantages	Φ0.4、Φ0.6、Φ0.76、Φ0.8、Φ1.0、Φ1.5、Φ2.4
Capacity	25-28PCS/MIN
Air Pressure/Voltag	0.4-0.6MPA/220V AC



**Self-developed feeding system**

Self-developed feeding system, automatic feeding and blanking



**Wire storage rack**

Automatic wire feeding / wire cutting



**Desktop design**

Compact structure and small floor space

## CASE PRESENTATION

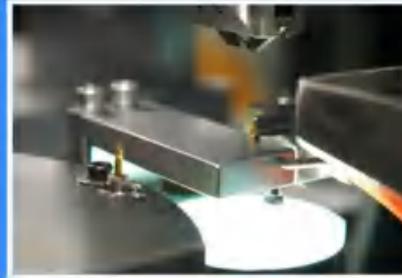


Desktop design, with compact structure, small floor area and fashionable appearance. It has functions such as CCD visual recognition, automatic wire turning and four-point crimping. It is easy to maintain and enables efficient production.

## Desktop fully automatic crimping machine for rear sleeve of Hyperboloid



Power	300W
Dimension	610*750*380mm
Equipment Advantages	Φ0.4、Φ0.6、Φ0.76、Φ0.8、Φ1.0、Φ1.5、Φ2.4
Capacity	15-20PCS/MIN
Air Pressure/Voltag	0.5-0.8 Mpa/220V 50Hz



### CCD visual recognition

Accurately identify whether the front sleeve is broken. Accurately identify the angle of the front sleeve and automatically select and sort the direction.



### High-precision wire turning

High-precision and stable wire turning. The wire turning is uniform with consistent angles. There is no scratch or wire breakage. Precise positioning with zero error.



### Precise four-point crimping

Four-point crimping by servo motor with strong consistency.

## Automatic Wire Threading Machine for Hyperboloid

- The machine has the function of detecting lack of wire and bending wire.
- Wire feeding and cutting jig are all processed by high-precision machine tools, with an accuracy of 0.005mm.
- At present, the wire spring holes produced are 0.4, 0.6, 0.635, 0.8, 1.0, 1.5, 2.0, 2.4, 0.4 outside the wire strip step and 0.9F inside the tape step.
- CCD is added to detect product direction in 0.4 wire drawing and 0.9F, and optical fiber is added for secondary detection when taking materials to ensure correct product direction.

Size	1660*860*1800mm
Capacity	15-17PCS/Min
Power	1000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



**Front cover automatic wire flipping**

High-precision positioning ensures the accuracy and consistency of wire flipping, improving product quality and reliability.



**CCD Visual Detection**

The equipment is equipped with CCD visual photography detection, accurate positioning capture, can automatically distinguish good and bad products



**High Precision CAM Mechanism Four Point Crimping Consistency Is Strong**

It can be produced by pressing and rolling riveting according to customer demand, which is suitable for connector industry

## CASE PRESENTATION



## Hyperboloid Connector Rear Sleeve Crimping Machine (Single Type Single Use Type)

- Automatic wire turning can quickly and accurately complete the wire turning operation of the metal wire at the upper end of the inner sleeve of the semi-finished front sleeve material, improve production efficiency and ensure the stability of the wire turning quality.
- The equipment is equipped with CCD visual photography detection, accurate positioning capture, can automatically distinguish good and bad products;
- It can be produced by pressing and rolling riveting according to customer demand, which is suitable for connector industry.

Size	1300*700*1900mm
Capacity	12-15PCS
Power	300W
Air Pressure/ Voltage	0.5Mpa/220V
Weight	750Kg



### Automatic wire turning

Complete the wire turning operation of the metal wire at the upper end of the inner sleeve of the semi-finished front sleeve material quickly and accurately, improve production efficiency and ensure the stability of the wire turning quality.



### Servo Precision Drive

The machine takes the material and the test uses the servo motor control, can realize the automatic adjustment position

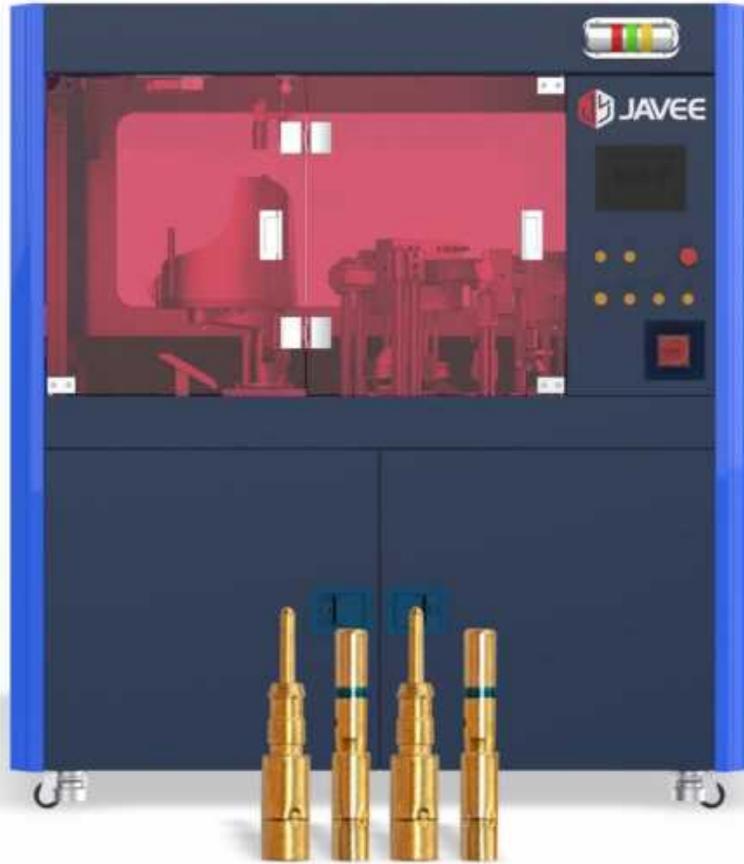


### Automatic Assembly Of Guide Post And Guide Sleeve

The device adopts servo motor displacement module, which can control the speed of multi-point positioning, inserting and pulling force test

## CASE PRESENTATION

# Hyperboloid Rear Sleeve Crimping Machine



- Hyperboloid automatic crimping machine adopts disc type, less fixture, high precision, improve production efficiency, the fixture has its own rotation function, to ensure that the wire can be automatically imported into the slot;
- Crimping using CAM mechanism four point crimping, so that the consistency of crimping better can also be used according to customer requirements rolling riveting crimping take material and turn wire together, improve the accuracy.

Size	1660*1200*1800mm
Capacity	10PCS/Min
Power	1000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Fully Automatic Feeding

Adopt multifunctional automatic flexible feeding to realize the sharing of multiple specifications



### High Precision CAM Mechanism Four - Point Crimping Consistency

It can be produced by pressing and rolling riveting according to customer demand, which is suitable for connector industry

## CASE PRESENTATION



- The device adopts servo motor displacement module, which can control the speed of multi-point positioning and inserting and pulling force test.
- The machine is controlled by servo motor, which can adjust the position automatically.
- Four axis robot combined with flexible feeder clamping can achieve flexible feeding.

Size	1100*700*1900mm
Capacity	12-15PCS
Power	300W
Air Pressure/ Voltage	0.5Mpa/220V
Weight	500Kg



### Automatic Assembly Of Guide Post And Guide Sleeve

Four axis robot combined with flexible feeder clamping can achieve flexible feeding



### Force measurement with weights

Automatically distinguish between good products and defective products

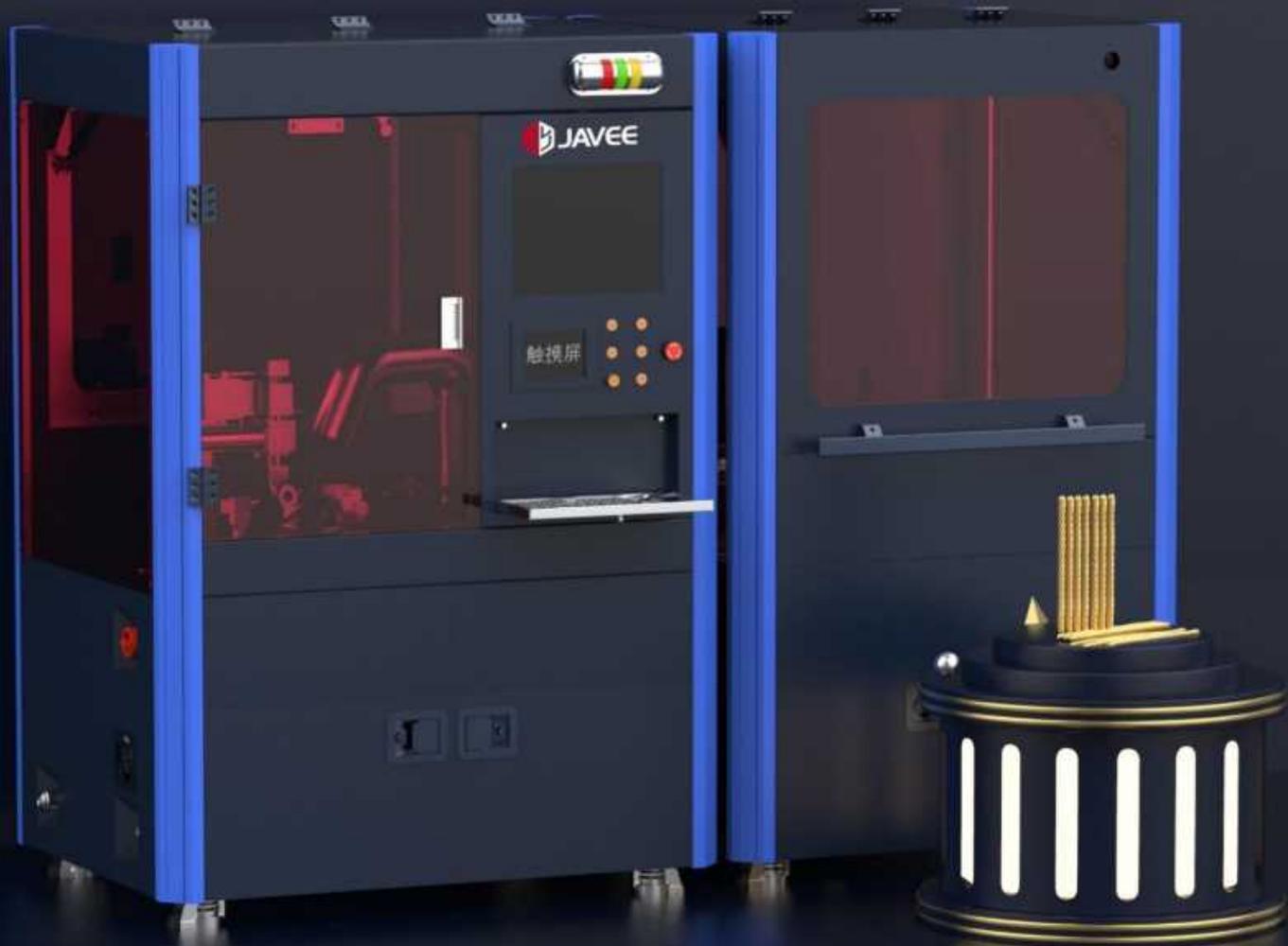


### Automatic Assembly Of Guide Post And Guide Sleeve

The device adopts servo motor displacement module, which can control the speed of multi-point positioning, inserting and pulling force test

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## Twist Pin Automatic Stranding Machine



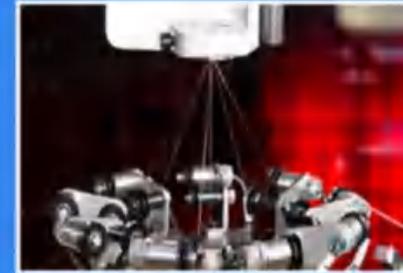
- Automatic twist pin stranding machine, the equipment is mainly used for flexible micro rectangular electrical connector components manufacturing twisted wire production;
- The twisted coil body adopts permanent magnet to control tension, with tension monitoring display, easy to adjust; CCD microscope monitoring can monitor the winding results at any time, convenient debugging; The equipment is equipped with meter recorder, which can accurately measure the output of line making. Servo motor line, with the principle of potentiometer, can automatically adjust the line speed.

Size	1800*2300*2100mm
Capacity	300mm/Min
Power	3000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Automatic Wire Diameter Detection

Laser caliper can monitor and test the wire diameters in real time to ensure that the wire diameters meet the quality requirements



### Tension Detection

The body of the twisted turntable adopts permanent magnet to control the tension, and each head has tension monitoring display



### CCD On-Line Detection

Equipment with CCD microscope monitoring, can monitor the winding results at any time, convenient debugging

## CASE PRESENTATION

# Twist Pin Wire Stress Relief and Alignment Machine



- Automatic alignment machine for twist drill wires, with online stress elimination and tension adjustment, replaces the manual straightening process and meets the straightening requirements of twist drill wires.
- The equipment automatically feeds and retrieves wires, reducing manual intervention and improving production efficiency and consistency; online stress elimination and tension adjustment ensure the straightness of the products and guarantee that the dimensional and shape accuracy after straightening reaches a high level; fiber optic detection is used to check for material shortage, and abnormal situations will trigger automatic alarm and machine shutdown.

Size	1400*800*1800mm
Capacity	1000mm/Min
Power	4600W
Air Pressure/ Voltage	0.5-0.8Mpa/220V 50Hz



### Automatic wire feeding and retrieving

The equipment automatically feeds and retrieves wires, reducing manual intervention and improving production efficiency and consistency.



### High-precision straightening

Online stress elimination and tension adjustment guarantee the straightness of the product and ensure that the dimensional and shape accuracy after straightening reaches a high level.



### Optical fiber detection

Optical fiber detects whether there is a shortage of materials. If there is an anomaly, it will automatically alarm and stop the machine.

## Twist Pin Automatic Cutting and Welding Machine



- The automatic cutting and welding machine will cut the twisted thread of the twist pin stranding machine, and heat and melt the pin through the laser spot welding machine, so that the pin internal connection is firm, no dotted line, no scattered hemisphere head shape;
- The machine is equipped with online stress elimination, which can ensure the straightness of the product. The clamping wire feeding mechanism adopts servo feeding, which is accurate in position. The length of wire feeding can be adjusted digitally, and the welding head of high performance laser machine can be realized. High quality, smooth and beautiful.

Size	2400*1300*1800mm
Capacity	10PCS/Min
Power	3000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### On-Line Stress Relief

The machine is equipped with on-line stress relief to ensure the straightness of the product



### High Precision Welding Machine

The twisted thread is cut, and the pin can be heated and melted by the extreme spot welding machine, so that the pin is firmly connected inside the same, no dotted line, no scattered hemisphere head shape.



### Welding Center Image Observation System

## Twist Pin Automatic Expansion Machine



- Automatic waist drum machine of twist pin: vibration plate adopts high precision piezoelectric base, plate surface is CNC precision carved customized aluminum plate, smooth feeding, high precision;
- The waist drum adopts servo drive precision controllable waist drum mechanism, high control precision, to ensure the yield of the production process;
- The finished product is equipped with CCD visual inspection, which can ensure the shape and size of the drum waist, and realize the automatic distinction between good and bad products.

Size	1300*1300*1800mm
Capacity	15PCS/Min
Power	1000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### High Precision Aluminum Plate feeding

Vibration plate adopts high precision piezoelectric base, plate surface is CNC precision carved customized aluminum plate, smooth feeding, high precision



### Servo Motor Drum Waist The Drum Waist Parameters Are Adjustable

The waist is servo driven with precision controllable waist mechanism, high control precision, to ensure the yield of the production process



### CCD Size Detection

The finished product is equipped with CCD visual inspection, which can ensure the shape and size of the drum waist machine, and realize the automatic distinction between good and bad products

## CASE PRESENTATION

# Twist Pin Automatic Rear Sleeve Crimping Machine



- Twist pin crimping machine equipment, the servo motor drive screw, product handling using simplex single fixture, can effectively improve the assembly accuracy and the consistency of crimping effect, so as to improve the qualified rate of products;
- Finished servo motor rotation, multi-angle CCD detection, to ensure the accurate differentiation of good and bad products;
- Product grab feeding using servo motor PPU manipulator, grab precision is high, handling speed block.

Size	1300*1300*1800mm
Capacity	10-12PCS/Min
Power	2000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



**CAM Crimping Mechanism  
Ensure The Consistency  
Of Crimping**



**CCD Visual Detection**

Multi-angle CCD detection, accurately distinguish good and bad products



**PPU Manipulator**

Feeding using servo motor PPU manipulator, grab high precision, fast handling speed

# CASE PRESENTATION

## Twist Pin Automatic Alignment Machine



- Automatic positioning machine of twist pin, servo variable rotation, CCD online detection, software analysis, positioning, distinguish good and bad products, automatic feeding, discharging function;
- Because the long pin incoming material will bend, there is a pin adjusting mechanism when taking material.

Size	1300*1300*1800mm
Capacity	8-10PCS/Min
Power	1000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Automatic Identification For Correction

Automatic identification of product deviation value, self-developed software drive alignment mechanism



### CCD On-Line Measurement Of Product Concentricity

CCD online detection, software analysis, calibration, distinguish good and bad products, automatic discharge



### Feeding And pin Adjusting Mechanism

## Twisted Pin Automatic Wire Crimping Machine



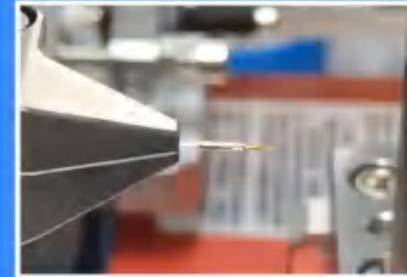
- CCD multi-angle detection and software analysis can effectively improve the assembly accuracy and crimping effect, and automatically sort out good products and defective ones.
- The equipment adopts a servo motor displacement module, which can achieve precise positioning and guarantee the consistency of crimping.
- Precise wire cutting and wire outlet, with servo motor displacement grasping and encoder counting.

Size	2300*1000*1900mm
Capacity	8-10PCS/Min
Power	2000W
Air Pressure/ Voltage	0.5-0.8Mpa/220V AC



### CCD multi-angle detection

CCD multi-angle detection and software analysis effectively improve the assembly accuracy and crimping effect, and automatically sort out good products and defective products.



### Four-point cam crimping, precise displacement

The equipment adopts a servo motor displacement module, which can achieve precise positioning and ensure the consistency of crimping.



### Automatic wire cutting and wire outlet

Precise wire cutting and wire outlet, servo motor displacement grasping and encoder counting



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## CASE PRESENTATION

# Brush Pin Automatic Assembly Machine



- This machine adopts vibration plate part automatic feeding, compatible with 2 kinds of terminal tail seat, tail seat automatic feeding, 0.2mm brush wire precision bevel cutting, and according to 2 standard pattern arrangement.
- Automatic assembly, riveting, fully automatic equipment



Size	1100*970*1900mm
Capacity	6PCS/Min
Power	2000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Positioning pins on the aerial rotating platform

High-precision positioning ensures the accuracy of the pin position and meets the needs of precise operations.



### Strong Compatibility

Compatible with 2 terminal tailstock, tailstock automatic feeding, 0.2mm brush wire precision bevel cutting, and 2 standard pattern arrangement. Automatic assembly, riveting, high degree of automation



### Crimping of cam mechanism

High-precision crimping, precisely controlling the pressure and position accuracy to ensure the crimping quality of brush pins.

## Automatic Jack Closing Machine



- The machine adopts vibration plate automatic feeding, product automatic closing, closing drive mechanism can realize single-side independent control. The equipment has functions of abnormal alarm and information prompt guidance, incoming material detection direction and lack of material prompt, preset number production, counting and so on.
- Meet the jack automatic feeding, product slotting direction alignment, precise clamping type closure, good and bad product output, manual adjustment of the size of the closing force, closing position and speed.

Size	1320*1260*1950mm
Capacity	20-25PCS/Min
Power	1500W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Servo Control

The closing is controlled by servo motor, which can realize the digital adjustment of the position and depth of the closing



### High Precision Sensor

The machine uses high-precision sensors to detect the direction of the product



### Automatic Direction Selection

## CASE PRESENTATION

# Jack Socket Automatic Crimping Machine



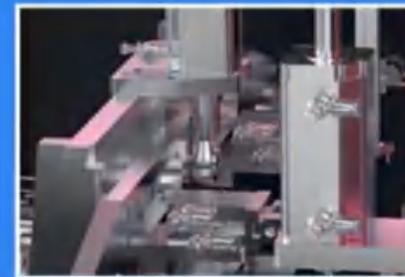
- This machine adopts vibration plate part automatic feeding, compatible with 2 kinds of terminal tail seat, tail seat automatic feeding, 0.2mm brush wire precision bevel cutting, and according to 2 standard pattern arrangement.
- Automatic assembly, riveting, fully automatic equipment

Size	1100*970*1900mm
Capacity	6PCS/Min
Power	2000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



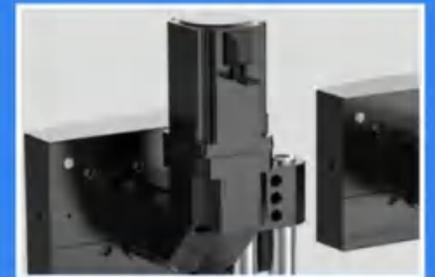
### Automatic Plate feeding

Automatic identification of product deviation value, self-developed software drive alignment mechanism



### Strong Compatibility

Compatible with 2 terminal tailstock, tailstock automatic feeding, 0.2mm brush wire precision bevel cutting, and 2 standard pattern arrangement. Automatic assembly, riveting, high degree of automation



### Automatic Wire Cutting Out

Precise cutting line out, servo motor displacement grab encoder count

## CASE PRESENTATION

# Jack Extraction Force Automatic Testing Machine



- This machine adopts vibration plate part automatic feeding, compatible with 2 kinds of terminal tail seat, tail seat automatic feeding, 0.2mm brush wire precision bevel cutting, and according to 2 standard pattern arrangement.
- Automatic assembly, riveting, fully automatic equipment

Size	1100*970*1900mm
Capacity	6PCS/Min
Power	2000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### Automatic Plate feeding

Automatic identification of product deviation value, self-developed software drive alignment mechanism



### Strong Compatibility

Compatible with 2 terminal tailstock, tailstock automatic feeding, 0.2mm brush wire precision bevel cutting, and 2 standard pattern arrangement. Automatic assembly, riveting, high degree of automation



### Automatic Wire Cutting Out

Precise cutting line out, servo motor displacement grab encoder count

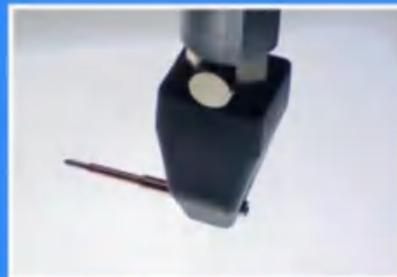
## CASE PRESENTATION

# Contact Automatic Color machine



- This equipment adopts the automatic feeding method to realize the functions such as automatic feeding of product parts by a four-axis robot, coloring, and output of finished products to pallets.
- The four-axis robot with vision is used for automatic feeding, and the machine stops automatically when the material is full; the coloring position is accurate, the color is uniform, and the adhesion and durability of the color ring are good; CCD monitors the appearance, size and shape of the product, and analyzes and detects the data in real time; the intelligent control flexibly sets the coloring parameters to meet various production needs.

Size	1100*970*1900mm
Capacity	20CS/Min
Power	4600W
Air Pressure/ Voltage	0.5-0.8Mpa/220V 50Hz



### Flexible feeding by four-axis robot

The four-axis robot with vision is used for automatic feeding and the machine stops automatically when the material is full.



### Precise coloring

The coloring position is accurate, the color is uniform, and the adhesion and durability of the color ring are good.



### CCD monitoring

CCD monitors the appearance, size and shape of the products, analyzes the monitoring data in real time, and automatically alarms and stops the machine in case of abnormalities.

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INSULATION COMPONENTS SERIES  
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## CASE PRESENTATION

# Rectangle Connector Automatic Insertion Machine



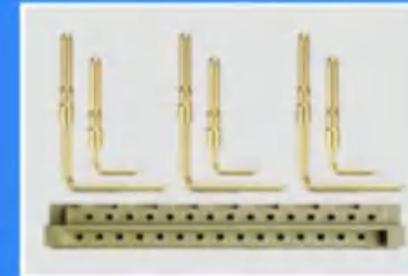
- Automatic pin insertion machine, the equipment through the PLC program automatic control, complete automatic feeding, automatic pin insertion, automatic forming.
- High degree of automation: wide application rate can be used for: policy, flat pin, round pin, and other shaped pin insertion, can be used for: single row of pin insertion, double row of pin insertion, multi-row of pin insertion, bending and other row of pin insertion machine non-standard automatic assembly equipment customization.

Size	1700*1300*1800mm
Capacity	34Pin/Min
Power	900W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



### PPU Manipulator

Self-developed standard module has high precision, can be adjusted quickly, and can be reused, easy to assemble



### Multiple Models Of The Same Type Are Shared



### Abnormal Alarm

Lack of materials, motion mechanism disorder, parts lag abnormal case can stop alarm, with counting statistics, data processing, storage, output and other functions

## Rectangle Connector Automatic Inserting and Bending Machine



- Precision mold is made of Japanese SKD fine grinding, SMC pneumatic components, Mitsubishi PLC, strong stability, fast speed and other advantages;
- Clip type insulation parts, automatic feeding of gold pins, automatic PIN insertion, bending 90° function, the machine has the missing PIN detection and compensation function, three row/two row/span PIN assembly /PIN distance /PIN number/digit control function. Digital control of bending Angle, gold pin rebound stress elimination delay digital control function.

Size	1000*1300*1800mm
Capacity	20PCS/Min
Power	1000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



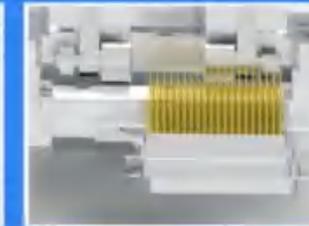
### Touch Screen Man-Machine Interface

Self-developed standard module has high precision, can be adjusted quickly, and can be reused, easy to assemble



### Servo Control Bending Angle And Bending Position

Servo motor control precision is high, response speed is fast, digital controllable.



### Adjust Bending Angle Arbitrarily

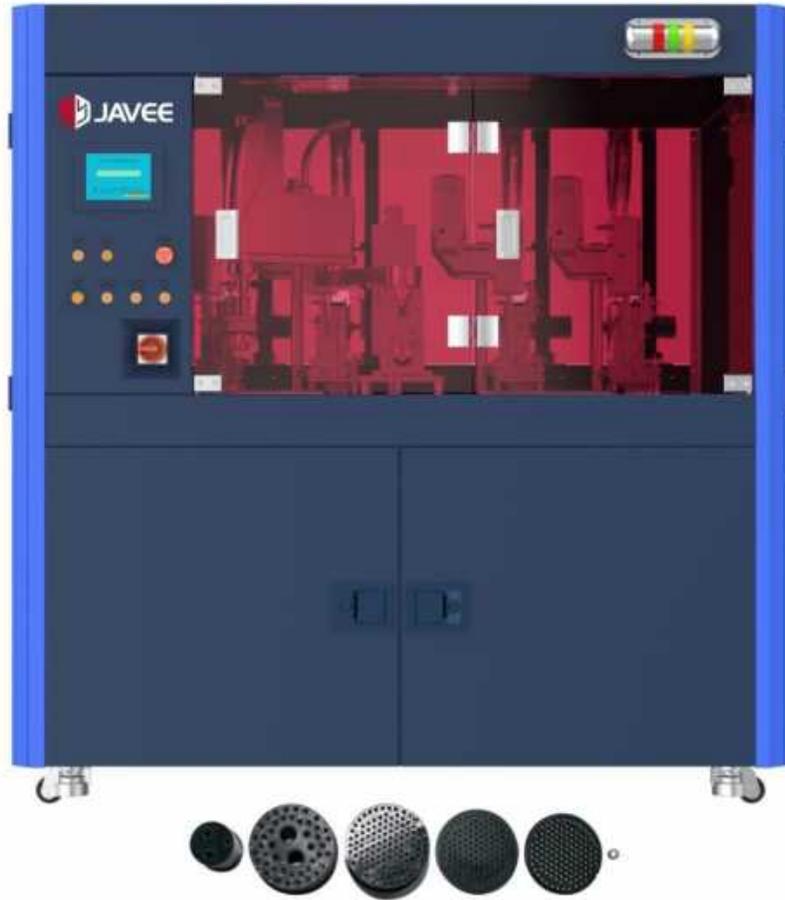
The bending precision is high and the Angle can be adjusted arbitrarily to ensure the springback parameter.



### Easy To Operate

Warehouse feeding automatic CNC bending forming, bending process software optimization to achieve online stress elimination, avoid bending rebound, effectively solve the warping of the insulator, can realize the round pin, flat pin and other different contact bending forming.

## Hold Clip Automatic Assembly Machine



- Connector non-standard mechanical automation production equipment, is a special for the production of connector enterprises tailored to a mechanical automation equipment, connector class non-standard mechanical automation production equipment, with automatic feeding, automatic assembly, CCD automatic detection, for customers to effectively improve production efficiency, improve product quality, reduce labor costs, can be customized according to the different needs of customers.

Size	1760*2000*1800mm
Capacity	15PCS/Min
Power	2500W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



**Four-Axis Robot**

Four axis robot clamping can achieve flexible feeding, flexible feeding and blanking



**PPU Manipulator**

After the self-developed standard module is installed, it can separately adjust the X-axis travel of the position of grab and put, and it has high precision, can be adjusted quickly, and can be reused, which is convenient for assembly



**Insulation Tray**

Insulating parts tray for material, material tray can be quickly disassembled and replaced, a number of insulation parts to achieve universal



**Easy To Operate**

CCD detection visual positioning guidance and leakage detection

## Jack Insulation Component Automatic Assembly Machine



- The machine adopts automatic flexible feeding, identification and detection by CCD camera, can achieve accurate clamping; Automatic positioning of insulation components before jacks, and check that the components are correct. The jack can accurately locate the product hole position under the guidance of CCD vision, and load the jack insulation components in response to the positioning of servo modules at different product hole positions.

Size	1730*1570*1950mm
Capacity	15-20PCS/Min
Power	4000W
Air Pressure/ Voltage	0.5-0.7Mpa/220V AC



### Fully Automatic Flexible Feeding

With the aid of automatic flexible feeding system and CCD camera, the external dimension is detected, and the servo system accurately locates the fixture according to the size of the insulation parts.



### Jack Detection

Detect whether the closing end is closed, whether it exceeds the deformation set quantity, exceed the value, automatically put into the unqualified material box.



### CCD Visual Detection

Jack under the guidance of visual CCD, accurate positioning of product hole position, and achieve efficient and stable assembly



### Locking Mouth Clip

When transporting products and placing plates, the clamps are retracted to ensure concentric products and more accurate materials

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OPTICAL FIBER SERIES OF  
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## CASE PRESENTATION

# LC Optical Fiber Connector Automatic Assembly Machine



- The plastic tube has the function of heating and softening, which is convenient for reaming and assembling onto the ceramic core. The machine has the function of product pressure detection. All machine accessories adopt FESTO/SMC.
- Original pneumatic components, Taiwan HIWIN precision slide rails, and the precision module is precisely ground from S136. The Siemens PLC / touch screen control interface, and other electronic accessories all adopt German brand products.

Size	1600*1600*1900mm
Capacity	36-40PCS/Min
Power	2000W
Air Pressure/ Voltage	0.4-0.6Mpa/220V AC



Automatic welding



Main body assembly



Spring assembly



Plastic tube assembly

## LC Automatic Threading Equipment



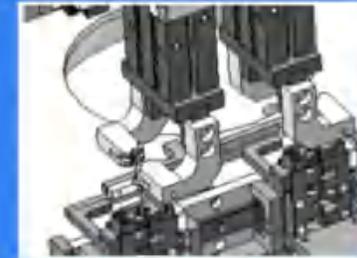
- The placement height of the fiber optic for manual feeding is different. It has the functions of automatic wire cutting and waste collection. Special scissors are used, which have a long service life. The fiber optic wire ends at both ends are automatically reverse-bound simultaneously when the parts are installed to prevent the parts from falling off for the next process.



Size	2400*1950*2000mm
Capacity	10-15pcs/min
Power	3500W
Air Pressure/ Voltage	0.4-0.6Mpa/380V AC



Automatic reverse binding of wire ends to prevent them from falling off



Automatic peeling and opening



Automatic wire cutting function

# SC Fiber Connector Automatic Assembly Machine



- The SC optical fiber connector automated flexible production line is an automated equipment for producing SC optical fiber heads, mainly used for the automated assembly and production of SC optical fiber connectors. The SC optical fiber connector automated flexible production line adopts a flexible design and can be multi-purpose with one machine. One device can produce various specifications and models of optical fiber connectors.



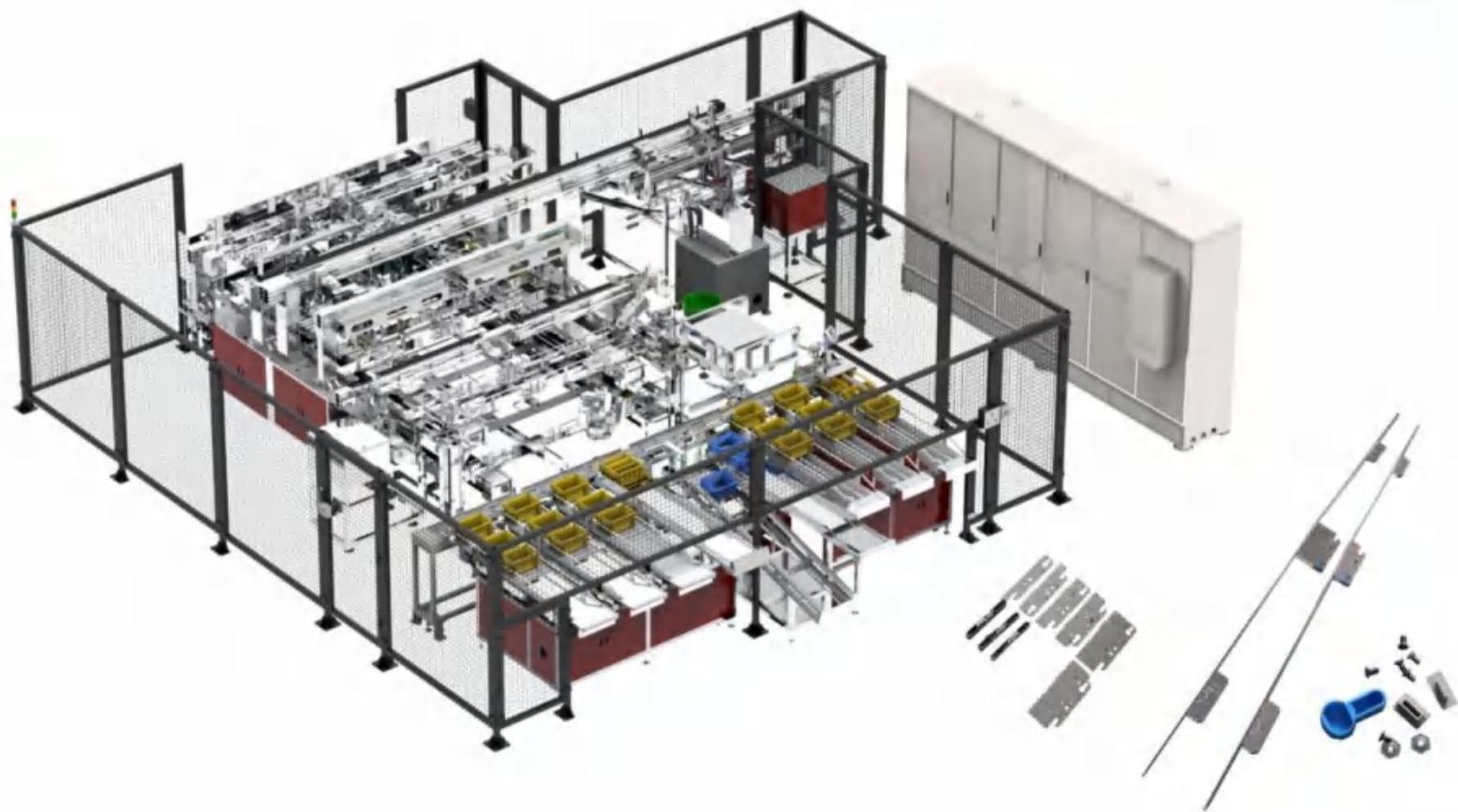
Size	1600*700*2000mm
Capacity	18PCS/Min



## Building Door And Window Hardware Accessories Field

门窗五金配件领域设备现有门执手组装机、门把手自动组装机、三翼合页自动组装机、两翼合页自动组装机、内嵌锁杆自动组装机产品、门窗锁盒柔性生产线、门窗塑料件载体自动组装机、上合页自动攻牙机、铰链自动铆压组装机等各种全自动化的生产设备

The existing door handle assembly machine, door handle automatic assembly machine, three wing hinge automatic assembly machine, two wing hinge automatic assembly machine, automatic assembly and installation products of incline locking rod, flexible production line of lock box for doors and Windows, automatic assembly and installation of plastic carrier for doors and Windows, automatic tapping machine for upper hinge, hinge chain automatic riveting press assembly machine and other fully automated production equipment



- The machine adopts robot intelligent picking and placing lock box; Vibration plate feeding hex nuts, plastic fasteners; Artificial placement of long strips and sliding strips; Automatic screw locking, with torque feedback; Automatic detection of product functions; Code and label qualified products and install protective locks. All product assembly, testing position, fixture switch are parameterized design, can realize thousands of products shared, high degree of automation.

Size	7500*7600*2000mm
Capacity	3-4PCS/Min
Power	10KW
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V 50Hz

# Hinge Automatic Drilling And Tapping Machine



- Automatic drilling tapping machine pneumatic components using FESTO/SMC original, Taiwan silver precision slide, precision module, the use of imported S136 fine grinding parts, Mitsubishi PLC/ touch screen control interface other electronic accessories are made of German brand products. Vibrating plate automatic feeding, direct vibration feeding, manipulator feeding, automatic drilling, tapping, twisting hole discharging, with transparent acrylic protective cover interface beautiful, safety guarantee.

Size	1200*2000*1850mm
Capacity	10-12PCS/Min
Power	3000W
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V 50Hz

## Hinge Automatic Drilling And Tapping Machine



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Size	1200*2000*1850mm
Capacity	10-12PCS/Min
Power	3000W
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V 50Hz

## Two-Wing Hinge Automatic Assembly Machine



- The machine adopts automatic feeding of feeder, automatic loading of vibrating plate, automatic placement of various parts, automatic assembly, automatic crimping, through the transmission jig transmission, assembly, clamping products, to achieve full automation of assembly, and a number of products universal. All parts are automatically fed, partly through manual feeding, partly through vibration plate, automatic placement of products to jig, automatic positioning, automatic direction selection, automatic pressing, automatic clamping of finished products and a series of actions are completely automatic.

Size	1200*3000*1850mm
Capacity	20-25PCS/Min
Weight	1000KG
Air Pressure/ Voltage	0.5-0.8Mpa/220V AC 50Hz

## Three-Wing Hinge Automatic Assembly Machine



- The machine adopts automatic feeding of feeder, automatic loading of vibrating plate, automatic placement of various parts, automatic assembly, automatic crimping, through the transmission jig transmission, assembly, clamping products, to achieve full automation of assembly, and a number of products universal. All parts are automatically fed, partly through manual feeding, partly through vibration plate, automatic placement of products to jig, automatic positioning, automatic direction selection, automatic pressing, automatic clamping of finished products and a series of actions are completely automatic.

Size	1200*3000*1850mm
Capacity	20-25PCS/Min
Weight	1000KG
Air Pressure/ Voltage	0.5-0.8Mpa/220V AC 50Hz

# Automatic Assembly Machine for Plastic Parts of Doors and Windows



- The disc-type workstation structure is adopted, which has a compact layout and occupies a small floor space. This structure has high stability, load-bearing capacity and precision control ability.
- High-precision quantitative oil dispensing consists of a metering pump, nozzles and a control system. The control system monitors and adjusts the entire process to ensure the accurate quantity of lubricating oil sprayed each time.
- Full-automatic precise threaded dispensing evenly coats the glue on the threaded connection parts by controlling the amount of glue applied, speed and precision. Thus, it provides better anti-loosening effect and fastening force.

Size	5800*3900*1850mm
Capacity	15-18PCS/Min
Power	8000W
Air Pressure/ Voltage	0.5-0.8Mpa/220V AC



## Automatic Assembly Machine for Plastic Parts of Doors and Windows



- This machine is suitable for automatic assembly of plastic parts of doors and Windows, accessories using vibration plate automatic feeding, manipulator automatic clamping loading, automatic assembly of the main body, gear, oblique axis and other accessories, automatic detection, distinguish bad, manipulator automatic feeding.

Size	5770*1865*2000mm
Capacity	12-14PCS/Min
Power	1000W
Air Pressure	0.4-0.7Mpa

## Door and Window Handle Automatic ssembly Machine



Suitable for building door and window fittings assembly:

- 1, machine accessories are made of Adeker /SMC original pneumatic components, precision module is made of S136 fine grinding, Taiwan silver precision slide, Mitsubishi PLC/ Willon touch screen, other electronic accessories are made of German brand products.
- 2, the main product of the machine (handle, base) through the assembly line into the chain fixture, other products (gear, rack, washer, waveform washer, spring, stop, cross groove countersunk head screw) are fed by the vibration plate, to achieve automatic direction selection, assembly, dispensing, oil, automatic finished products and other functions.
- 3, the equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage Material prompt function, preset number production, counting function, etc.

Size	7500*3000*1800mm
Capacity	18-20PCS/Min
Power	3500W
Air Pressure/ Voltage	0.6Mpa/380V AC 50Hz

# Motor Gear Tooth Box Field

电机齿轮牙箱领域现有扫地机器人侧刷自动组装机、扫地机器人轮组自动组装机、扫地机器人主刷自动组装机、麦克纳姆轮自动组装机、马达齿轮箱自动组装机等生产设备

In the field of motor gear tooth box, there are existing production equipment such as automatic assembling machine for side brush of sweeping robot, automatic assembling machine for wheel assembly of sweeping robot, automatic assembling machine for main brush of sweeping robot, automatic assembling machine for McNamham wheel and automatic assembling machine for motor gear box



# Glue Brush Automatic Assembly Machine



- This equipment is suitable for the fully automatic assembly of sweeping robot accessories. It adopts the feeding system of glue brush fixtures and vibrating disks. The machine can complete the processes of automatically assembling core shafts, sponges, rubber sheets, end covers, copper sleeves, top covers, and detection. Through the transmission of fixtures for conveying, assembling, and gripping products, it realizes the functions of fully automatic feeding and assembling as well as finished product discharging.
- The equipment has functions such as abnormal alarm and information prompt guidance, incoming material detection direction and shortage prompt, preset number production, counting function, historical alarm record function, etc.
- CCD detects abnormal errors and automatically corrects and adjusts to improve the qualified rate of finished products. Detailed records of the data during assembly and detection are made and can be analyzed to optimize the production process and quality control. It can adapt to the assembly requirements of various different specifications and models of glue brushes and has strong versatility.

Size	12500*7000*2000MM
Capacity	16-18pcs/min
Power	10KW
Air Pressure/ Voltage	0.5~0.6Mpa/220V AC

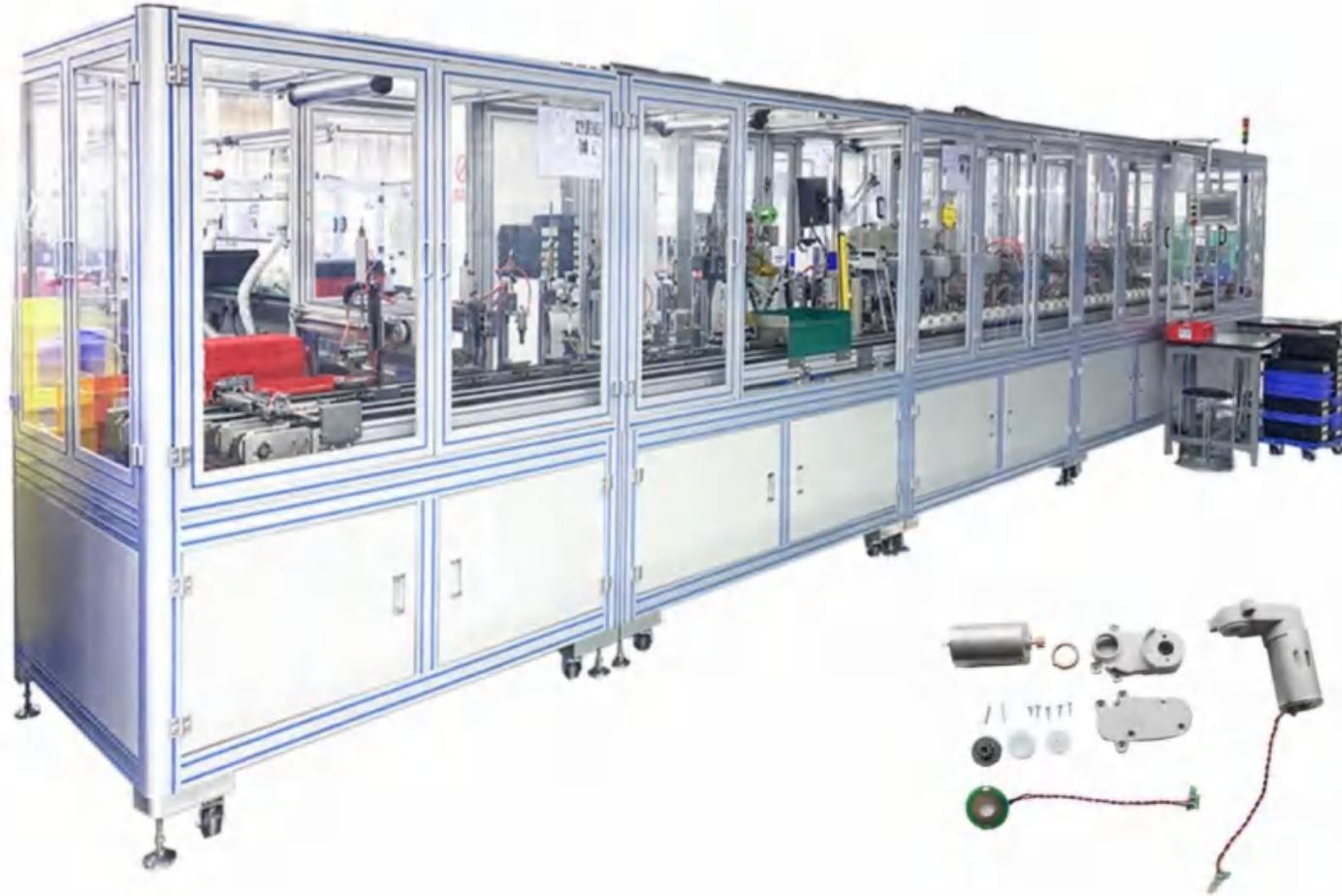
## Sweeping Robot Side Brush Automatic Assembly Machine



- This machine adopts manual loading motor and vibration plate automatic feeding system, the machine can complete the automatic assembly of bottom shell, shaft, gear, automatic screw locking, oil, detection and other processes, through the transmission fixture transmission, assembly, clamping products, to achieve automatic feeding assembly and finished product unloading function;
- The equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage prompt function, preset number production, counting function, historical alarm record function, etc.

Size	10000*3100*2000mm
Capacity	8-12PCS/Min
Power	8000W
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V AC 50Hz

## Sweeping Machine Master Brush Automatic Assembly Machine



- This machine adopts manual loading motor and vibration plate automatic feeding system, the machine can complete the automatic assembly of bottom shell, shaft, gear, automatic screw locking, oil, detection and other processes, through the transmission fixture transmission, assembly, clamping products, to achieve automatic feeding assembly and finished product unloading function;
- The equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage prompt function, preset number production, counting function, historical alarm record function, etc.

Size	10000*3100*2000mm
Capacity	8-12PCS/Min
Power	8000W
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V AC 50Hz



- This machine adopts manual loading motor and vibration plate automatic feeding system, the machine can complete the automatic assembly of bottom shell, shaft, gear, automatic screw locking, oil, detection and other processes, through the transmission fixture transmission, assembly, clamping products, to achieve automatic feeding assembly and finished product unloading function;
- The equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage prompt function, preset number production, counting function, historical alarm record function, etc.

Size	9000*3800*2000mm
Capacity	8-12PCS/Min
Power	10KW
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V AC 50Hz

## 3C Electronic Field

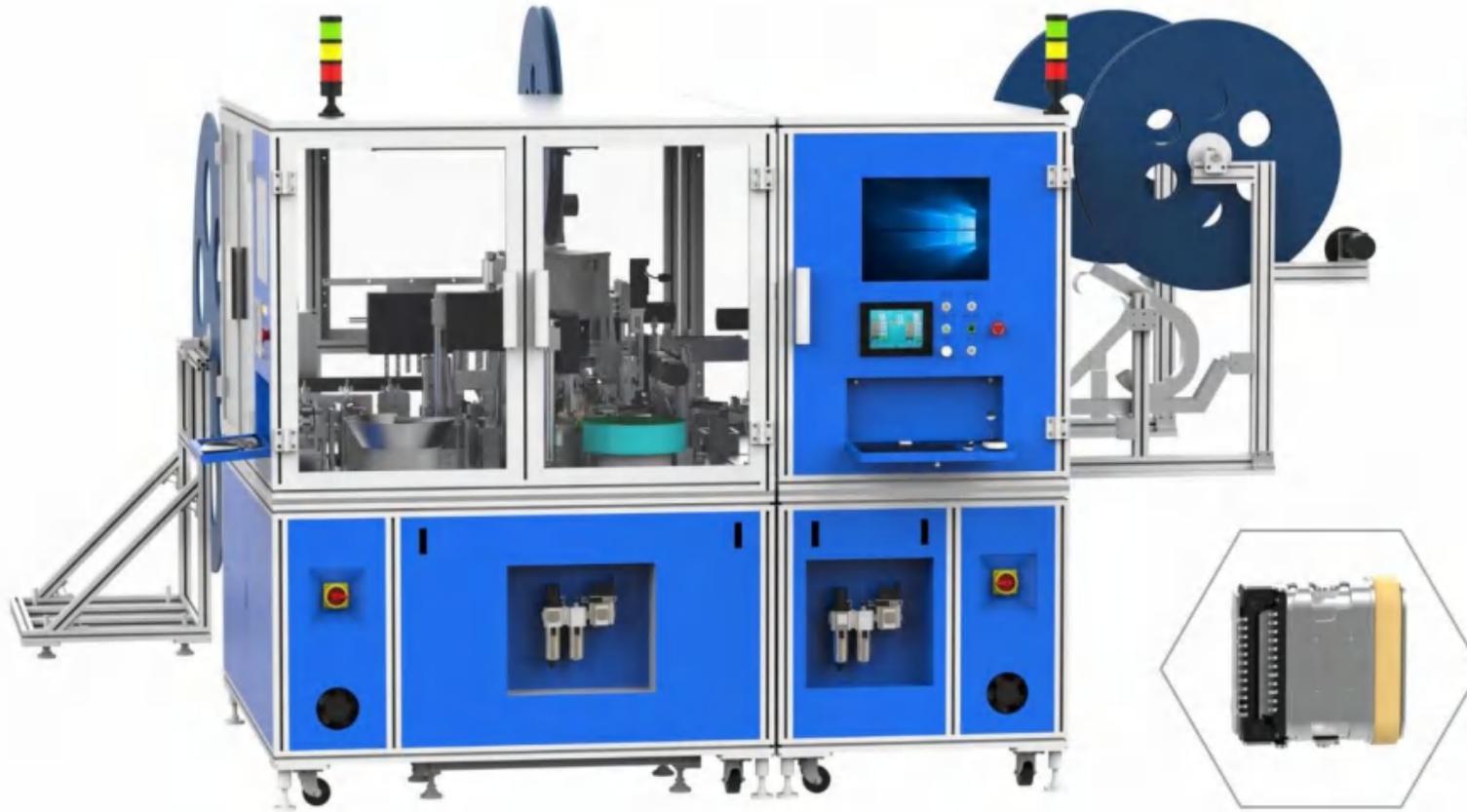
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3C电子系列领域设备现有SD-CARD自动组装机、  
D-SUB全自动生产线、Type-C自动组装机等各种  
全自动化的生产设备

3C electronic series field equipment existing SD-CARD  
automatic assembly machine, D-sub automatic production  
line, Type-C automatic assembly machine and other fully  
automated production equipment



# Type-C Automatic Assembly Machine



- Type C automatic assembly machine is operated by human-computer interactive interface, products by vibration plate automatic feeding, non-standard structure for assembly, distinguish good and bad products, PPU manipulator take material and other processes, will complete product assembly and automatic packaging of finished products fully automated production equipment.



- The equipment adopts linear plug end and disc assembly seamless docking, vibration plate automatic feeding, optical fiber detection automatically identifies and distinguishes incoming material positive and negative direction, servo module taking material displacement positioning precision, PPU manipulator carries CCD image system online detection products, distinguish good and bad products.



- The equipment adopts vibration plate automatic feeding, CCD visual system automatic detection function, detection of product alignment and product size, automatic removal of static servo plate loading. Equipment assembly production efficiency is high, stable performance, greatly improve production efficiency, greatly reduce product quality problems.

# Toy Field

玩具系列领域设备现有各种塑胶玩具自动组  
装机、焊接机等全自动化的生产设备

There are all kinds of plastic toys automatic  
assembly machine, welding machine and other  
fully automatic production equipment





- This machine accessories using SMC/ Adeke original pneumatic components, Taiwan silver precision slide, precision module, using imported S136 fine grinding parts, Mitsubishi PLC/ touch screen control interface other electronic accessories are made of German brand products.
- This machine adopts vibration plate automatic feeding, direct vibration feeding, manipulator feeding, automatic detection, assembly welding, discharge and other processes, with a protective cover beautiful and safe.
- The equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage prompt function, preset number production, counting function, historical alarm record function, etc.

Size	1280*1160*886mm
Capacity	45-50PCS/Min
Weight	500KG
Air Pressure/ Voltage	0.5-0.7Mpa/220-380V AC 50Hz

# Humanoid Toy Automatic Assembly Ultrasonic Welding Machine



- This toy machine adopts the automatic feeding method of vibrating disks to realize the functions of automatic feeding, assembly, ultrasonic welding and finished product output of product parts. The vibrating disk is sprayed with PU, which can effectively control noise and store a certain number of products to avoid frequent feeding. The linear material channel and vibrating disk have the function of stopping the machine when fully filled. After feeding at each workstation of the equipment, there is a fiber optic detection function to check whether there is material.

Size	2800*1800*1900mm
Capacity	15-20pcs/min
Power	5.5KW
Air Pressure/ Voltage	0.5-0.8MPa 220V AC

## CASE PRESENTATION



## Toy Automatic Assembly Machine

- This machine adopts vibration plate automatic feeding, direct vibration feeding, manipulator feeding, automatic detection, assembly welding, discharge and other processes, with a protective cover beautiful and safe. The equipment has abnormal alarm and information prompt guide function, incoming material detection direction and shortage prompt function, preset number production, counting function, historical alarm record function, etc.



Size	2800*1800*1900mm
Capacity	15-20PCS/Min
Power	5500W
Air Pressure/ Voltage	0.5-0.8Mpa/220V AC

# Toy Automatic Assembly Machine



- This equipment is suitable for the automatic assembly of toys. It adopts the automatic feeding method to realize the functions of automatic feeding, assembly, ultrasonic welding, and finished product output of the products. It is equipped with a protection device, which is beautiful and safe.
- The equipment has functions such as abnormal alarm and information prompt guidance, incoming material detection direction and shortage prompt, preset number production, counting function, historical alarm record function, etc.
- The assembly procedures and parameters can be flexibly adjusted according to the design requirements of different toys to meet personalized production needs; precise positioning ensures that each component is accurately installed in the designated position during assembly; it is compatible with various common toy manufacturing materials such as plastic and metal.

Size	1700*1700*2000mm
Capacity	14-16pcs/min
Power	5000W
Air Pressure/ Voltage	0.5~0.6Mpa/220V AC

开关插头插座系列

—  
**Plug And Socket**





- This machine adopts PLC programmable control system, convenient function adjustment and technology upgrade
- Using real touch screen control, man-machine interface beautiful, easy to operate
- Standard components are foreign high-end brands  
Adopts chain transmission structure to save space
- Transparent acrylic and aluminum profiles are used to cover the whole machine for easy operation and maintenance
- Equipment using intelligent production without manual long operation, saving time, more reliable work

Size	3000*1200*2000mm
Capacity	35-40PCS/Min
Weight	1000KG
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V AC 50Hz

## CASE PRESENTATION

## Automatic French Plug Production Line



Size	1200*700*2000mm
Capacity	0-35PCS/Min



- This machine adopts PLC programmable control system, convenient function adjustment and technology upgrade
- Using real touch screen control, man-machine interface beautiful, easy to operate
- Standard components are foreign high-end brands  
Adopts chain transmission structure to save space
- Transparent acrylic and aluminum profiles are used to cover the whole machine for easy operation and maintenance
- Equipment using intelligent production without manual long operation, saving time, more reliable work



Size	3000*1200*2000mm
Capacity	35-40PCS/Min
Weight	1000KG
Air Pressure/ Voltage	0.4-0.6Mpa/220-380V AC 50Hz

# 标准模块 系列领域

There are various kinds of PPU CAM type translation manipulator with different stroke, intelligent storage bin, flexible feeder intelligent feeding system, flexible vibration plate series and other non-standard automatic production standard modules



# Intelligent Storage Bin

Full-  
automatic  
feeding

Intelligent  
induction

Worry-free  
material  
supply

Suitable for electronic/bearing/standard parts/hardware/toys/stationery/daily necessities and other industries, to solve the problem of frequent manual feeding time-consuming and laborious, belt transmission is stable, the product is not easy to scratch.



## Strong Maneuverability

Independent touch screen, PLC, with stepping motor control bin feeding, feeding speed, time can be adjusted at will



## Intelligent Induction

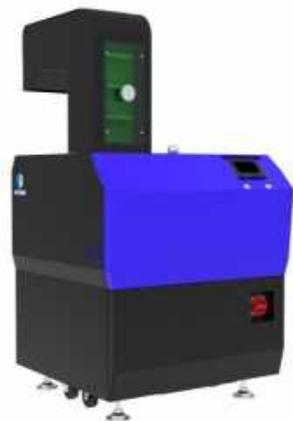
The discharge port is equipped with photoelectric sensor, which can detect whether there is material on the feeder such as vibration plate, so as to replenish the material in time



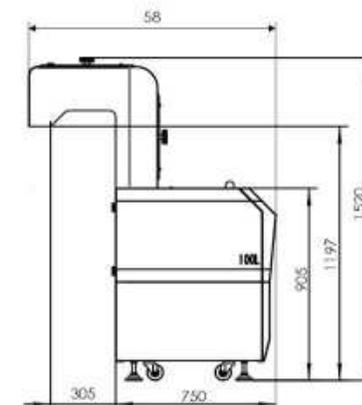
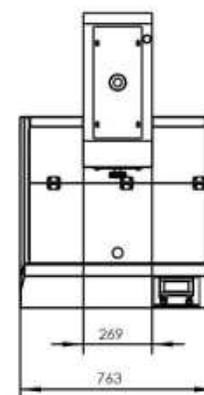
## Missing Material Reminder

The material storage hopper is equipped with vibration motor and photoelectric sensor vibration motor vibration, to ensure that the material can fill into the bottom belt, can detect whether there is material on the feeder such as the vibration plate; the lack of material indicator light up to remind workers to add materials in time

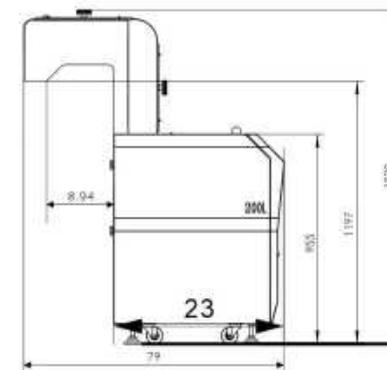
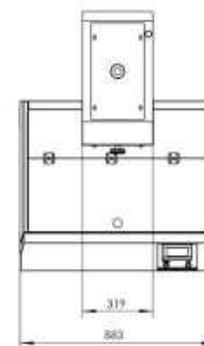
## Intelligent Storage Bin Series



Project	Intelligent Storage Bin
Model	JY-100L
Applicable Product	Plastics、Metals
Applicable Product Size	Length<220mm Width<70mm High>3mm
Storage Capacity	100L
Rated Power	240W
Size	1158mm*763mm*1520mm
Discharge Port Size	269mm*103mm*1197mm



Project	Intelligent Storage Bin
Model	JY-200L
Applicable Product	Plastics、Metals
Applicable Product Size	Length<220mm Width<70mm High>3mm
Storage Capacity	200L
Rated Power	240W
Size	1178mm*883mm*1520mm
Discharge Port Size	319mm*103mm*1197mm



# PPU

## CAM Translation Manipulator

Efficient · Smooth · Accurate

PPU manipulator is used to automatically transmit, feed and remove small parts in a cramped space. It perfectly solves the problem that manual feeding is time-consuming and laborious and easy to fatigue, resulting in low productivity and can prevent industrial accidents.



● Compact Structure

● Cyclic Time Period

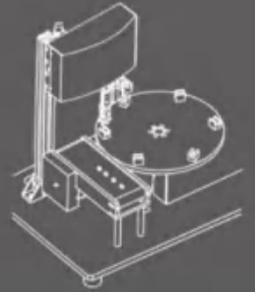
● Low Failure Rate

● Easy Debugging

● Low Maintenance Cost

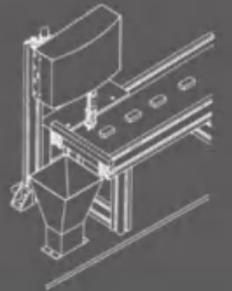
● High Precision

● Stable Operation



与流水生产线  
配合应用

**Use with  
assembly line**

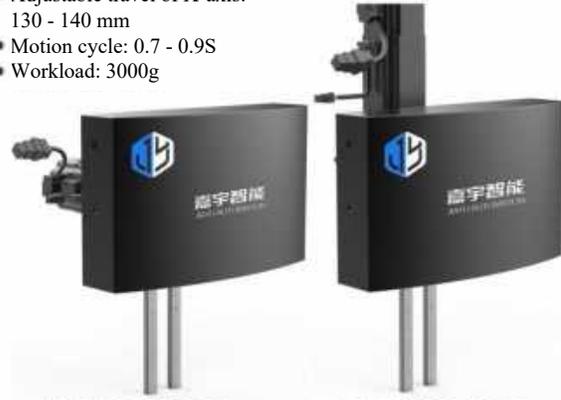


与分割盘配合应用

**Used in conjunction  
With the divider  
turntable**

# PPU Manipulator Series

- Four specifications
- Adjustable travel of X-axis: 130 - 140 mm
- Motion cycle: 0.7 - 0.9S
- Workload: 3000g



PPU-140-SO/SM-R      PPU-140-SO/SM-LR

## PPU-140-SO/SM-R/LR

Project	PPU-140			
	SO-R	SM-R	SO-LR	SM-LR
Time	0.7S-0.9S	0.6S-0.8S	0.7S-0.9S	0.6S-0.8S
Max Workload	3000g	3000g	3000g	3000g
Weight	18kg	20kg	18kg	20kg
Repeat Precision XY Direction	± 0.03	± 0.02	± 0.03	± 0.02
Air Pressure	0.5MPa			
Voltage/Current	24-48V 3A	24-48V 3A	24-48V 3A	24-48V 3A

- Four specifications
- Adjustable travel of X-axis: 150-170mm
- Motion cycle: 0.7 - 0.9S
- Workload: 3000g



PPU-160-SO/SM-R      PPU-160-SO/SM-LR

## PPU-160-SO/SM-R/LR

Project	PPU-160			
	SO-R	SM-R	SO-LR	SM-LR
Time	0.7S-0.9S	0.6S-0.8S	0.7S-0.9S	0.6S-0.8S
Max Workload	3000g	3000g	3000g	3000g
Weight	18kg	20kg	18kg	20kg
Repeat Precision XY Direction	± 0.02	± 0.03	± 0.02	± 0.03
Air Pressure	0.5MPa			
Voltage/Current	24-48V 3A	24-48V 3A	24-48V 3A	24-48V 3A

- Four specifications
- Adjustable travel of X-axis: 210-230mm
- Motion cycle: 0.7 - 9S
- Workload: 3000g



PPU-220-SO/SM-R      PPU-220-SO/SM-LR

## PPU-220-SO/SM-R/LR

Project	PPU-220			
	SO-R	SM-R	SO-LR	SM-LR
Time	0.7S-0.9S	0.6S-0.8S	0.7S-0.9S	0.6S-0.8S
Max Workload	3000g	3000g	3000g	3000g
Weight	18kg	20kg	18kg	20kg
Repeat Precision XY Direction	± 0.03	± 0.02	± 0.03	± 0.02
Air Pressure	0.5MPa			
Voltage/Current	24-48V 3A	24-48V 3A	24-48V 3A	24-48V 3A

# Flexible Vibrating Disk



## Universality

Suitable for 99% of small parts in industrial automation, including special-shaped parts and fine parts easily damaged; Up to 16 motion modes cover all vibration needs applied to visual printing



## Flexible Production, Fast Switching Production Varieties

The feeding system does not need to replace the hardware structure, and the program can switch the production varieties with one key, which caters to the flexible production needs of the current intelligent manufacturing with small batch and multiple varieties



## Fast Vibration Response, Efficient Parts Positioning

Based on the fitting technology of frequency vibration, the vibration response time is a few ms, so about 100-1000ms can complete the vibration dispersion, based on the shape structure of the parts of the personalized plate (disk, slot, hole, drawing), parts can be quickly and accurately positioned, identified and grabbed



## Accurate Positioning

Supporting industrial visual positioning technology, integrated backlight structure (optional), parts on the surface of the vibration plate can be accurately positioned (grab), the tray can be disassembled and washed



## Gentle Vibration Into Parts

No wear to the material, low noise, and no risk of stuck material



## High Reliability, Long Life

Strict manufacturing process and quality control, with durable materials, so that the flexible vibration disk reliability, life greatly increased

# Flexible Vibration Plate Series



## Y-150

Device name	Flexible Vibrating Plate Y-150 (Vertical Placement)	Device name	Flexible Vibrating Plate Y-150 (Vertical Placement)
Size	505mm*340mm*164mm	Size	505mm*340mm*164mm
Air Pressure/Voltage	0.5Mpa/220VAC	Air Pressure/Voltage	0.5Mpa/220VAC
Applicable Product	Various small parts	Applicable Product	Various small parts
Weight	12KG	Weight	12KG

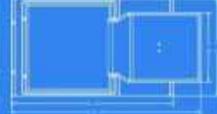


## Y-270

Device name	Flexible Vibrating Plate Y-270	
Size	600mm*370mm*170mm	
Air Pressure/Voltage	0.5Mpa/220VAC	
Applicable Product	Various small parts	
Weight	28KG	



## Y-400

Device name	Flexible Vibrating Plate Y-400	
Size	818mm*420mm*199mm	
Air Pressure/Voltage	0.5Mpa/220VAC	
Applicable Product	Various small parts	
Weight	50KG	

# THANKS!

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