



# High-end intelligent equipment overall solutions

4.0  
INDUSTRY



2008

Benlong Entrepreneurship

80<sup>+</sup>

technical attache

28<sup>+</sup>

Listed company cooperation

20<sup>+</sup>

foreign enterprise

2<sup>+</sup>

Qualifications

30<sup>+</sup>

Business covers countries and regions

1200<sup>+</sup>

Cooperative companies

3<sup>+</sup>

Strategic Partners

2<sup>+</sup>

Research Institutions

265<sup>+</sup>

intellectual property



奔龙自动化  
BENLONG AUTOMATION

001/018

Corporate Culture  
Company Profile  
Benlong Brand Creator  
Our Advantage  
Development History  
Service & Support  
Customised Process  
Solutions

019/078

MCB Miniature Circuit Breaker Automated Assembly and Inspection Flexible Production Line

IOT intelligent miniature circuit breaker automated assembly and testing flexible production line

Leakage Circuit Breaker Automated Assembly and Testing Flexible Production Line

Disconnecting Switch Automated Assembly and Testing Flexible Production Line

Energy Meter External Low Voltage Circuit Breaker Automated Assembly and Testing Flexible Production Line

MCCB Moulded Case Circuit Breaker Automated Assembly and Testing Flexible Production Line

MCCB moulded case metering reclosing circuit breaker automated assembly and testing flexible production line

AC Contactor Automated Assembly and Testing Flexible Production Line

ACB Frame Circuit Breaker Automated Assembly and Testing Flexible Production Line

Dual power automatic transfer switch automatic assembly and testing flexible production line

Surge Protector Automated Assembly and Testing Flexible Production Line

NT50 Circuit Breaker Automated Assembly and Testing Flexible Production Line

RT18 fuse automatic assembly and testing flexible production line

VS1 Vacuum Circuit Breaker Automatic Assembly and Testing Flexible Production Line

Wall Switch Automatic Assembly and Testing Flexible Production Line

Flexible production line for automatic assembly and testing of time control switches

Measuring switch automatic assembly and testing flexible production line

Energy Meter Automated Assembly and Testing Flexible Production Line

Lithium battery automatic assembly and testing flexible production line

Flexible Production Line for Automatic Assembly and Testing of Vacuum Circuit Breaker of Inflatable Cabinet

Photovoltaic DC disconnecting switch automatic assembly and testing flexible production line

Photovoltaic Recloser/DC Circuit Breaker Automated Assembly and Testing Flexible Production Line

Signal Light Automated Assembly and Testing Flexible Production Line

DC Charging Pile Automatic Stamping and Welding Flexible Production Line

DC charging pile automatic assembly and testing flexible production line

AC charging pile automatic assembly and testing flexible production line

DC charging gun automatic assembly and testing flexible production line

Low Voltage Magnetic Switch Automated Assembly and Testing Flexible Production Line

Intelligent control cabinet automatic assembly and testing flexible production line

079/082

Low-voltage electrical laboratory testing equipment

083/086

Welding equipment

087/090

Laser application equipment

091/094

Robot application equipment

095/098

Vision application equipment

099/102

Logistics and Conveying Equipment

103/106

Automated assembly and special equipment

107/112

Automatic Packaging Equipment

113/118

MES Intelligent Manufacturing Production Process Execution System

Intelligent Warehousing

119/134

Fine Packaging

Virtual Factory

About Us

Company Information

Customer group photo


Exhibition site

Our Customers

## CORPORATE CULTURE


 **SPIRITUALITY**  
Practicality Dedication Innovation Exploration

 **MISSION**  
Create a new and efficient automation model

 **VISION**  
Dedicated to being the invisible champion in the field of digital intelligent equipment manufacturing in the high and low voltage electrical industry. Boosting Industry 4.0 with intelligent manufacturing

 **SPIRITUALITY**  
Sincerity in the heart External trust in people Winning the future together

 **QUALITY POLICY**  
Excellence Quality-oriented Leading technology Customer first

 **CORE VALUES**  
Pursuit of excellence, responsibility, pragmatism, innovation and breakthrough

**16<sup>th</sup>**

16 years of sedimentation, 16 years of quality,  
16 years of refinement

**4.0**  
**INDUSTRY**



**003**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment

Actions speak louder than words

Driving digital transformation and upgrading in the manufacturing industry 4.0

**004**



High-end intelligent equipment overall solutions



## QUALIFICATIONS

Benlong Automation

Benlong Automation Technology Co., Ltd. is a national high-tech enterprise with automation system integration technology as its core, focusing on digital intelligent manufacturing equipment. Established in 2008, with a registered capital of 50.88 million yuan, it is located in Wenzhou, one of the "Capital of Electrical Appliances in China". In 2015, it obtained the "National High tech Enterprise" certificate, owned 146 national patents, and 26 software copyrights, It has successively won the "Science and Technology Progress Award of Zhejiang Province", "Science and Technology (Innovation) Enterprise of Yueqing City", "Patent Demonstration Enterprise of Yueqing City", "Contract abiding and Credible" Integrity Enterprise ", " Science and Technology Progress Award of zhejiang Province ", AAA Credit Enterprise and other honors.

Since its establishment, under the leadership of its founder, Mr. Zhao Zongli, Benlong has closely followed national policies and industry development trends, guided by customer needs, and engaged in "industry university research cooperation and overseas training and learning" cooperation with universities. It has a mature research team, forming a complete industrial chain that integrates "independent core technology, key components, core products, and industry customized solutions". Benlon focuses on market segmentation, product capability improvement, innovative research and development. It has a high market share in the market segment and a prominent position in the industry. It is one of the providers with comprehensive services in the intelligent product line of low-voltage electrical appliances.

Making innovations with ingenuity and intelligence, Benlong has integrated robotics, sensors, artificial intelligence, cloud computing, Internet of Things, MES technology into low-voltage appliances, communications, electronics and other industries by using new technologies and new products, providing modern manufacturing enterprises with a full range of customized solutions for intelligent equipment manufacturing to achieve intelligent, flexible, modular, automated process tracking, etc, It is committed to becoming an invisible champion in the field of digital intelligent equipment manufacturing in the low-voltage electrical appliance industry, boosting the development of Industry 4.0 with intelligent manufacturing, and its business covers more than 30 countries and regions.



## FOUNDER OF BENLONG

Mr. Zhao Zongli, the founder of Benlong brand, was born in Dancheng, Henan Province. He entered the automation equipment manufacturing industry in 1998. He has successively worked in a state-owned robot automation listed company and a low-voltage electrical appliance listed company, engaged in work related to automation project design. In his work, he started at the grass-roots level and was good at learning and thinking. After work, he paid attention to the latest trends in the industry and accumulated experience in continuous learning and practice to increase knowledge.



With years of accumulated technical experience and a grasp of industry trends, he is keenly aware of the urgent demand for "intelligent manufacturing automation system integration equipment" in his industry. Faced with the gap between China's manufacturing industry and the international manufacturing industry, in 2008, Mr. Zhao Zongli cherished the dream of revitalizing China's intelligent manufacturing and gave up stable work. He founded "Benlon" automation, committed to the customized R&D and design of digital intelligent manufacturing equipment in low-voltage electrical appliances industry, and has since opened his way to technological entrepreneurship.

During his start-up period, he adhered to the spirit of craftsmanship and tirelessly carried out technological research and development. He encountered many difficulties, such as insufficient funds, talent difficulties, technical bottlenecks, and so on. In the face of problems, he did not compromise, did not give up, and was determined to make progress. He had been pursuing his dreams and finding ways to solve them, but never felt tired or exhausted.

On the path of entrepreneurship, he closely follows the pace of reform and innovation, actively learns advanced technology and management experience, continuously innovates independently, carries out technological breakthroughs, and leads his team through long-term unremitting efforts and hard work, through "industry university research cooperation and overseas training and learning". Guided by customer needs, he actively explores continuous innovation, strives for excellence, and develops Benlong's own characteristic products, winning widespread praise from customers after successful listing.

Nowadays, he leads "Benlong" to maintain sustained and rapid growth, with a wider product line coverage, forming a unique industrial model for Benlong.

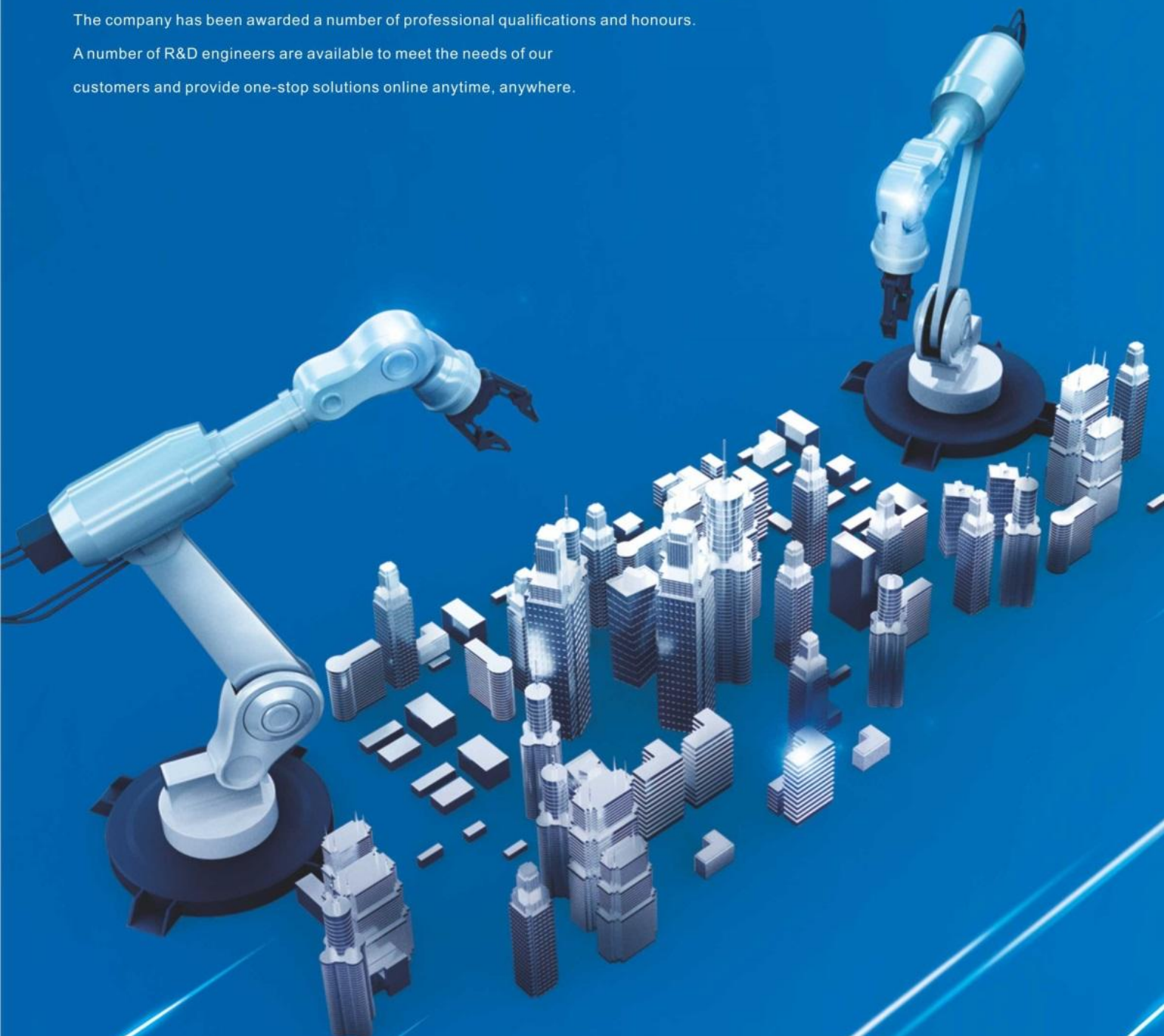
In the future, he will continue to lead Benlong on the path of customized solutions for digital intelligent manufacturing equipment, becoming a benchmark in the industry, assisting China's intelligent manufacturing, promoting the transformation and upgrading of China's manufacturing industry, and striving to build Industry 4.0.



The company is backed by strong scientific research and technical strength, strategic cooperation with scientific research institutes and universities, a senior professional technical team, and an independent research and development room.

The company has been awarded a number of professional qualifications and honours.

A number of R&D engineers are available to meet the needs of our customers and provide one-stop solutions online anytime, anywhere.



**009**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment

# OUR STRENGTHS



## INDUSTRIAL SECTOR

Benlon's industrial field covers automation equipment and digital intelligent manufacturing system, which can customize complete sets of equipment and integrated solutions for intelligent manufacturing of automatic production lines of high and low voltage electrical appliances with international leading standards to promote Industry 4.0



## SYSTEM CHARACTERISTICS

MES Manufacturing execution system is adopted: the functions include resource allocation/status, operation scheduling, production allocation, document control, data collection, WIP status/tracking, quality management, performance analysis, process management, product tracking and pedigree, maintenance management, etc. Automation, informatization, modularization, flexibility, customization, visualization, one click switching, cloud computing, global monitoring and management, pre integration notification, and remote maintenance design concepts.



## DIGITAL MANUFACTURING

The overall solution for digital intelligent manufacturing includes integration of automatic assembly and inspection systems, robot systems, laser automation equipment, intelligent logistics and warehousing systems, and digital intelligent factory solutions. It can achieve the entire lifecycle automation process of products from design to manufacturing, fundamentally realizing the transformation of manufacturing modes.



## CORE COMPETITIVENESS

In the wave of Digital transformation, Benlon Technology complied with the energy trend, created intelligent prefabricated products, built intelligent MES execution system, enabled digital transformation, strengthened energy management, further improved the efficiency and energy saving level of energy use on the basis of ensuring the stability of the automation system, and opened the curtain of Digital transformation of Benlon Technology.



## TECHNICAL SERVICES AND SUPPORT

Benlong Company aims to fully leverage its technological advantages in the field of intelligent manufacturing, better serve regional enterprises, promote regional industrial upgrading, provide intelligent manufacturing solutions for numerous manufacturing enterprises, convey the concept of "intelligent manufacturing", share "intelligent manufacturing" cases, and provide "intelligent manufacturing" technical services.



## HIGH-END INTELLIGENT EQUIPMENT OVERALL SOLUTIONS

Benlong Automation solutions include: power industry, 3C electronics industry, new energy industry, aerospace industry, communication industry, medical and pharmaceutical industry, automotive/motor vehicle industry, hardware/clothing industry, stationery/toy industry, printing/crafts industry, lighting/furniture industry, daily chemical food industry

Actions speak louder than words

Driving digital transformation and upgrading in the manufacturing industry 4.0

**010**



## COMPANY HISTORY

### 2008-2011

#### DEVELOPMENT HISTORY

- 2008 Benlong Automation Technology Co., Ltd. was established in 2008
- 2009 Self-developed RCBO / MCB automated production line
- 2010 Self-developed MCCB / ACB automated production line
- 2011 Exported to more than ten countries including Iran, Middle East and North Africa.

### 2011-2015

#### DEVELOPMENT HISTORY

- 2012 Awarded AAA grade credit enterprise certificate
- 2013 Strategic cooperation signed with Shanghai Institute of Science
- 2014 Obtained Yueqing City Science and Technology (Innovation) Enterprise Certificate
- 2015 Obtained National High-tech Enterprise Certificate

### 2016-2019

#### DEVELOPMENT HISTORY

- 2016 Awarded Science and Technology Progress Prize and Certificate of Zhejiang Province
- 2017 Obtained Yueqing Patent Demonstration Enterprise Certificate
- 2018 Obtained the certificate of Municipal Enterprise Technology Research and Development Centre
- 2019 Awarded Advanced Enterprise Certificate in Science and Technology Innovation

### 2020-2023

#### DEVELOPMENT HISTORY

- 2020 Awarded a certificate as a model enterprise for entrepreneurial youth in Wenzhou
- 2021 Awarded the certificate of AAA grade contract-keeping and trustworthy enterprise in Zhejiang Province
- 2022 Obtained the third national high-tech enterprise certificate
- 2023 Pioneering a new and efficient automation model



011

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production equipment

Actions speak louder than words

Driving digital transformation and upgrading in the manufacturing industry 4.0

012



# SEVEN SERVICE SYSTEMS

## Just to make you more satisfied



013

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment

# EFFICIENT PROFESSIONAL

# CAREFUL QUALITY



ONE

### TECHNICAL SERVICE AND SUPPORT

With the equipment connected to the network, Benlong Automation's professional engineers and technicians are always available to assist remotely with maintenance and cause finding.



TWO

### TECHNICAL SERVICE AND SUPPORT

Technical support and communication between engineers and technicians from both units is available at any time by telephone and WeChat, QQ video, etc.



THREE

### TECHNICAL SERVICE AND SUPPORT

Before the equipment is shipped, the customer is invited to assign 3-5 technicians to Benlong Automation for 20-30 days of professional training in operation, maintenance and production line principles.



FOUR

### TECHNICAL SERVICE AND SUPPORT

Before the equipment is shipped, Benlong Automation provides a complete set of wearing parts in kind, drawings, models, brands and supplier contacts.



FIVE

### TECHNICAL SERVICE AND SUPPORT

When the equipment is delivered, Benlong Automation provides a set of videos and 3D animated schematics of the daily maintenance and wear parts replacement process.



SIX

### TECHNICAL SERVICE AND SUPPORT

The official website of Benlong Automation uploads videos and information on the daily maintenance of the equipment and the replacement process of wearing parts.



SEVEN

### TECHNICAL SERVICE AND SUPPORT

It is recommended that Benlong Automation transport 2-3 Chinese personnel to the customer's company to work, the basic requirements for staffing: familiar with product production process, product quality control, equipment principle, equipment operation skills, equipment The basic requirements are: familiarity with the production process, product quality control, equipment principles, equipment operation skills, equipment routine maintenance, equipment parts replacement and equipment repair.

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Driving digital transformation and upgrading in the manufacturing industry 4.0

014





High-end intelligent equipment overall solutions



## Customer demand survey and automated project process







DEDICATION

INNOVATION

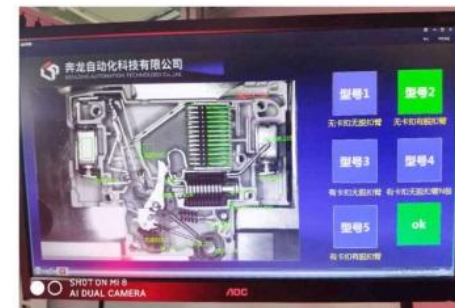
EXPLORATION

## » SOLUTION

-  Power industry
-  3C Electronics Industry
-  New energy industry
-  Aerospace industry
-  Communication industry
-  Medical and pharmaceutical industry
-  Automotive/Motor Vehicle Industry
-  Hardware/Clothing Industry
-  Stationery/Toy Industry
-  Printing/Crafts Industry
-  Lighting/Furniture Industry
-  Daily chemical/food industry



## Automatic production line for high and low voltage electrical components



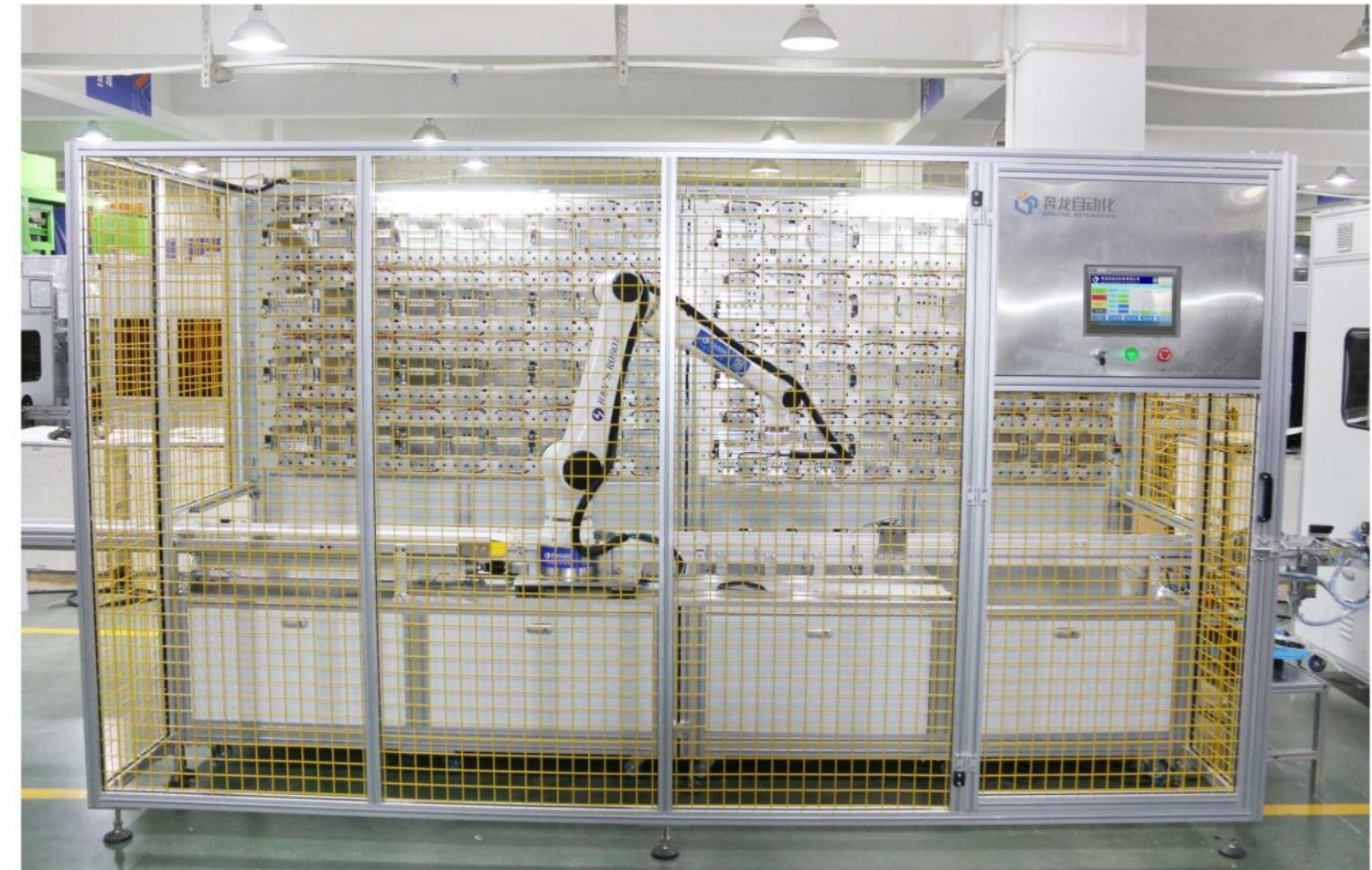
- MCB miniature circuit breaker automatic assembly and testing flexible production line
- IOT intelligent miniature circuit breaker automatic assembly and testing flexible production line
- Leakage circuit breaker automatic assembly and testing flexible production line
- Isolation switch automatic assembly and testing flexible production line
- Energy meter external low voltage circuit breaker automatic assembly and testing flexible production line
- MCCB molded case circuit breaker automatic assembly and testing flexible production line
- MCCB plastic case metering reclosing circuit breaker automatic assembly and testing flexible production line
- AC contactor automatic assembly and testing flexible production line
- ACB frame circuit breaker automatic assembly and testing flexible production line
- Automatic assembly and testing flexible production line for double power automatic transfer switch
- Surge protector automatic assembly and testing flexible production line
- NT50 circuit breaker automatic assembly and testing flexible production line
- RT18 automatic assembly and testing flexible production line for fuse breakers
- VS1 vacuum circuit breaker automatic assembly and testing flexible production line
- Wall switch automatic assembly and testing flexible production line
- Automatic assembly and testing flexible line for time control switches
- Automatic assembly and testing flexible production line for measuring switches
- Automatic assembly and testing flexible production line for energy meters
- Lithium battery automatic assembly and testing flexible production line
- Automatic assembly and testing flexible production line for vacuum circuit breakers in gas-filled cabinets
- Photovoltaic DC isolation switch automatic assembly and testing flexible production line
- Photovoltaic reclosing/DC circuit breaker automatic assembly and testing flexible production line
- Signal light automatic assembly and testing flexible production line
- DC charging pile automatic stamping and welding flexible production line
- DC charging pile automatic assembly and testing flexible production line
- AC charging pile automatic assembly and testing flexible production line
- DC charging gun automatic assembly and testing flexible production line
- Low-voltage magnetron switch automatic assembly and testing flexible production line
- Intelligent control cabinet automatic assembly and testing flexible production line

## MCB miniature circuit breaker automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, assembly, code spraying, nail threading, riveting, instantaneous, delayed, cooling, delayed recalibration, mechanical characteristics, through and break, pressure resistance, pad printing, laser, snap/stop parts, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

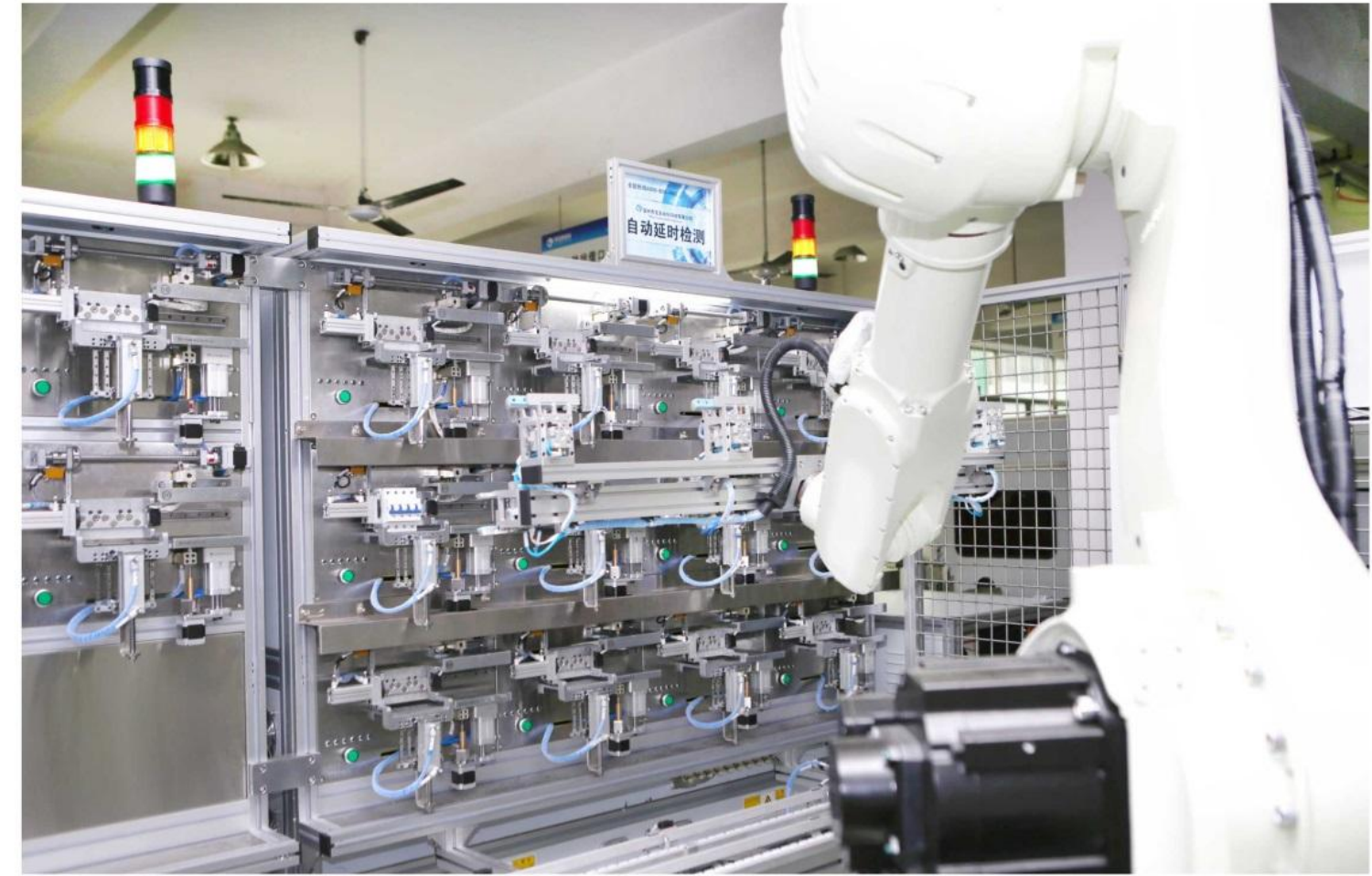
- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 1P, 2P, 3P, 4P, B type, C type, D type, 18 modulus or 27 modulus.
- 3 · Equipment production beat: 1sec/pole, 1.5sec/pole, 2sec/pole, 2.4sec/pole, 3sec/pole, 5sec/pole six kinds can be optional.
- 4 · The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual change of mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights

## IoT intelligent miniature circuit breaker automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, assembling, code spraying, nail threading, riveting, instantaneous, delayed, cooling, delayed recalibration, mechanical characteristics, synchronization, on/off, voltage withstand, overvoltage, undervoltage, temperature calibration, leakage calibration, leakage detection, surge, arc, phase loss, metering calibration, power, power consumption, power factor, frequency, WIFI, Bluetooth, NB, carrier, 4G communication, snap/stopper, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

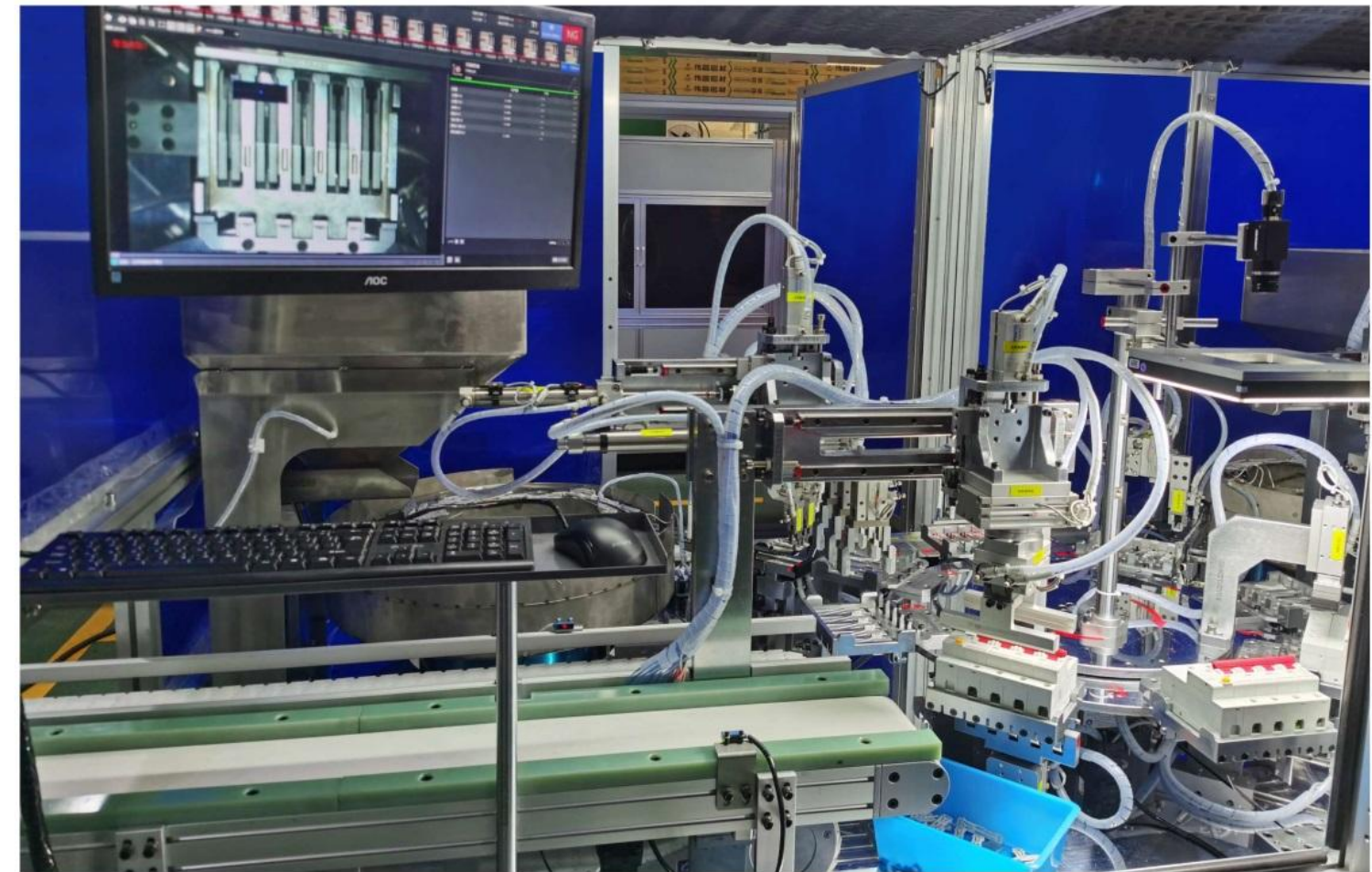
1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility: 1P, 2P, 3P, 4P, B type, C type, D type, 18 modulus or 27 modulus.
3. Equipment production beat: 90 seconds/set, 270 seconds/set, 540 seconds/set three can be optional.
4. The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
5. Assembly method: manual assembly, automatic assembly can be optional.
6. Equipment fixture can be customized according to the product type.
7. Equipment with fault alarm, pressure monitoring and other alarm display functions.
8. Two kinds of operating systems: Chinese and English.
9. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
10. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
11. With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for earth leakage circuit breakers



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, assembly, code spraying, nail threading, riveting, mechanical characteristics, on/off, withstand voltage, residual current, phase angle, decoupling time, test button, 50V reliability, snap/stop parts, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

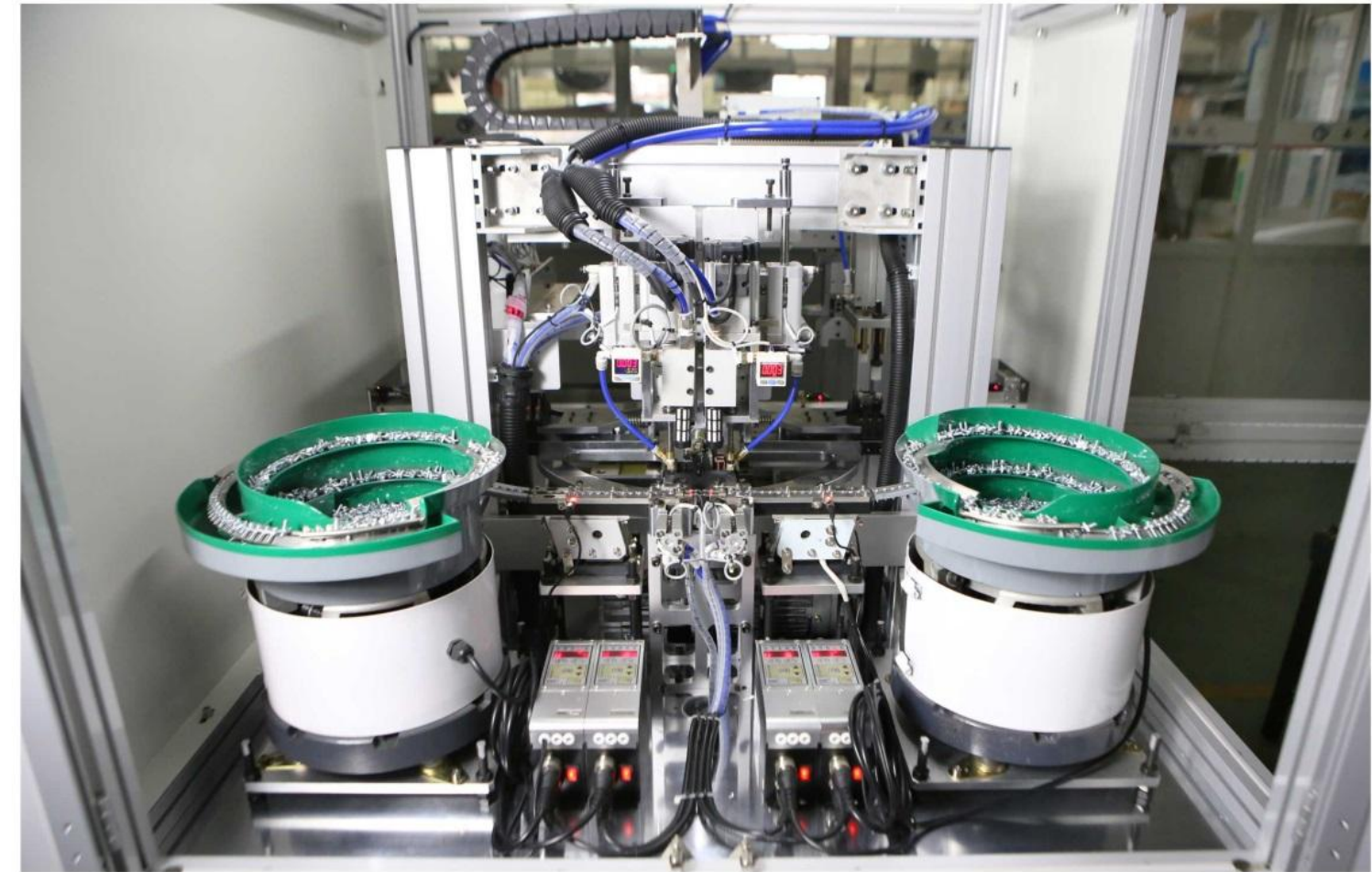
1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility: 1P+N, 2P, 3P+N, 4P, A type, AC type, B type, 18 modulus or 27 modulus.
3. Equipment production beat: 5 seconds/unit, 10 seconds/unit two can be optional.
4. The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
5. Assembly method: manual assembly, automatic assembly can be optional.
6. Equipment fixture can be customized according to the product type.
7. Equipment with fault alarm, pressure monitoring and other alarm display functions.
8. Two kinds of operating systems: Chinese and English.
9. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
10. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
11. With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for disconnect switches



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

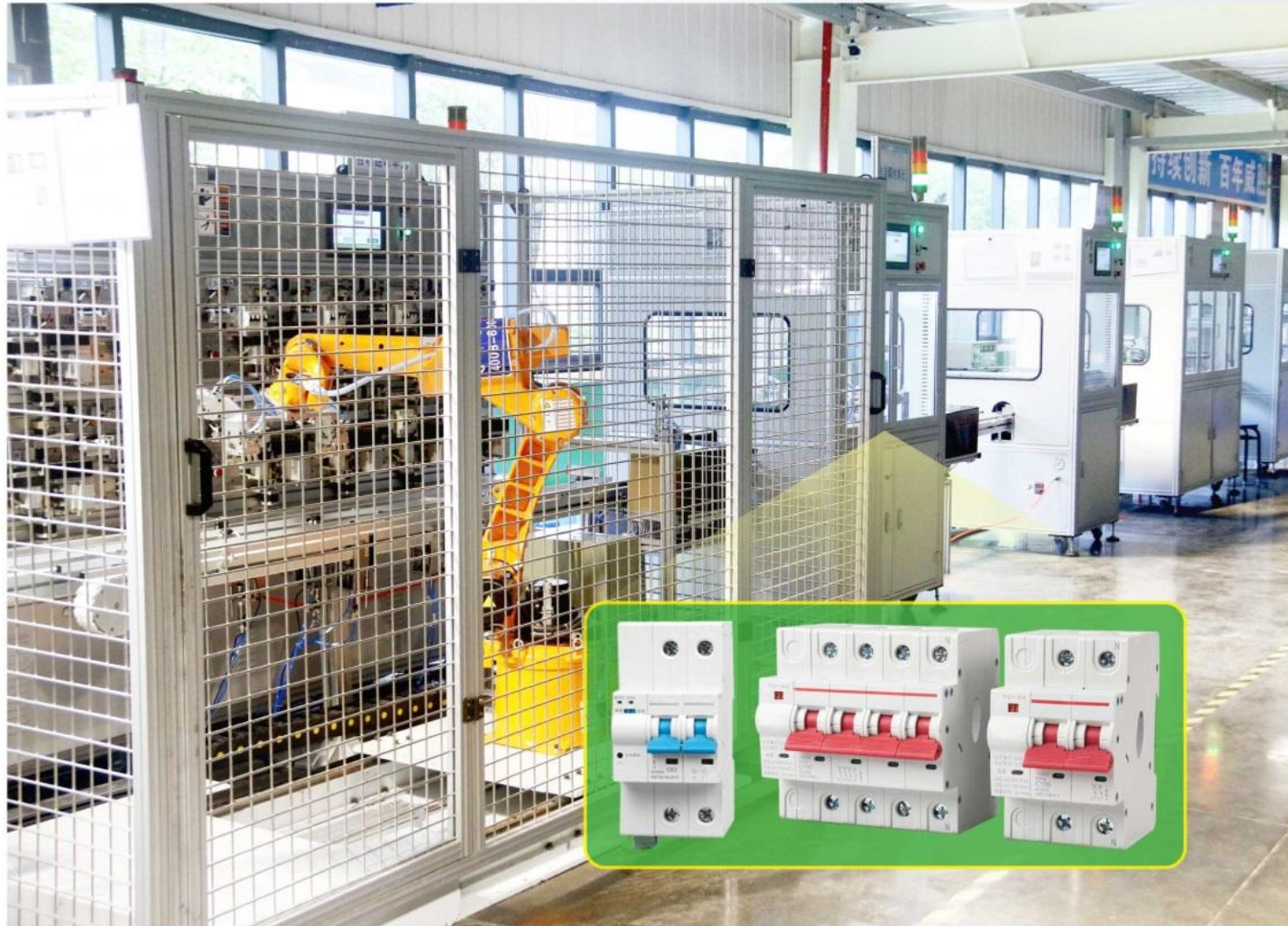
With assembly, locking screws, closing/closing torque, mechanical characteristics, on-off, voltage resistance, synchronisation, circuit resistance, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatible with the number of poles: 2P, 3P, 4P, 63 series, 125 series, 250 series, 400 series, 630 series, 800 series.
3. Production speed of the equipment: 10 seconds/set, 20 seconds/set, 30 seconds/set can be optional.
4. The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
5. Assembly method: manual assembly, automatic assembly can be optional.
6. Equipment fixture can be customized according to the product type.
7. Equipment with fault alarm, pressure monitoring and other alarm display functions.
8. Two kinds of operating systems: Chinese and English.
9. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
10. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
11. With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for external low voltage circuit breakers for energy meters



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, assembly, code spraying, nail threading, riveting, instantaneous, delayed, cooling, delayed recalibration, mechanical characteristics, on/off, withstand voltage, overvoltage, undervoltage, power-on delay, break-over, electric operation detection, communication detection, snap/stop parts, ageing, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 1P, 2P, 3P, 4P, 1P+N, 2P+N, 3P+N, 4P, 2P+electric operation, 3P electric operation, 4P+electric operation, B type, C type, D type, 18 modulo or 27 modulo.
- 3 · Production speed of the equipment: 28 seconds/set, 40 seconds/set can be optional.
- 4 · The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent intellectual property rights.

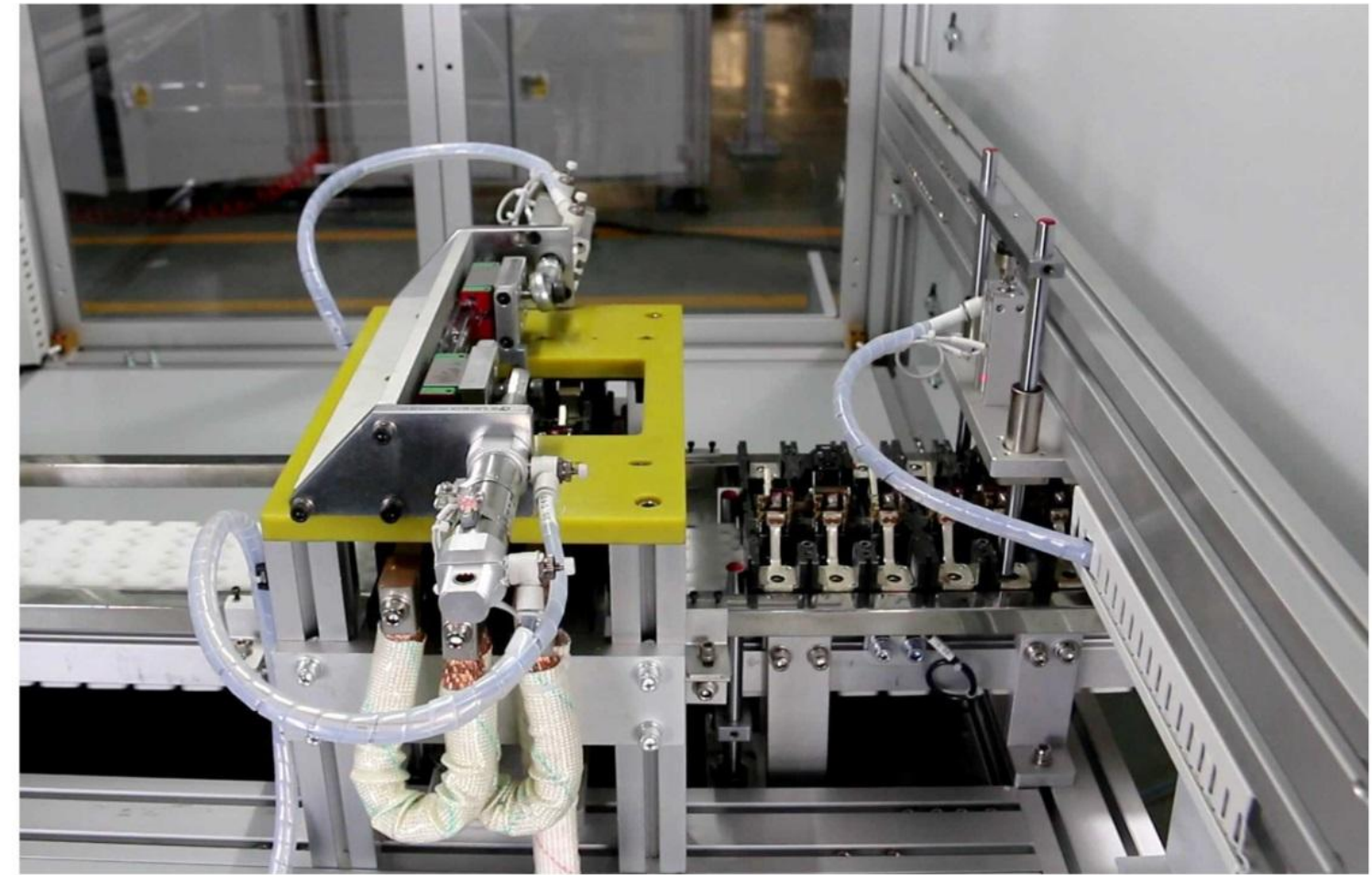


## MCCB flexible production line for automated assembly and testing of moulded case circuit breakers



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, labelling, mechanical grinding, open distance, overtravel, final pressure, circuit resistance, decoupling force, decoupling stroke, synchronisation, instantaneous, delayed, slow return, mechanical characteristics, on-off, pressure resistance, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 2P, 3P, 4P, 63 series, 125 series, 250 series, 400 series, 630 series, 800 series.
- 3 · Equipment production beat: 28 seconds/unit, 40 seconds/unit two can be optional.
- 4 · The same shell and frame product, different poles can be switched with one key or by scanning the code; switching different shell and frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## MCCB plastic case metering reclosing circuit breaker automatic assembly and testing flexible production line



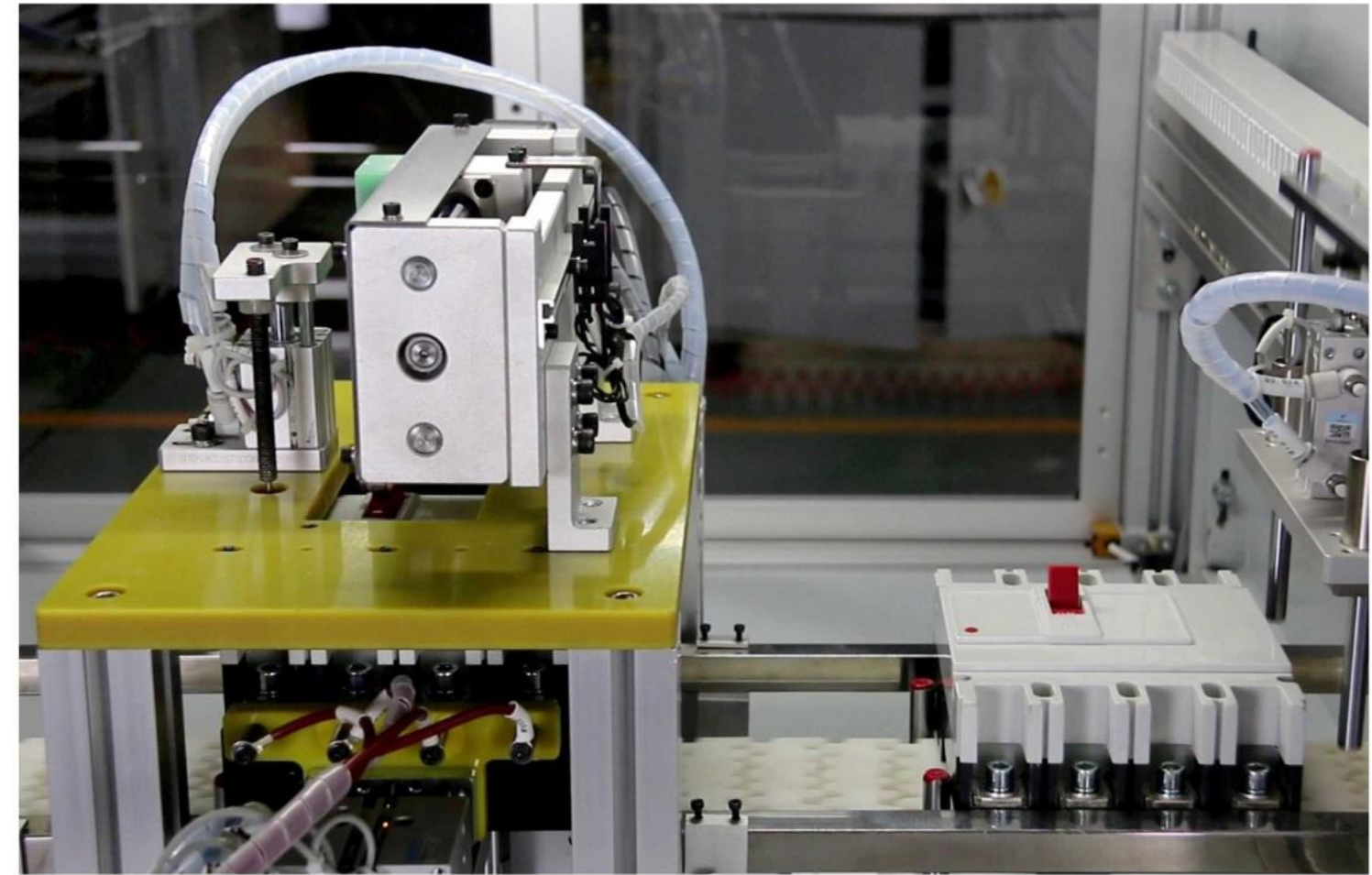
### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic loading, assembly, labelling, mechanical grinding, open pitch, overtravel, final pressure, circuit resistance, decoupling force, decoupling travel, synchronisation, instantaneous, delayed, load current lift variation, locking face cover screw, slow return, mechanical characteristics, on/off, withstand voltage, pad printing, residual current calibration, residual current detection, power calibration, overvoltage, undervoltage, phase voltage, line voltage, voltage unbalance, voltage transient drop, voltage short interruption, active power, reactive power, apparent power, phase, power consumption, power factor, frequency, vector diagram, waveform curve, BSU control, power factor, TTL level pulse, harmonics, out-of-limit, phase loss, phase break, zero loss, power failure, reverse phase sequence, carrier module communication, top complement detection, islanding protection, locking terminal block screws, ageing, laser marking, packaging, palletizing, AGV logistics The company's products are equipped with a variety of functions such as assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.



**033**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 2P, 3P, 4P, 63 series, 125 series, 250 series, 400 series, 630 series, 800 series.
- 3 · Equipment production beat: 60 seconds/unit, 120 seconds/unit two can be optional.
- 4 · The same shell and frame product, different poles can be switched with one key or by scanning the code; switching different shell and frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

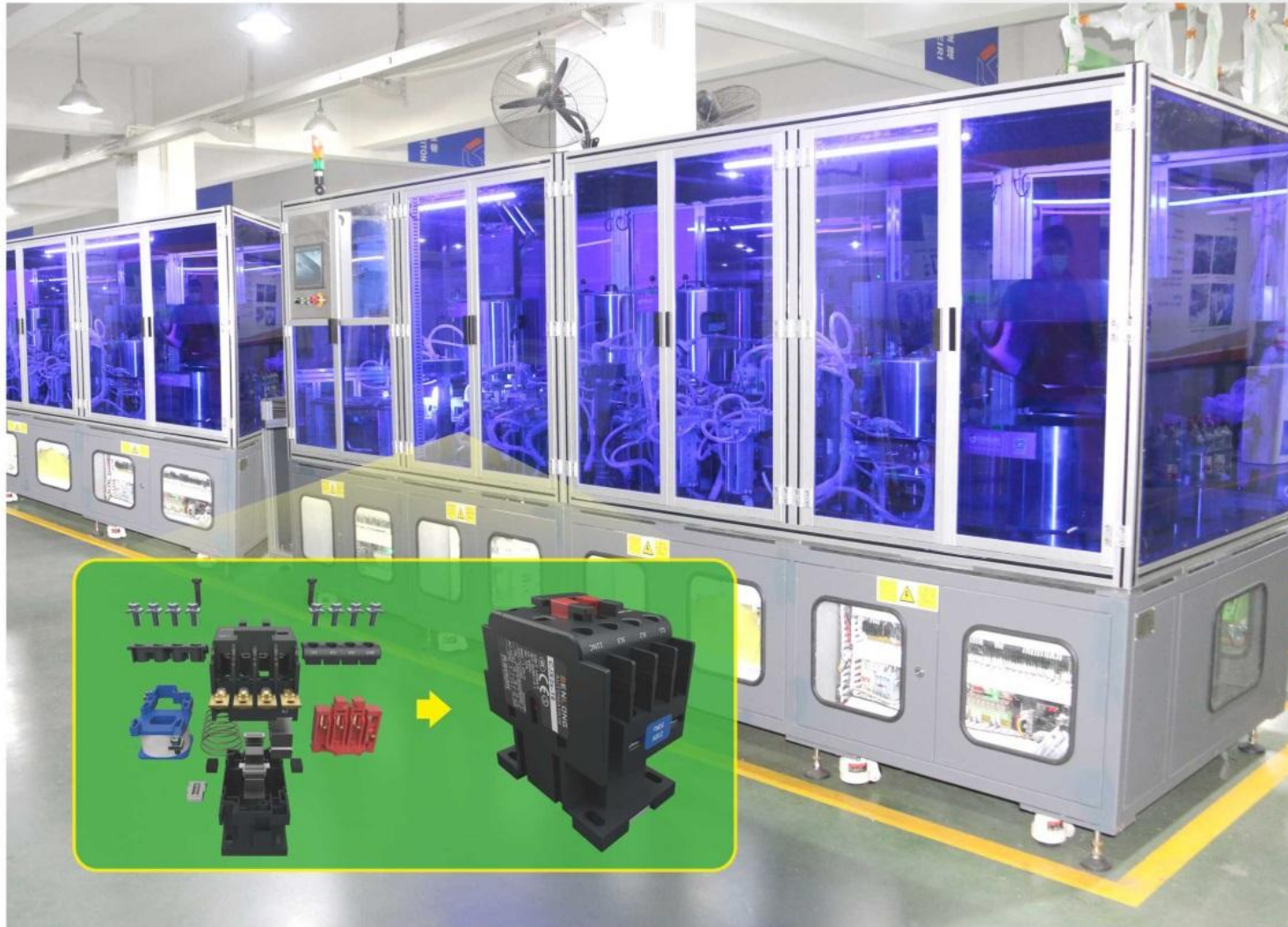
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**034**

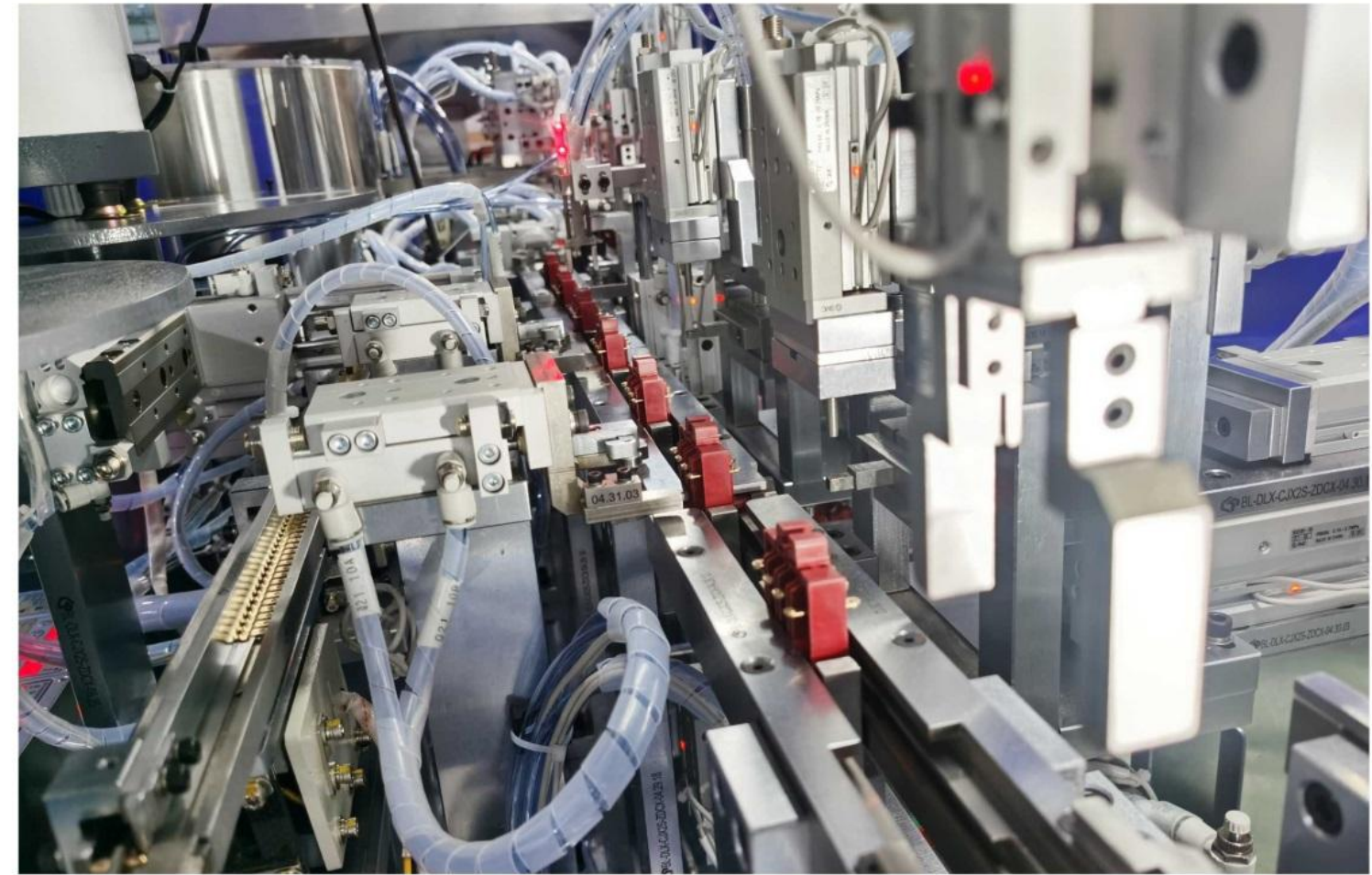


## Flexible production line for automated assembly and testing of AC contactors



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic loading, insert assembly, base assembly, main and auxiliary static contact assembly, manual assembly of pagoda springs, locking upper and lower cover screws, locking tile screws, through and through, pressure resistance, power consumption, forward tilt absorption, backward tilt release, open distance, over travel, total travel, synchronization, manual assembly of front and rear blocking parts, pad printing, laser marking, CCD visual inspection, labeling, coding, bagging, bag cutting, heat shrinkage, packaging, sealing, strapping, Palletizing, AGV logistics, shortage/full material alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, key component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Device input voltage 380V±10%, 50Hz; ±1Hz
- 2 · Equipment compatible specifications: CJX2-0901, 0910, 1201, 1210, 1801, 1810.
- 3 · Equipment production beat: 5 seconds/set, 12 seconds/set two can be optional.
- 4 · Different specification products can be switched by one key or by scanning the code; switching different shell and frame products requires manual replacement or adjustment of moulds/fixtures and manual replacement/adjustment of different product accessories.
- 5 · Assembly method: manual assembly and automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · The equipment has alarm display functions such as fault alarm and pressure monitoring.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights

## ACB frame circuit breaker automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, screw locking, 2D code labelling, mechanical break-in, comprehensive testing, over-undervoltage testing, action time, instantaneous/delayed testing, high voltage resistance testing, circuit resistance testing, appearance testing, automatic feeding, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: drawer type, fixed series products of 3-pole, 4-pole or customized according to customer requirements.
- 3 · Equipment production beat: 7.5 min/set, 10 min/set two can be optional.
- 4 · The same shell frame product, different poles can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## Double power automatic transfer switch automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With assembly, screw punching, 2D code labelling, ageing detection, mechanical characteristics, comprehensive testing, over-undervoltage detection, action time, key detection, voltage resistance testing, circuit resistance testing, comprehensive characteristics, pad printing, laser marking, packaging, palletizing, AGV logistics, lack of material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: one series of products of 3 poles, 4 poles or customized according to customer requirements.
- 3 · Equipment production beat: 28.8 seconds/set, 57.6 seconds/set two can be optional.
- 4 · the same shell frame products, different poles can be switched with one key or scan the code switch can be; switch different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for surge protectors



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic material supply, assembly, screw locking, tin soldering, pulling force detection, through break detection, surge shock detection, high voltage resistance detection, snap fitting, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

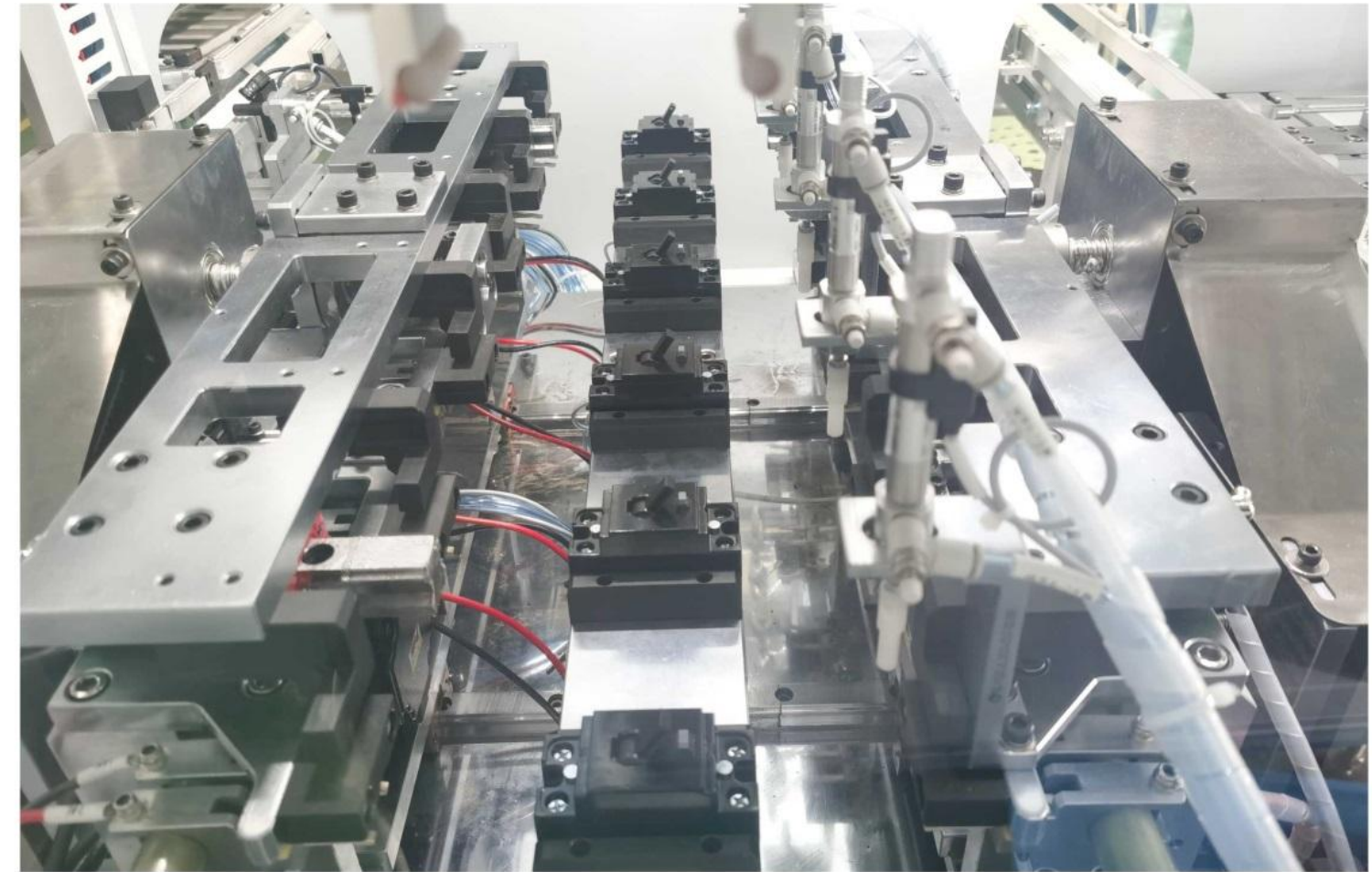
- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 2-pole, 3-pole, 4-pole of one series products or customized according to customer requirements.
- 3 · Equipment production beat: 5 seconds/set, 10 seconds/set two can be optional.
- 4 · the same shell frame products, different poles can be switched with one key or scan code switch; switch different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## Nt50 flexible production line for automated assembly and testing of circuit breakers



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic loading, assembly, open distance, overtravel, circuit resistance, decoupling force, decoupling stroke, synchronisation, instantaneous, delayed, locking screw, mechanical characteristics, on/off, voltage resistance, pad printing, residual current detection, pad printing, laser marking, labelling, packaging, palletizing, AGV logistics, lack of material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

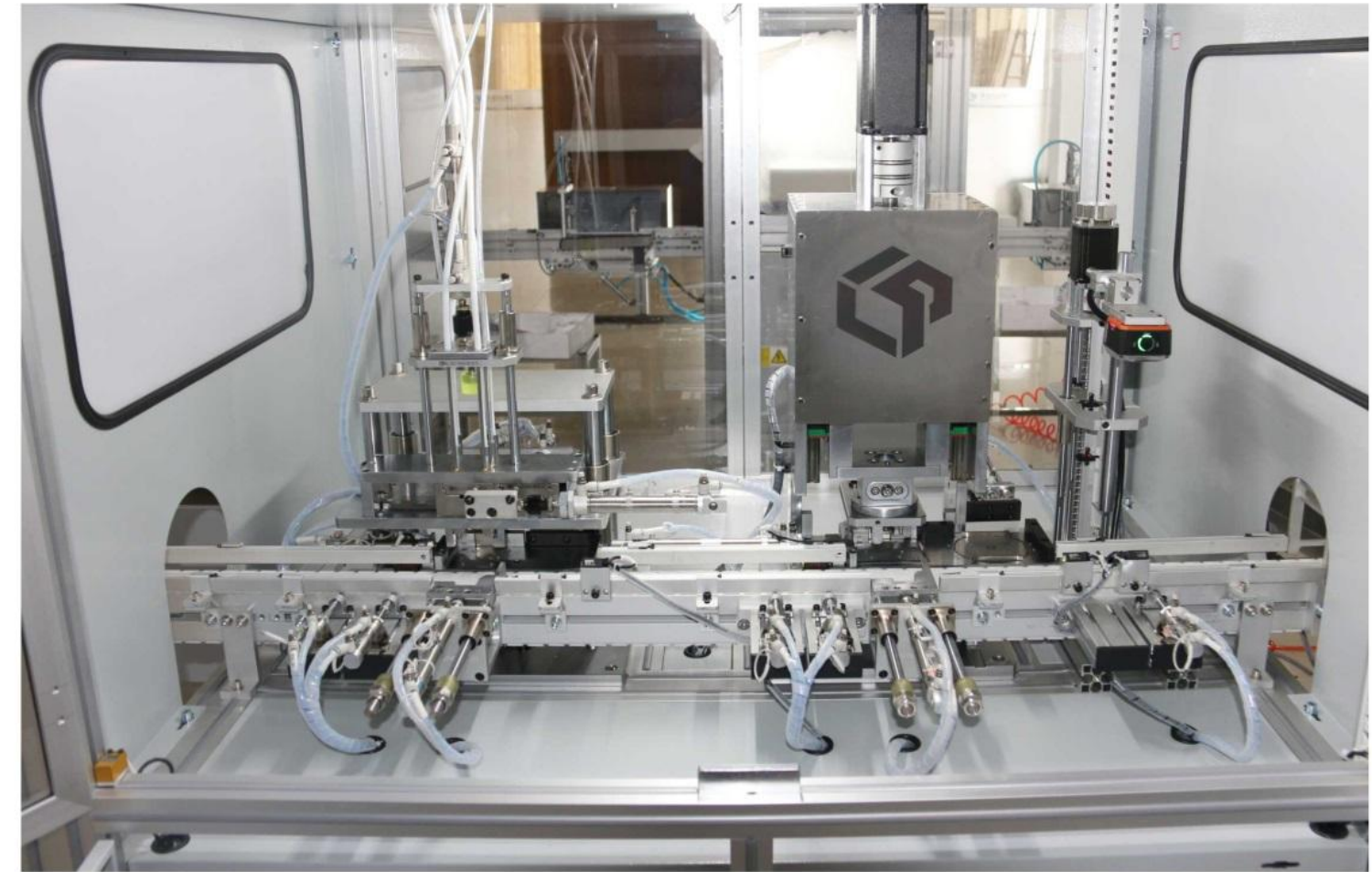
- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: one series of products 2 poles or customized according to customer requirements.
- 3 · Equipment production beat: 5 seconds/set, 10 seconds/set two can be optional.
- 4 · the same shell frame products, different poles can be switched with one key or sweeping code switch can be; switch different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## RT18 automatic fuse assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic material supply, assembly, screw locking, nail threading, riveting, pulling force testing, through break testing, high pressure resistance testing, snap fitting, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 1 pole, 2 poles, 3 poles, 4 poles of one series of products or customized according to customer requirements.
- 3 · Equipment production beat: 5 seconds/set, 10 seconds/set two can be optional.
- 4 · the same shell frame products, different poles can be switched with one key or scan code switch; switch different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".



## Vs1 vacuum circuit breaker automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic AGV logistics conveying, automatic gantry loading, multiplier chain logistics, insulating cylinder assembly, interrupter chamber assembly, primary adjustment assembly, primary adjustment turning, robot locking screws, open distance, overtravel, total travel, break-in detection, mechanical characteristic detection, splitting and closing speed, synchronization, A-phase closing time, B-phase closing time, C-phase closing time, contact arm contact assembly, high voltage resistance (10KVA), circuit resistance, Chassis car assembly, robot locking screws, chassis car turning, chassis car wiring, exterior sealing plate assembly, secondary integrated testing, automatic gantry loading, packaging, palletizing, AGV logistics conveying, shortage of material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, arbitrary formulation of parameters, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: VS1-12KV, VS2, ZN73-12, 630-25, 1250-31 series products or customized according to customer requirements.
- 3 · Production speed of the equipment: 30 units/day or 50 units/day can be optional.
- 4 · The same shell frame product, different specifications can be switched by one key or sweeping the code; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights

## Automatic assembly and testing flexible production line for wall switches



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic material supply, assembly, screw locking, insertion and removal force, through and break, high pressure resistance, pad printing, laser, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: one series of products or customized according to customer requirements.
- 3 · Equipment production beat: 5 seconds/set, 10 seconds/set two can be optional.
- 4 · the same shell frame products, different pole number can be switched with one key or sweeping code switch can be; switch different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for time control switches



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

It has the functions of automatic product loading, assembly, tin soldering, characteristic testing, pad printing, laser marking, ageing testing, qualified and unqualified differentiation, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: one series of products or customized according to customer requirements.
- 3 · Equipment production beat: 10 seconds/set, 20 seconds/set two can be optional.
- 4 · the same shell frame products, different pole number can be switched with one key or sweeping code switch can be; switching different shell frame products need to manually replace the mould or fixture.
- 5 · Assembly method: manual assembly, automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for measuring switches



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

with automatic loading, assembly, open distance, overtravel, final pressure, circuit resistance, release force, release travel, synchronization, instantaneous, delay, load current lift variation, screw torque, slow return, mechanical characteristics, on/off, withstand voltage, pad printing, residual current calibration, residual current detection, power calibration, overvoltage, undervoltage, phase voltage, line voltage, voltage unbalance, voltage transient, voltage short interruption, active power, reactive power, apparent power, phase, power consumption, power factor, frequency, vector diagram, waveform curve, BSU control, power factor, TTL level pulses, harmonics, out-of-limit, out-of-phase, out-of-phase, out-of-zero, stop-and-return, reverse phase sequence, carrier module communication, ageing, laser marking, packaging, palletizing, AGV logistics, out-of-material alarm and other processes of assembly, online detection, real-time monitoring, quality traceability The company has a wide range of functions such as barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.



### PRODUCTION LINE TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatible with the number of poles: 3P, 4P, 63 series, 125 series, 250 series, 400 series, 630 series, 800 series.
3. Equipment production beat: 28 seconds/set, 40 seconds/set two can be optional.
4. The same shell and frame product, different poles can be switched with one key or by scanning the code; switching different shell and frame products requires manual replacement of moulds or fixtures.
5. Assembly method: manual assembly, automatic assembly can be optional.
6. Equipment fixture can be customized according to the product type.
7. Equipment with fault alarm, pressure monitoring and other alarm display functions.
8. Two kinds of operating systems: Chinese and English.
9. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
10. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
11. With independent independent intellectual property rights.

## Automatic assembly and testing flexible production line for energy meters



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With product automatic loading base, assembly of conductive pillar, assembly of circuit board, tin soldering, locking screws, assembly of sealing ring, assembly of glass cover, assembly of outer ring, locking screws, characteristic detection, daily timing detection, error calibration, voltage resistance detection, full screen detection, comprehensive detection of characteristics, laser marking, automatic labeling, carrier wave detection, infrared function detection, Bluetooth communication detection, recalibration detection, assembly of nameplate, sweeping asset information Data comparison, qualified and unqualified distinction, packaging, palletizing, AGV logistics, missing material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.

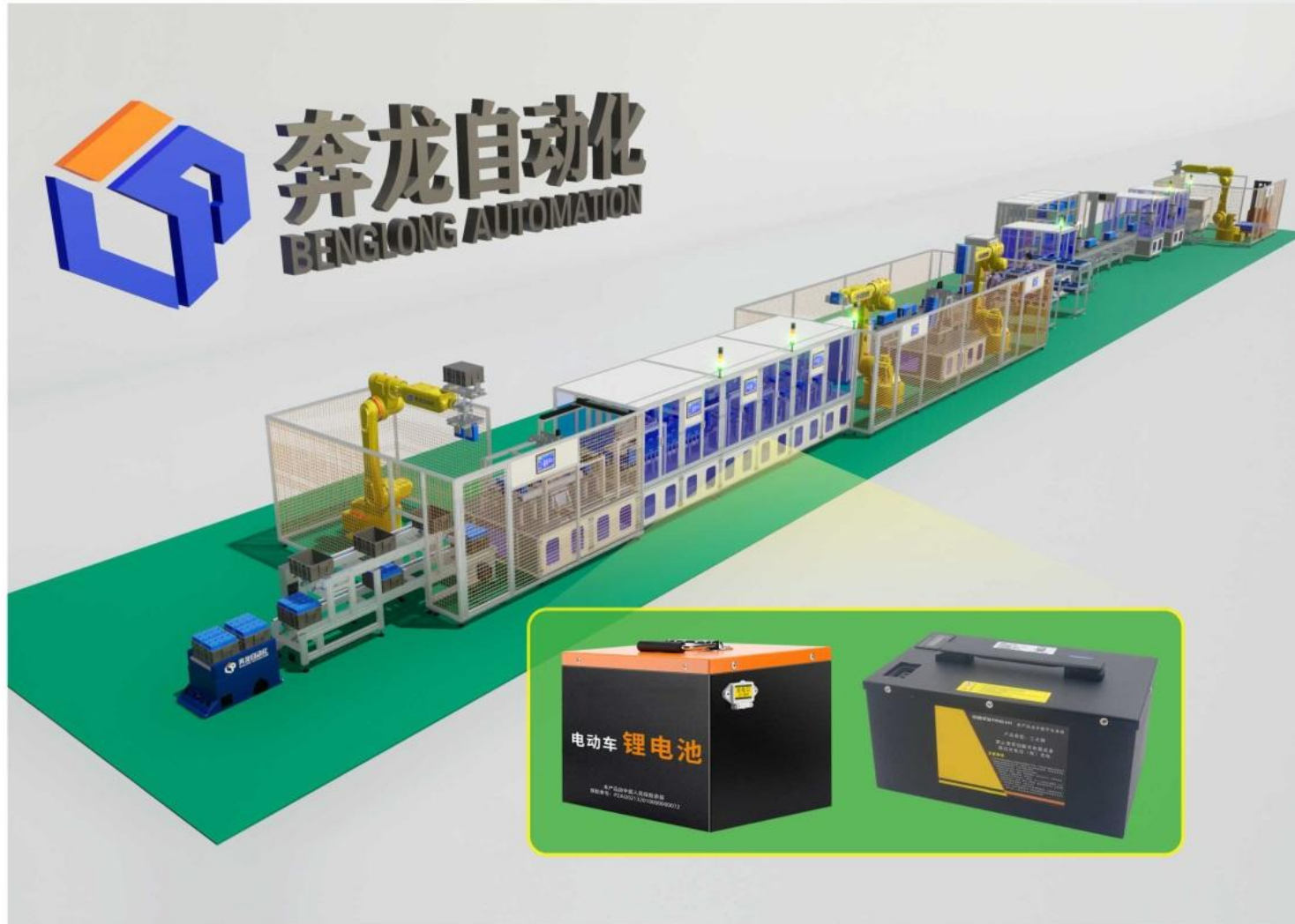


### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Device input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatible with: State Grid/South Grid, single-phase energy meter series, three-phase energy meter series.
- 3 · Equipment production beat: 30 seconds/set, and can be customized according to customer requirements.
- 4 · the same shell frame products, different poles can be switched with one key or scan code switch; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly and automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

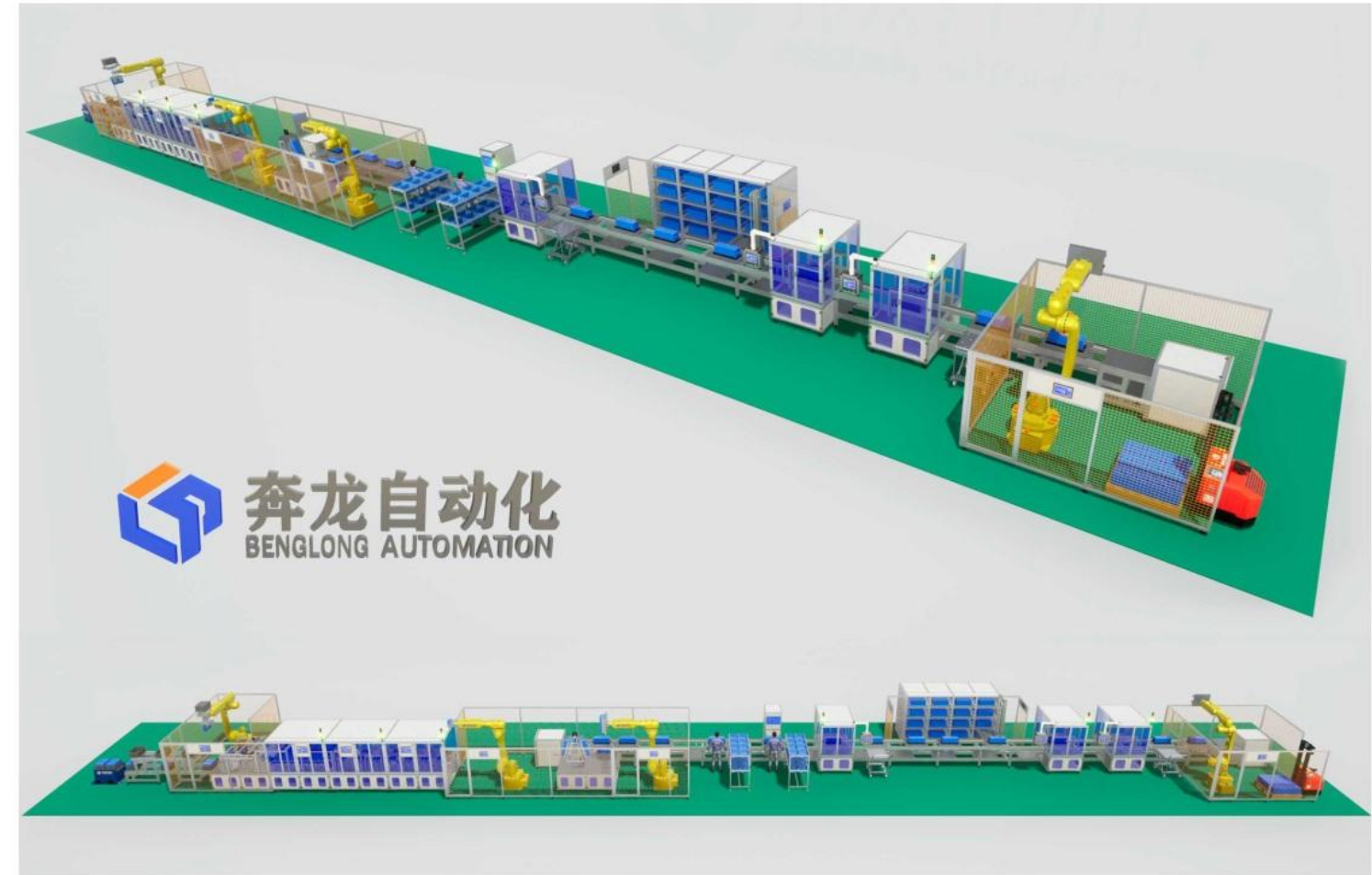


## Lithium battery automatic assembly and testing line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With product AGV automatic loading, automatic conveyance of work plates, robot grab loading, sweep code OVC test, different grade sorting, plasma cleaning, gluing, robot grab core automatic stacking, gluing, shaping, angle rotation, end plate assembly, core gluing, strapping, pole pillar cleaning, aluminum row installation, visual inspection, pole pillar concentricity detection, solidification aging, laser welding, EOL detection, qualified or unqualified, automatic feeding, packaging, palletizing, AGV logistics, data storage, MES system and ERP alarm. The system is equipped with the following functions: assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, networking of MES system and ERP system, arbitrary recipe of parameters, intelligent energy analysis and energy saving management system, and big data cloud platform for intelligent equipment services.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: 50Ah, 100Ah, 240Ah, 280Ah.
- 3 · Equipment production beat: customized according to customer requirements.
- 4 · Different specifications of products can be switched with one key or sweeping code switching are available; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Loading and unloading method: over joint robot, and can be optional.
- 6 · The equipment fixture can be customized according to the product type.
- 7 · The equipment has alarm display functions such as fault alarm and pressure monitoring.
- 8 · Two kinds of operating systems, Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent intellectual property rights.

## Automatic assembly and testing flexible production line for vacuum circuit breakers in gas-filled cabinets



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

It has the functions of automatic product loading, assembly, screw locking, laser marking, break-in testing, characteristic testing, pressure resistance testing, local discharge testing, qualified and unqualified differentiation, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.



**059**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: customized according to customer requirements.
- 3 · Equipment production beat: 115 seconds/set, and can be customized according to the requirements.
- 4 · The same shell frame product, different poles can be switched by one key or by sweeping the code; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly and automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

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**060**



## Automatic assembly and testing flexible production line for photovoltaic DC disconnect switches



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With the product robot automatic loading, dynamic contact frame assembly, static contact plate locking screws, base base pressed magnet, left base assembly assembly, right base assembly assembly, base assembly assembly, cam assembly assembly, O-ring assembly, face cover assembly, upper and lower support assembly assembly, assembly of components together, automatic screw withdrawal, ultrasonic welding, air tightness testing, through/pressure testing, pad printing, laser marking, CCD appearance inspection, qualified and unqualified differentiation, packaging, palletizing, AGV logistics, missing material alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



**061**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatible specification: same modulus series 2P, 3P, 4P, 6P, 8P, 10P total 6 products switch production.
- 3 · Equipment production beat: 5 seconds/set.
- 4 · The same shell frame product, different pole numbers can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
- 5 · Assembly method: manual assembly and automatic assembly can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.

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**062**





## Photovoltaic reclosing DC circuit breaker automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With product robot automatic loading, assembly, multi-pole assembly, spray code / laser 2D code, nail, riveting, instantaneous, robot + delay detection, cooling, robot + delay recalibration, module assembly, assembly snap / stop, circuit breaker + module assembly, nail, riveting, robot + electric operation detection, robot + aging detection, pad printing, laser marking, CCD appearance detection, qualified or unqualified distinction The functions of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc. are available for packaging, palletizing, AGV logistics, shortage alarm.



**063**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### PRODUCTION LINE TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatible specifications: 18 module series or 27 module series circuit breaker 1P, 1P+N, 2P, 3P, 3P+N, 4P, 1P+module, 2P+module, 3P+module, 4P+module.
3. Equipment production beat: 10 seconds/unit.
4. The same shell frame product, different pole numbers can be switched by one key or by scanning the code; switching different shell frame products requires manual replacement of moulds or fixtures.
5. Assembly method: manual assembly and automatic assembly can be optional.
6. Equipment fixture can be customized according to the product type.
7. Equipment with fault alarm, pressure monitoring and other alarm display functions.
8. Two kinds of operating systems: Chinese and English.
9. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
10. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
11. With independent independent intellectual property rights

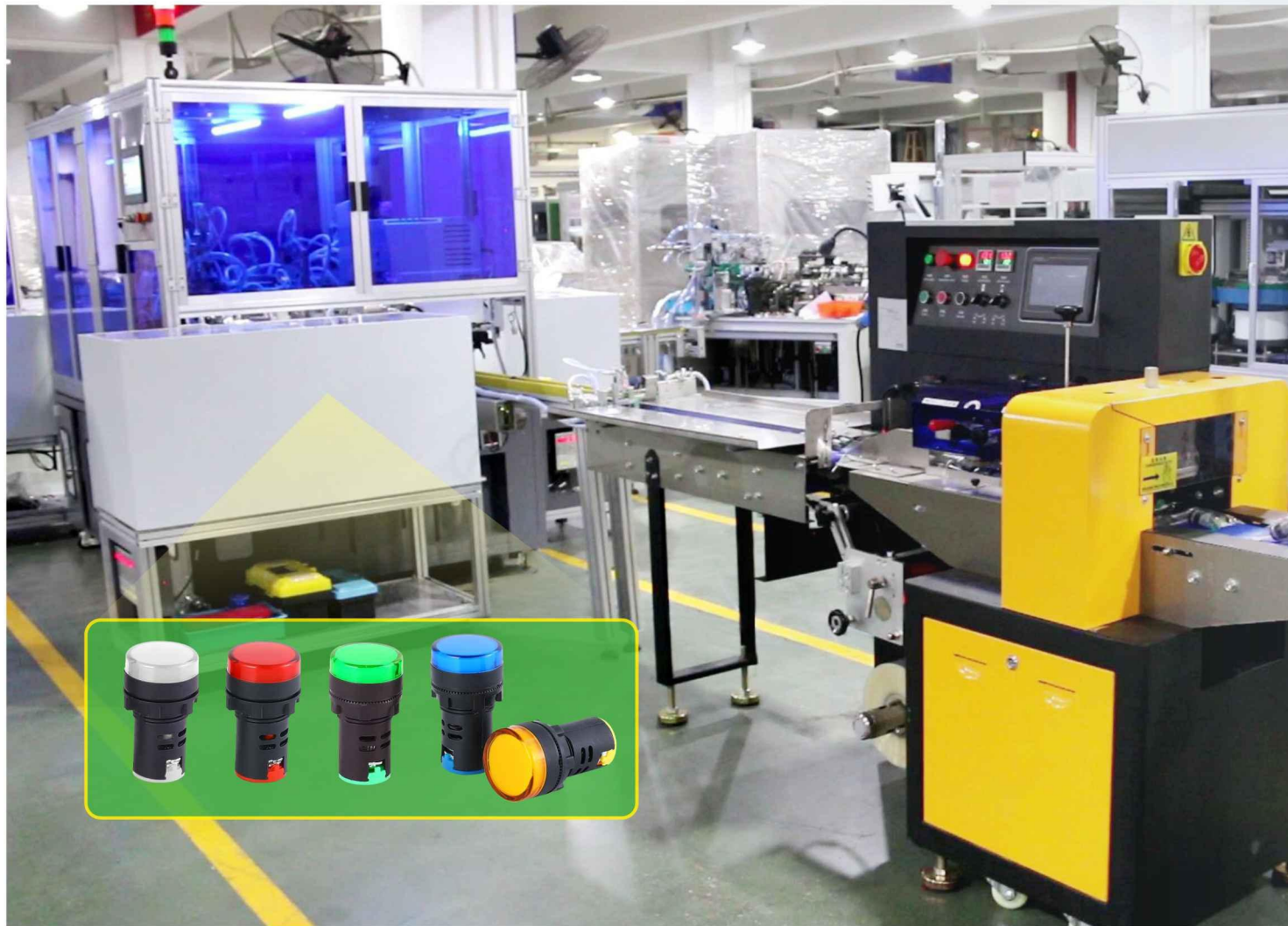
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**064**

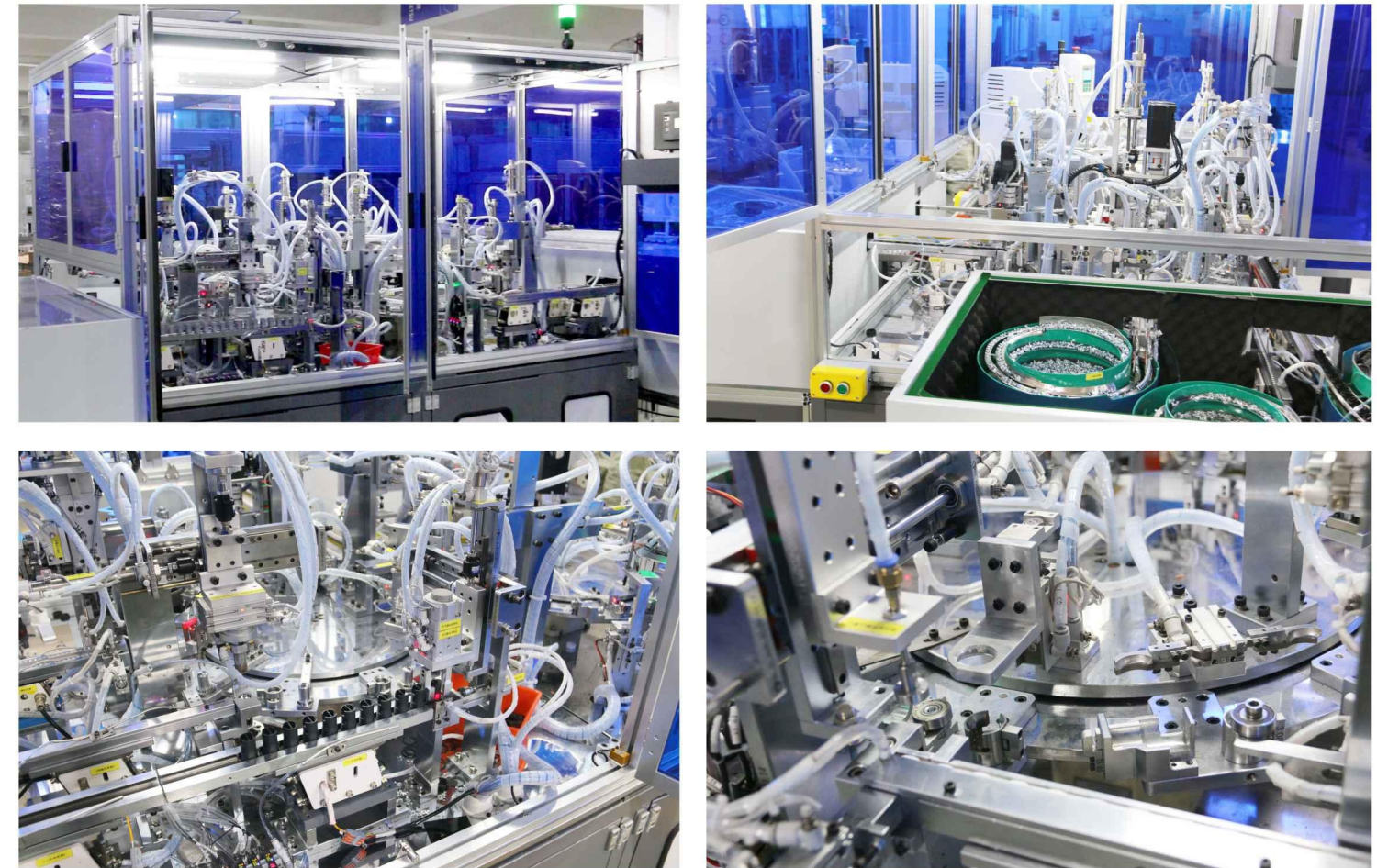


## Signal light automatic assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

It has the functions of automatic product loading, tin soldering, cap fitting, rubber ring fitting, plastic nut fitting, screw locking, pad printing, laser marking, testing, qualified and unqualified differentiation, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2, the equipment is compatible: AC220V, DC24V a series of products switch production.
- 3 · Equipment production beat: 2 seconds/pc.
- 4, assembly mode: manual replenishment, automatic assembly.
- 5 · Equipment fixture can be customized according to the product model.
- 6 · The equipment has alarm display functions such as fault alarm and pressure monitoring.
- 7 · Two kinds of operating systems, Chinese and English.
- 8 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 9 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 10 · With independent independent intellectual property rights.



## DC charging pile automatic stamping and welding flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic silo feeding, automatic laser cutting, automatic robot loading, automatic CNC stamping, automatic robot unloading, automatic transfer, automatic robot bending, automatic transfer, automatic robot secondary bending, automatic robot positioning, automatic robot unloading, automatic robot handling, robot clamping, automatic robot welding, automatic robot unloading, automatic palletizing, AGV logistics, shortage alarm, etc. Assembly of work sequences, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · Equipment input voltage 380V±10%, 50Hz; ±1Hz;
- 2 · Equipment compatibility: customized according to product drawings.
- 3 · Equipment production tempo: customized according to customer requirements.
- 4 · Different products can be switched in one key or sweep code to switch production.
- 5 · Assembly method: manual assembly, robot automatic assembly two can be optional.
- 6 · Equipment fixture can be customized according to the product type.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 8 · Two kinds of operating systems: Chinese and English.
- 9 · All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 10 · The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · With independent independent intellectual property rights.



## DC charging pile automated assembly and testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

Suitable for assembly: DC charging post, AC charging post, single-headed charging post, multi-headed charging post, floor standing charging post Charging post, wall-mounted charging post

Equipment functions: automatic conveying system, workstation assistance - lighting fan airway chute hooks sockets air source interface process Display screens etc., material call systems, sweeping storage systems etc.

Area division: assembly area, testing area, ageing area, testing area, hermeticity testing, special protection testing Packaging and palletizing area

Production site requirements: production area, material storage area, logistics channel, finished product storage area, office area and special Installation area for special facilities



**069**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### PRODUCTION LINE TECHNICAL PARAMETERS

- A. Charging pile assembly line production capacity, beat: 50 units/8h; production basic beat: 1 unit/min, production time: 8h/shift, 330 days/year.
- B. Total length of charging pile assembly line: assembly line 33.55m; assembly line to be inspected 5m inspection line 18.5m
- C. Charging pile assembly line Maximum weight of pile body: 200kg
- D. Maximum dimension of pile body: 1000X1000X2000(mm)
- E. Charging pile assembly line line height: 400mm.
- F. Total air consumption: compressed air pressure of 7kgf/cm<sup>2</sup>, flow rate not exceeding 0.5m<sup>3</sup>/min (excluding the air consumption of pneumatic tools and pneumatic assisted manipulator).
- G. Total electricity consumption: the whole set of assembly line is not more than 30KVA.
- H. Noise of the charging pile line: the noise of the whole line is less than 75dB (tested at 1m from the noise source).
- I. The design of the charging pile assembly line and each special machine is advanced and reasonable, with a high degree of automation, the logistics meets the requirements of the process route, and the production line will not be congested and blocked; the structure of the line is solid and stable, and the appearance is uniform.
- J. The charging pile assembly line has sufficient stability and strength under normal working conditions.
- K. The overhead line body of the charging pile assembly line must be strong, rigid and stable enough not to threaten the safety of personnel; there are corresponding protective devices and safety warning signs in places where special machines and equipment may crisis personal safety.

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**070**



## AC charging pile automated assembly and testing flexible production line



## INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic silo feeding, automatic laser cutting, automatic robot loading, automatic CNC stamping, automatic robot discharging, automatic transfer, automatic robot bending, automatic transfer, automatic robot secondary bending, automatic robot positioning, automatic robot discharging, automatic robot handling, robot clamping, automatic robot welding, automatic robot discharging, automatic palletising, AGV logistics, out-of-materials alarms and so on. Assembly of work processes, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy-saving management system, intelligent equipment service big data cloud platform and other functions.



**071**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



## PRODUCTION LINE TECHNICAL PARAMETERS

- 1, equipment input voltage: 380V ± 10%, 50Hz; ± 1Hz;
- 2 · Equipment compatibility: customised according to product drawings.
- 3, equipment production beat: customised according to customer requirements.
- 4 · Different products can be switched by one key or swept code to switch production.
- 5 · Assembly method: manual assembly, robot automatic assembly two kinds can be optional.
- 6 · Equipment fixture can be customised according to the product model.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display function.
- 8, Chinese and English version of the two operating systems.
- 9 · All core parts are imported from Italy, Sweden, Germany, Japan, the United States, Taiwan and other countries and regions.
- 10 · Equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · It has independent independent intellectual property rights.

Actions speak louder than words

Driving digital transformation and upgrading in the manufacturing industry 4.0

**072**

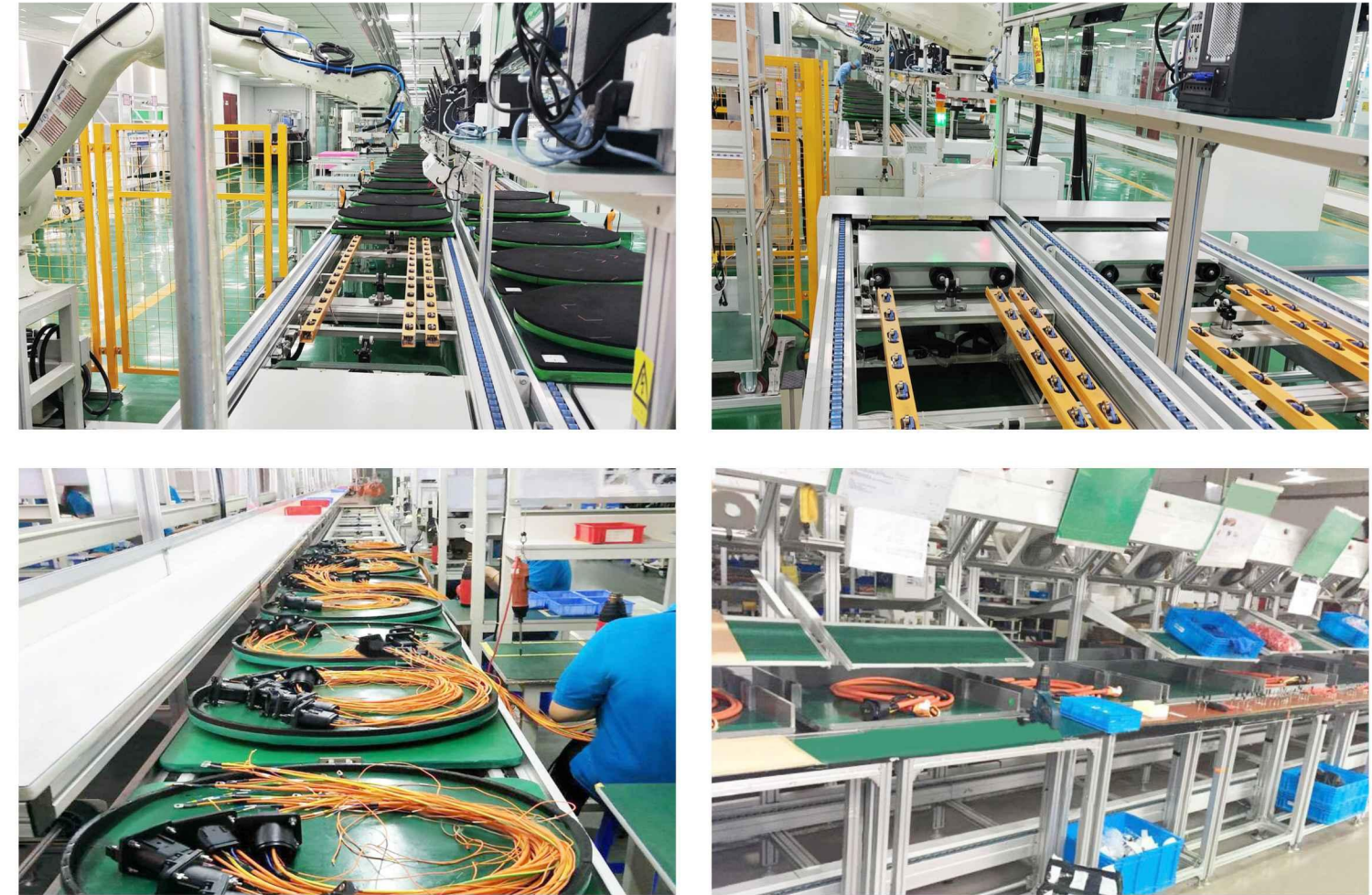


## DC charging gun automatic equipment testing flexible production line



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With automatic silo feeding, automatic laser cutting, automatic robot loading, automatic CNC stamping, automatic robot discharging, automatic transfer, automatic robot bending, automatic transfer, automatic robot secondary bending, automatic robot positioning, automatic robot discharging, automatic robot handling, robot clamping, automatic robot welding, automatic robot discharging, automatic palletising, AGV logistics, out-of-materials alarms and so on. Assembly of work processes, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy-saving management system, intelligent equipment service big data cloud platform and other functions.



### PRODUCTION LINE TECHNICAL PARAMETERS

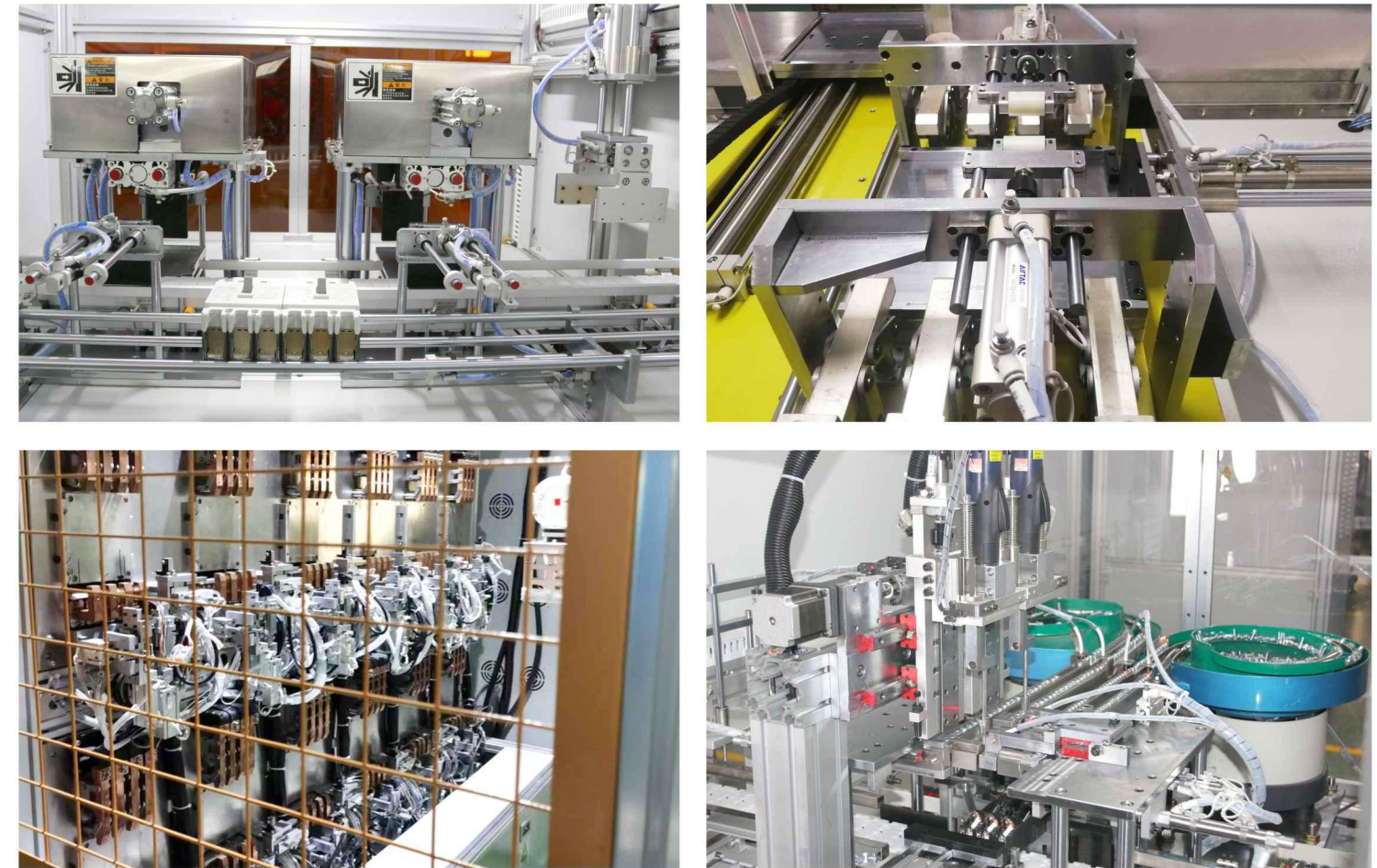
- 1, equipment input voltage: 380V ± 10%, 50Hz; ± 1Hz;
- 2 · Equipment compatibility: customised according to product drawings.
- 3, equipment production beat: customised according to customer requirements.
- 4 · Different products can be switched by one key or swept code to switch production.
- 5 · Assembly method: manual assembly, robot automatic assembly two kinds can be optional.
- 6 · Equipment fixture can be customised according to the product model.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display function.
- 8, Chinese and English version of the two operating systems.
- 9 · All core parts are imported from Italy, Sweden, Germany, Japan, the United States, Taiwan and other countries and regions.
- 10 · Equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · It has independent independent intellectual property rights.

## Low-voltage magnetron switch automatic assembly and testing production line



### PRODUCTION LINE TECHNICAL PARAMETERS

1. Equipment input voltage 380V ± 10%, 50Hz; ± 1Hz;
2. Equipment compatibility: Switching production of 125 series, 250 series (3P/3P+N), 400 series (3P/3P+N), and 630 series (3P/3P+N) products.
3. Equipment production rhythm: 30 seconds per unit.
4. Assembly method: manual replenishment and automatic assembly.
5. The equipment fixtures can be customized according to the product model.
6. The equipment has alarm display functions such as fault alarm and pressure monitoring.
7. There are two operating systems available: Chinese and English.
8. All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, the United States, Taiwan, etc.
9. The equipment can be equipped with functions such as Smart Energy Analysis and Energy Conservation Management System and Smart Equipment Service Big data Cloud Platform.
10. Having independent and independent intellectual property rights.



### INTRODUCTION TO PRODUCTION LINE FUNCTIONS

With product base AGV automatic loading, robot automatic gripping, CCD vision automatic detection, magnetic control mechanism automatic loading, robot automatic assembly, CCD vision automatic detection, automatic screw locking, automatic loading of the switch indicator parts, automatic robot automatic assembly, CCD vision automatic detection, automatic screw locking, automatic mechanical grinding, automatic detection of the circuit resistance, automatic voltage testing, automatic loading of the upper cover part. Automatic loading, automatic robot assembly, automatic CCD vision detection, automatic screw locking, automatic assembly of the top cover and base, automatic screw locking, automatic laser marking two-dimensional code, automatic CCD vision detection, automatic configuration of software engineering, automatic detection, product information writing/communication/hardware function detection, automatic terminal connection, automatic switching of dialling keys, automatic CCD vision detection, automatic detection of four-quadrant power metering, Current calibration, voltage calibration, active power, reactive power, apparent power, power factor, phase, frequency, harmonics, Bluetooth, over-voltage, under-voltage, voltage loss, timing, RS485 communication, leakage current detection, leakage current detection, short-circuit short-delay detection, short-circuit instantaneous detection, backup protection detection, automatic locking of terminal board screws, automatic laser marking, CCD vision auto-detection, automatic reading Two-dimensional code, qualified or unqualified distinction, automatic packaging, automatic palletising, AGV logistics, lack of material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters of any recipe, intelligent energy analysis and energy-saving management system, intelligent equipment services, big data cloud platform and other functions.

## Intelligent control cabinet automatic assembly and testing flexible production line



## INTRODUCTION TO PRODUCTION LINE FUNCTIONS

It has the functions of automatic loading of products, automatic allocation of products to each station, automatic assembly of robots, automatic inspection, automatic locking of screws by robots, automatic inspection, automatic discharging, qualified or unqualified differentiation, packaging, palletising, AGV logistics, lack of material alarm and other processes such as assembly, on-line inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, networking of the MES system with the ERP system, parameter arbitrary recipe, intelligent energy analysis and energy-saving management system, and the cloud platform of big data of intelligent equipment service.



## PRODUCTION LINE TECHNICAL PARAMETERS

- 1, equipment input voltage: 380V ± 10%, 50Hz; ± 1Hz;
- 2 · Equipment compatibility: customised according to product drawings.
- 3, equipment production beat: customised according to customer requirements.
- 4 · Different products can be switched by one key or swept code to switch production.
- 5 · Assembly method: manual assembly, robot automatic assembly two kinds can be optional.
- 6 · Equipment fixture can be customised according to the product model.
- 7 · Equipment with fault alarm, pressure monitoring and other alarm display function.
- 8, Chinese and English version of the two operating systems.
- 9 · All core parts are imported from Italy, Sweden, Germany, Japan, the United States, Taiwan and other countries and regions.
- 10 · Equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 11 · It has independent independent intellectual property rights.





## Low voltage electrical laboratory testing equipment



- MCCB Moulded Case Circuit Breaker Manual Instantaneous Testing Equipment
- MCCB Moulded Case Circuit Breaker Manual Time-Delay Testing Equipment
- MCCB Mechanical Life Testing Equipment for Moulded Case Circuit Breakers
- MCCB standard long-delay testing equipment for molded-case circuit breakers
- MCCB intelligent reclosing circuit breaker standard long-delay testing equipment
- MCCB intelligent reclosing circuit breaker aging testing equipment
- MCCB intelligent reclosing circuit breaker transient testing equipment
- MCCB intelligent reclosing circuit breaker characteristics testing equipment
- MCCB intelligent reclosing circuit breaker delay testing equipment
- MCCB Moulded Case Circuit Breaker Electrical Life Testing Equipment
- MCB miniature circuit breaker manual instantaneous testing equipment
- MCB Miniature Circuit Breaker Manual Delay Testing Equipment
- MCB miniature circuit breaker mechanical life testing equipment
- MCB Miniature Circuit Breaker Standard Long Delay Testing Equipment
- MCB miniature earth leakage circuit breaker aging testing equipment
- MCB miniature circuit breaker electrical life testing equipment
- MCB miniature circuit breaker temperature rise, power consumption testing equipment
- MCB miniature circuit breaker high and low temperature testing equipment

## Low voltage electrical laboratory testing equipment



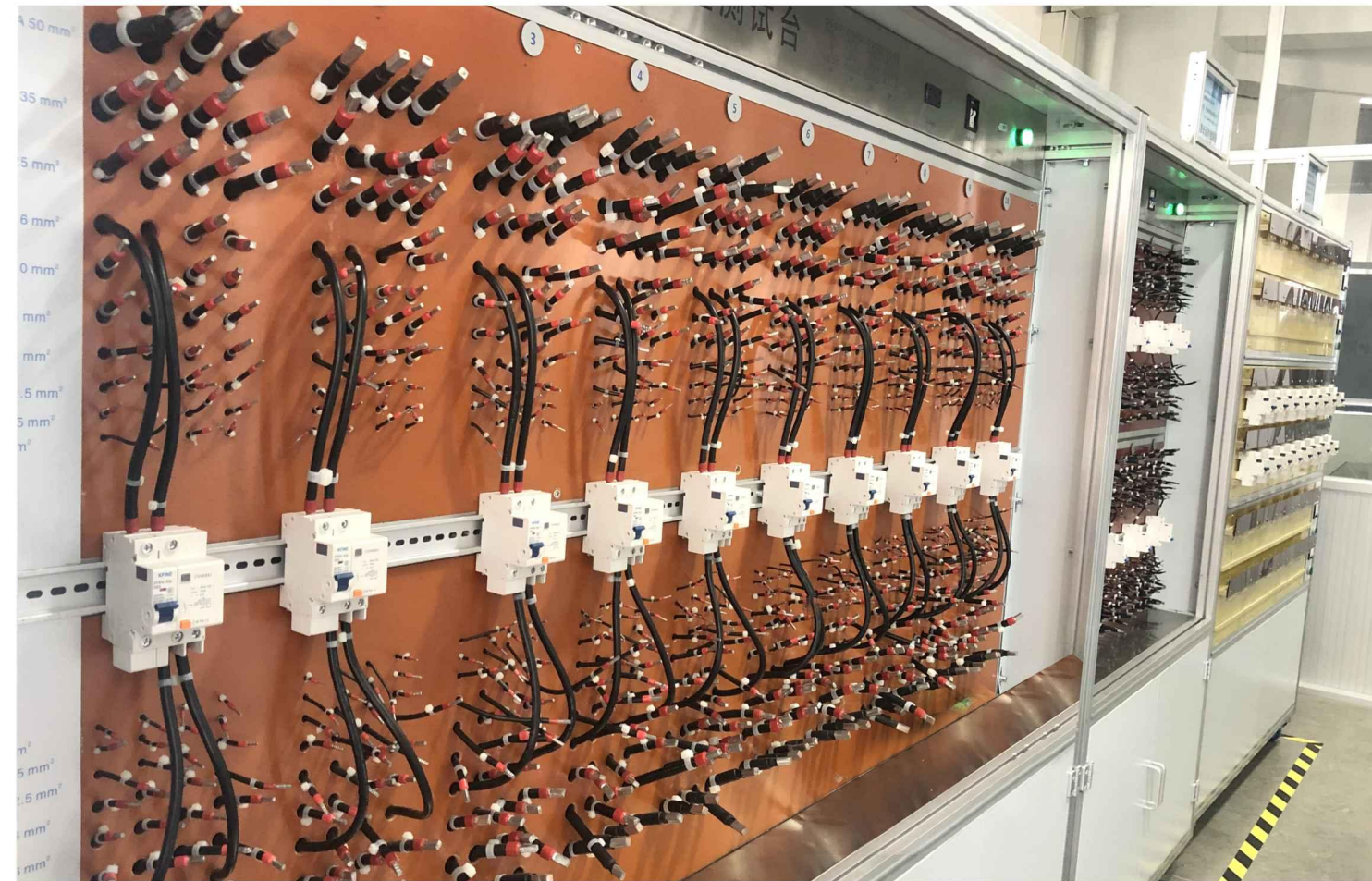
### EQUIPMENT FUNCTION INTRODUCTION

Customizable number of stations, 63A~800A compatible, robot loading/unloading/manual loading, barcode recognition, defective product display, defective product monitoring data, arbitrary setting of testing times, arbitrary setting of load current, arbitrary setting of load voltage, arbitrary setting of interval time, arbitrary recipe of parameters, automatic statistics of passing rate, total number of tests, number of qualified products, number of unqualified products, OEE data analysis, automatic pressure monitoring, fault alarm type, fault alarm history record, automatic fault stop, online monitoring, real-time monitoring, quality traceability, component life monitoring, data acquisition, data storage, data printing, network remote monitoring, wireless start, GPRS/GSM network remote server data acquisition and centralised management, intelligent energy analysis and energy saving management system, intelligent equipment service Big data cloud platform and other functions.



**081**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



### EQUIPMENT TECHNICAL PARAMETERS

- 1 - Input voltage of the equipment is 380V±10%, 50Hz; ±1Hz;
- 2 - Different shell frame products and different models can be switched manually or with one key or sweeping code; switching different specification products requires manual change/adjustment of moulds or fixtures.
- 3 - Testing and testing method: manual clamping and automatic testing.
- 4 - The test fixture of the equipment can be customized according to the product type.
- 5 - Equipment with fault alarm, pressure monitoring and other alarm display functions.
- 6 - Two kinds of operating systems: Chinese and English.
- 7 - All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and China Taiwan.
- 8 - The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 9 - With independent independent intellectual property rights.



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**082**





## Specialised welding equipment



MCB miniature circuit breaker magnetic assembly / coil assembly automatic welding equipment

MCB miniature circuit breaker double gold assembly / thermal component assembly automatic welding equipment

MCCB Moulded Case Circuit Breaker Automatic Welding Equipment

ACB frame circuit breaker automatic welding equipment

Automatic welding equipment for surge protector module

Automatic welding equipment for static contacts of AC contactors

Wall switch silver point automatic welding equipment

Robot + automatic argon arc welding equipment

Automatic tin soldering equipment for circuit boards

Automatic high frequency induction welding equipment

Automatic friction welding equipment

Automatic laser welding equipment for lithium battery top cover



## Specialised welding equipment



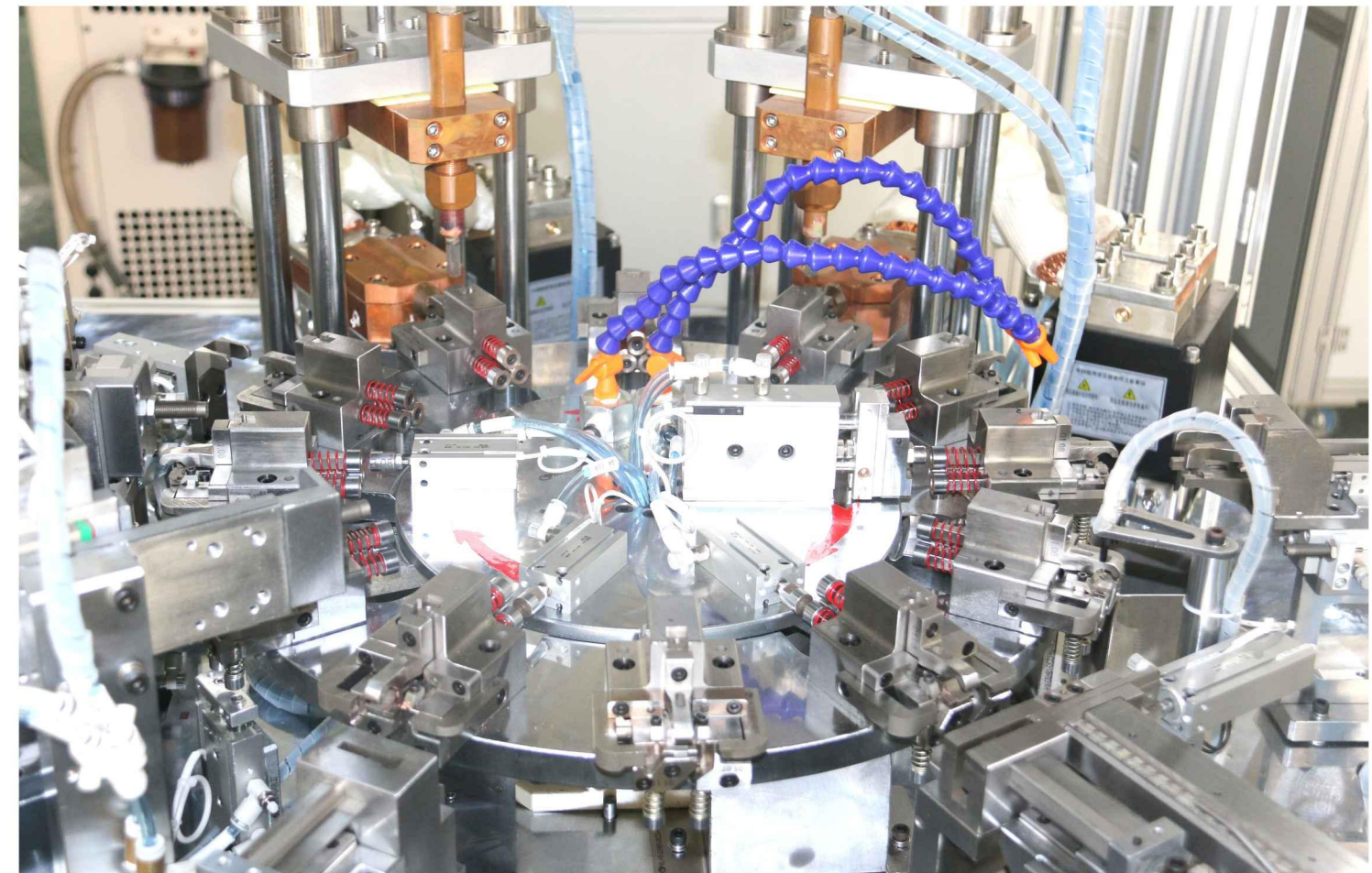
## EQUIPMENT FUNCTION INTRODUCTION

With automatic assembly, filling welding auxiliary materials, testing, welding, defective product differentiation, packaging, palletizing, AGV logistics, lack of material alarm and other processes of assembly, online testing, welding, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big Data cloud platform and other functions.



**085**

Automatic production line equipment for high and low voltage electrical components  
New energy components automatic production line equipment



## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production beat: can be customized according to customer requirements.
3. Welding mode: according to the different production process and requirements of the product, resistance welding, medium frequency welding, high frequency induction welding, laser welding, gas protection welding, tin welding, friction welding, ultrasonic welding, etc. can be used to achieve.
4. Welding process: manual assembly automatic welding or automatic assembly automatic welding two modes can be optional.
5. The equipment fixture can be customized according to the product model.
6. Equipment with fault alarm, pressure monitoring and other alarm display functions.
7. Two kinds of operating systems, Chinese and English.
8. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
9. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
10. With independent independent intellectual property rights.

Actions speak louder than words

Driving digital transformation and upgrading in the manufacturing industry 4.0

**086**





## Special equipment for laser applications



Miniature circuit breaker 2D code automatic laser marking equipment

Miniature circuit breaker automatic laser marking equipment

Automatic Laser Marking Equipment for Plastic Case Circuit Breakers

Automatic laser marking equipment for time-controlled switches

Automatic laser marking equipment for fuse breakers

Automatic laser marking equipment for surge protectors

Automatic laser marking equipment for AC contactors

Automatic laser marking equipment for double power automatic transfer switch

Automatic laser marking equipment for wall switches

Automatic laser marking equipment for disconnect switches

Automatic laser marking equipment for load disconnect switches

Automatic laser marking equipment for photovoltaic DC isolation switches

Automatic laser marking equipment for lithium battery top cover QR code



Desktop laser marking equipment

Portable Laser Marking Equipment

Visual Laser Marking Equipment



## Special equipment for laser applications



## EQUIPMENT FUNCTION INTRODUCTION

With automatic assembly, filling welding auxiliary materials, testing, welding, marking, defective product differentiation, packaging, palletizing, AGV logistics, missing material alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production beat: can be customized according to customer requirements.
3. Laser processing method: according to the different production process and requirements of the product, it can be realized by fiber laser marking machine, ultraviolet laser marking machine, femtosecond laser marking machine, laser welding, etc.
4. Laser processing technology: manual assembly automatic marking or welding, automatic assembly automatic marking or welding two modes can be optional.
5. The equipment fixture can be customized according to the product model.
6. The equipment has alarm display functions such as fault alarm and pressure monitoring.
7. Two kinds of operating systems, Chinese and English.
8. All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
9. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
10. With independent independent intellectual property rights.



## Special equipment for robotic applications



MCB miniature circuit breaker robot + automatic plastic housing loading equipment

MCB Miniature Circuit Breaker Robot + Automatic Delay Testing Equipment

MCB miniature circuit breaker robot + automatic electronic integrated testing equipment

MCB Miniature Circuit Breaker Robot + Automatic Laser Marking Equipment

MCB Miniature Circuit Breaker Robot + Automatic Palletizing Equipment

MCCB Moulded Case Circuit Breaker Robot + Automatic Plastic Case Loading Equipment

MCCB Moulded Case Circuit Breaker Robot + Automatic Delay Inspection Equipment

MCCB Moulded Case Circuit Breaker Robot + Automatic Screwing Equipment

MCCB Moulded Case Circuit Breaker Robot + Automatic Palletizing Equipment

IOT intelligent circuit breaker robot + automatic aging inspection equipment

Leakage circuit breaker robot + automatic aging inspection equipment

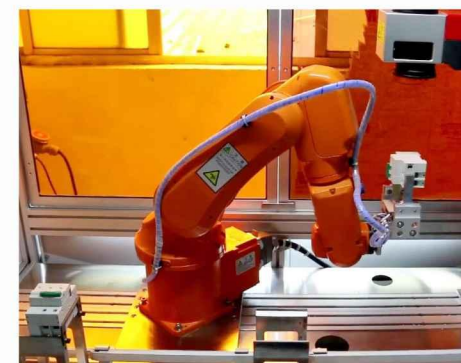
Photovoltaic circuit breaker robot + automatic aging inspection equipment

Robot + automatic loading and unloading equipment for punching machines

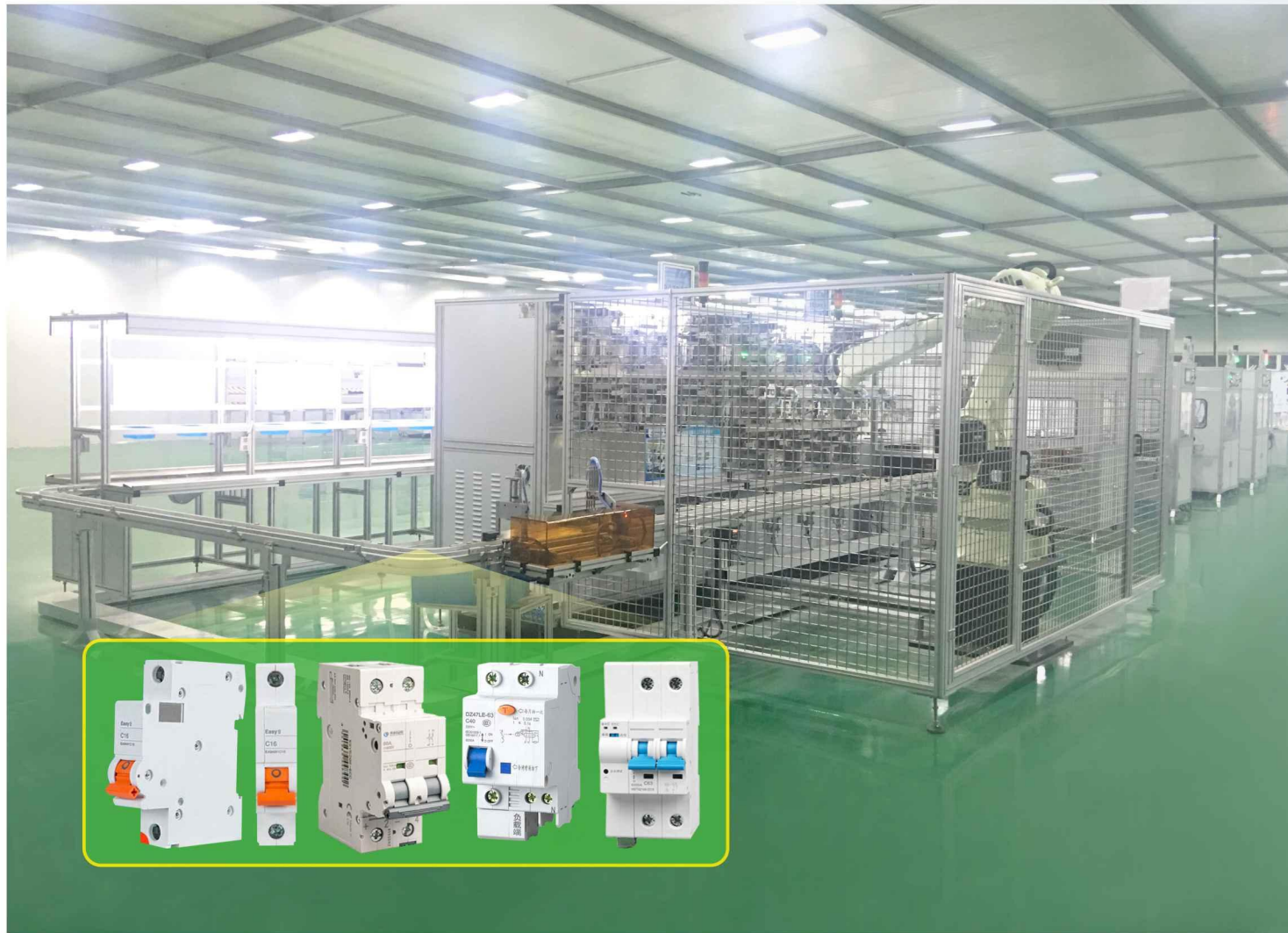
Robot + CNC machine automatic loading and unloading equipment

Robot + automatic loading and unloading equipment for bending machines

Robot + automatic loading and unloading equipment

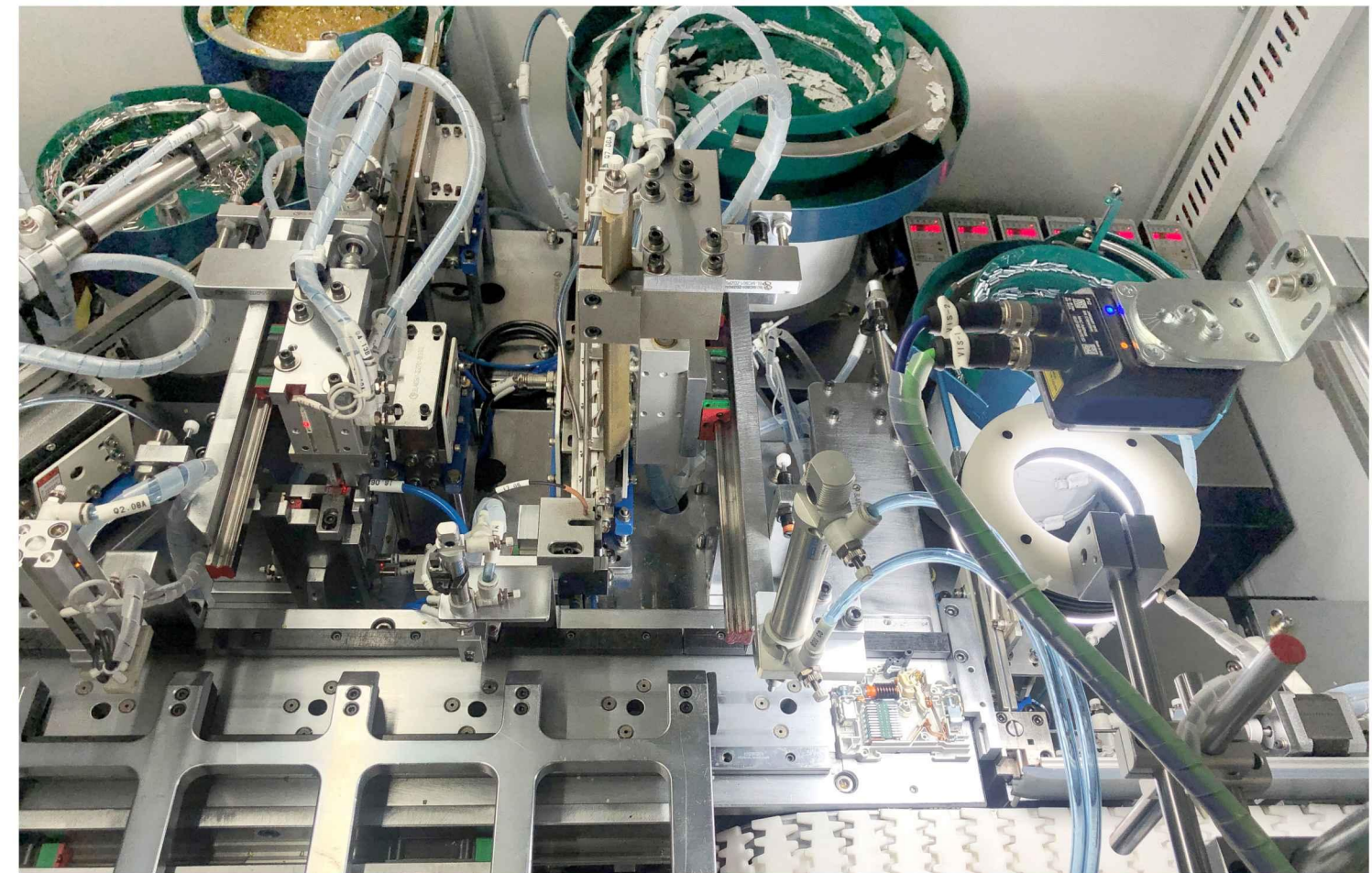


## Special equipment for robotic applications



## EQUIPMENT FUNCTION INTRODUCTION

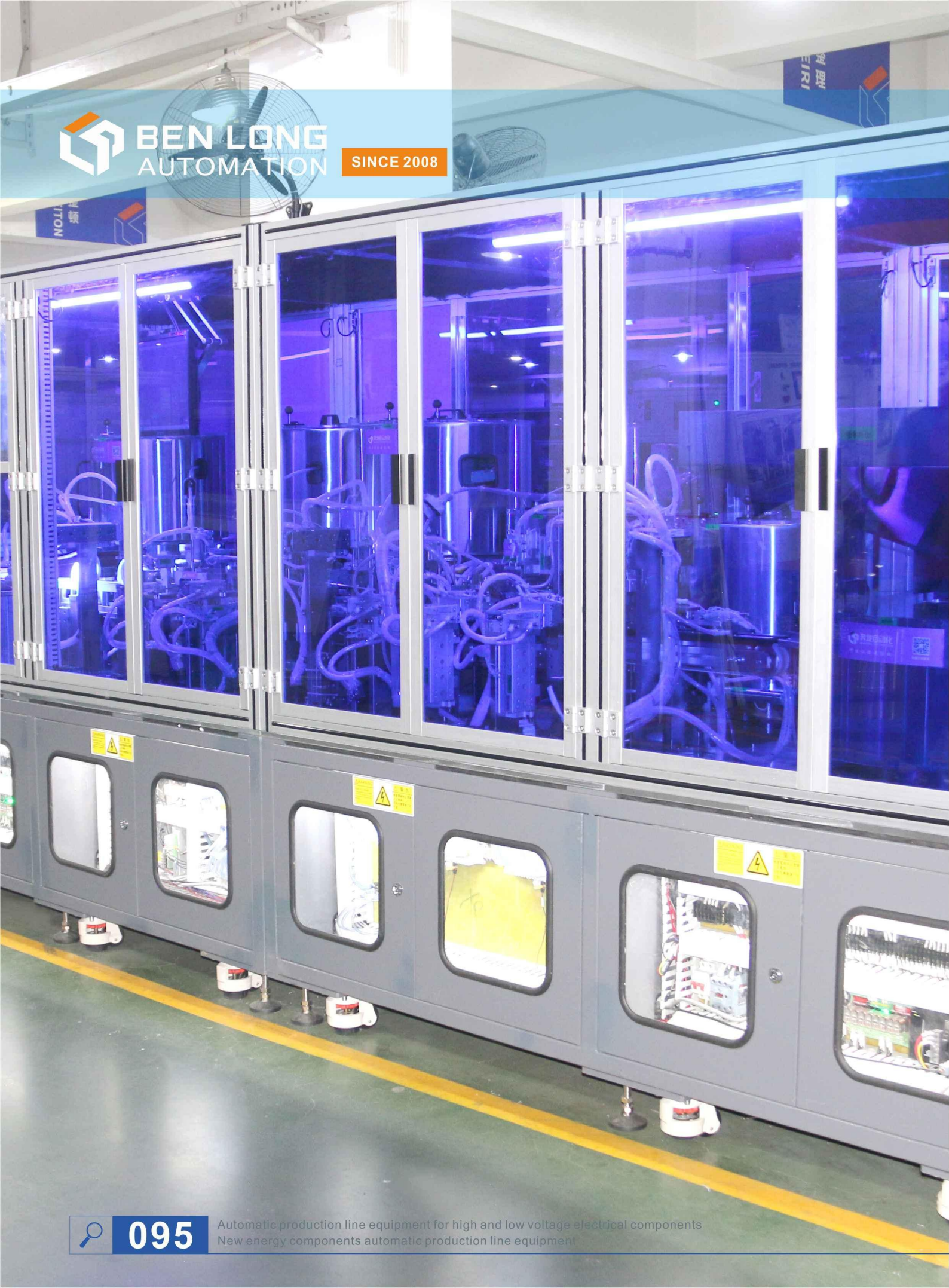
With automatic assembly, loading and unloading, inspection, defective product differentiation, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production beat: can be customized according to customer requirements.
3. Robot option: according to the different production process and requirements of the product, it can be realized by using three-axis robot, four-axis robot, five-axis robot, six-axis robot, six-axis robot + ground rail, two-arm robot, collaborative robot, etc.
4. The equipment fixture can be customized according to the product type.
5. The equipment has alarm display functions such as fault alarm and pressure monitoring.
6. Two kinds of operating systems, Chinese and English.
7. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
8. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
9. With independent intellectual property rights.





## Specialised equipment for vision applications



MCB Miniature Circuit Breaker Automatic Assembly and Inspection Equipment

MCB Miniature Circuit Breaker Visual Inspection Equipment

MCB miniature circuit breaker automatic riveting inspection equipment

MCB miniature circuit breaker automatic riveting inspection equipment

MCCB automatic laser, pad printing and testing equipment for plastic case circuit breakers

MCCB plastic case circuit breaker automatic pad printing inspection equipment

Silver dot positive and negative automatic testing equipment



Automatic coil stripping inspection equipment

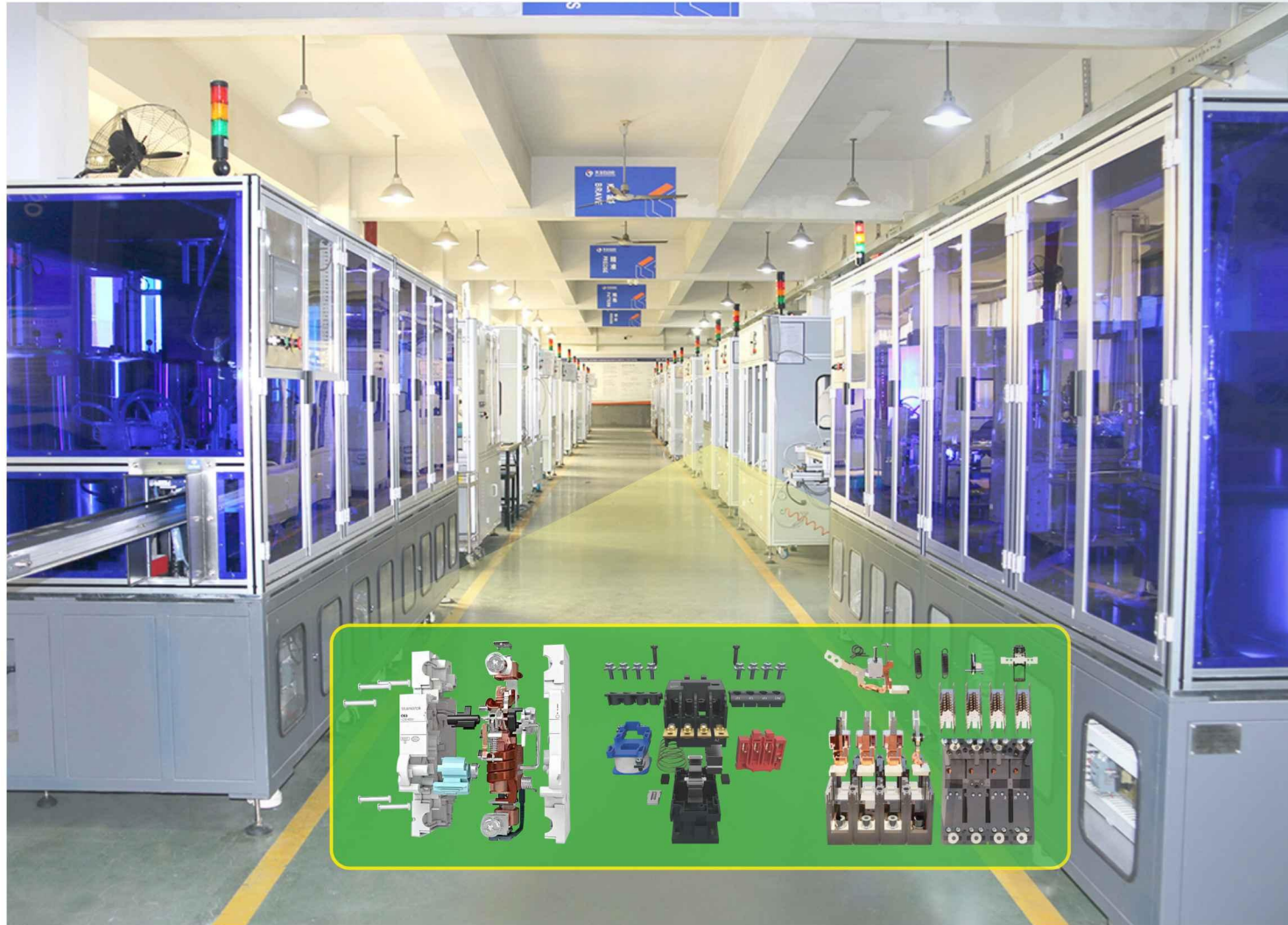
Automatic core insertion unit-visual inspection equipment

Automatic snap-fit unit-visual inspection equipment

Silver point and static contact automatic welding equipment



## Specialised equipment for vision applications



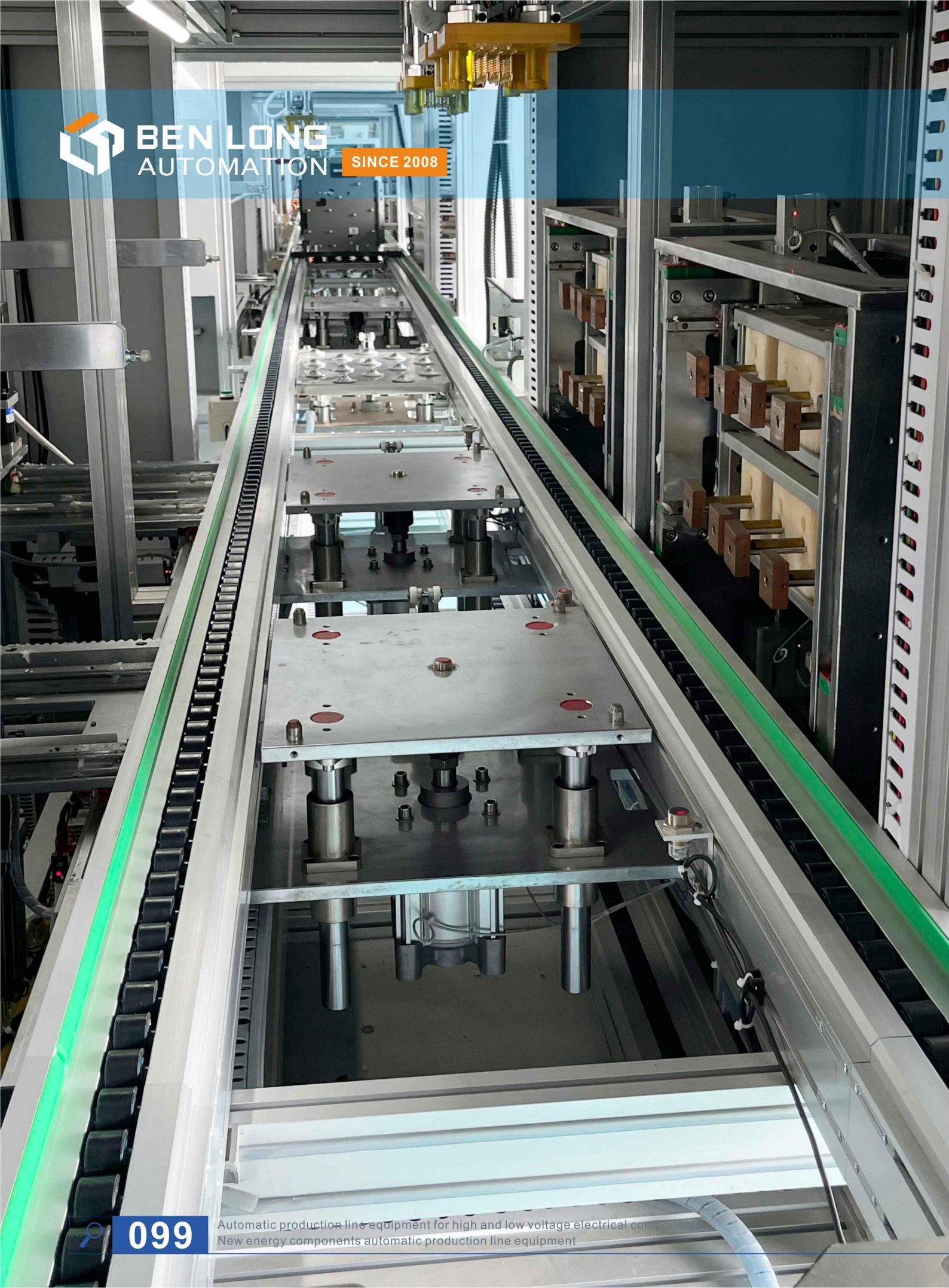
## EQUIPMENT FUNCTION INTRODUCTION

Assembly with automatic detection of presence or absence, dimensional inspection, defective product differentiation, shortage alarm and other processes, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system with ERP system networking, parameter arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment service big Data cloud platform and other functions.



## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production beat: can be customized according to customer requirements.
3. Visual inspection option: according to the different production process and requirements of the product, it can be achieved by high precision vision, Robot + high-precision vision, etc.
4. The equipment fixture can be customized according to the product type.
5. The equipment has a fault alarm, pressure monitoring and other alarm display functions.
6. Two kinds of operating systems, Chinese and English.
7. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
8. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
9. With independent independent intellectual property rights.



## Special equipment for logistics conveying

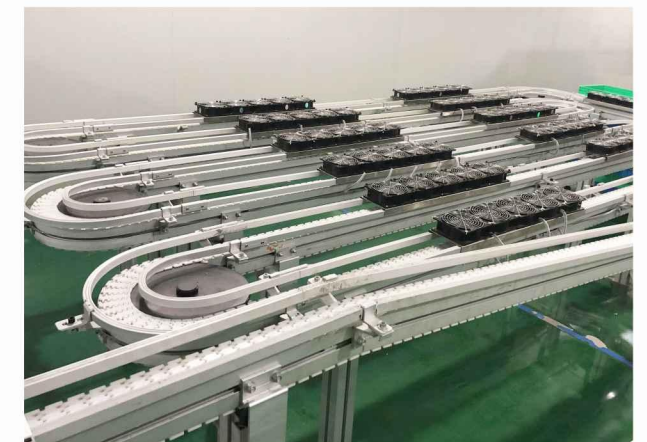
Horizontal Circulation Conveyors

Horizontal conveying lines

Spiral logistics conveying equipment

Multi-speed chain logistics conveying equipment

Flat belt conveying lines / laser marking machine conveying lines



## Special equipment for logistics conveying



## EQUIPMENT FUNCTION INTRODUCTION

With automatic logistics, conveying, lifting, circulation, defective product differentiation, missing material alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.

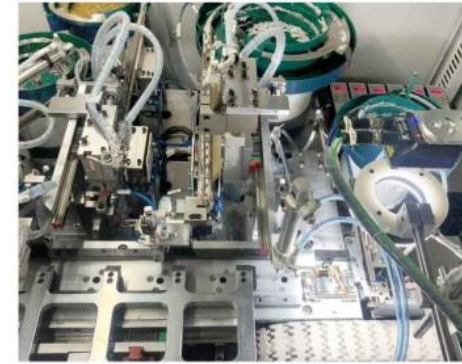


## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and logistics speed: can be customized according to customer requirements.
3. Logistics conveying option: according to the different production process and requirements of the product, it can be realized by using flat belt conveying line, chain plate conveying line, timespeed chain conveying line, elevator + conveying line, circulation conveying line, etc.
4. The size and load of the conveying line can be customized according to the product type.
5. The equipment has alarm display functions such as fault alarm and pressure monitoring.
6. Two kinds of operating systems, Chinese and English.
7. All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
8. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
9. With independent independent intellectual property rights.



## Automated assembly and special equipment



Automatic assembly of coil bobbins + pin assembly equipment

GV2 automatic assembly equipment for electromagnetic coil assemblies

Magnetic ring automatic inspection equipment

Automatic assembly and testing equipment for solenoid valve spool

Automatic assembly of wiring posts

Automatic assembly of adjustment screws

Automatic assembly of iron core components

Silver point automatic assembly and riveting equipment

Automatic assembly of terminal block assemblies

Automatic assembly of wiring frame assembly equipment

Automatic loading and unloading equipment for horizontal injection moulding machine inserts

Automatic loading and unloading of electrodes on vertical injection moulding machines

Injection moulding machine loading and unloading servo manipulator

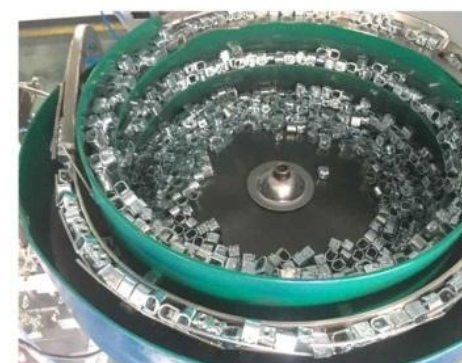
Automatic comprehensive testing equipment for electrical fire protection current limiting protectors

Automatic assembly equipment for AC contactor accessories

Photovoltaic DC isolation switch automatic pad printing and laser marking unit

Automatic laser marking equipment for shoe toe

New energy photovoltaic connector automatic assembly equipment

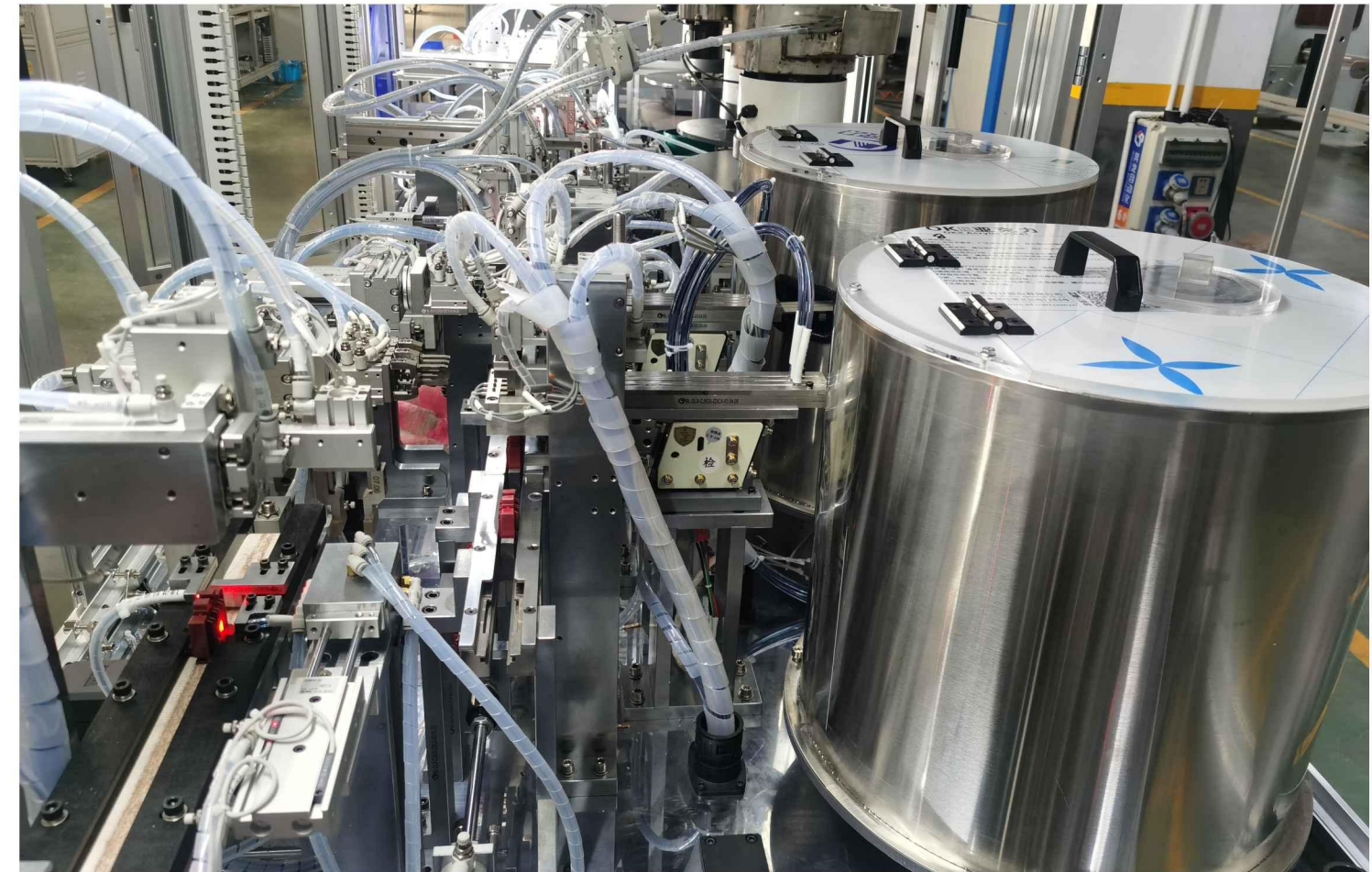


## Automated assembly and special equipment



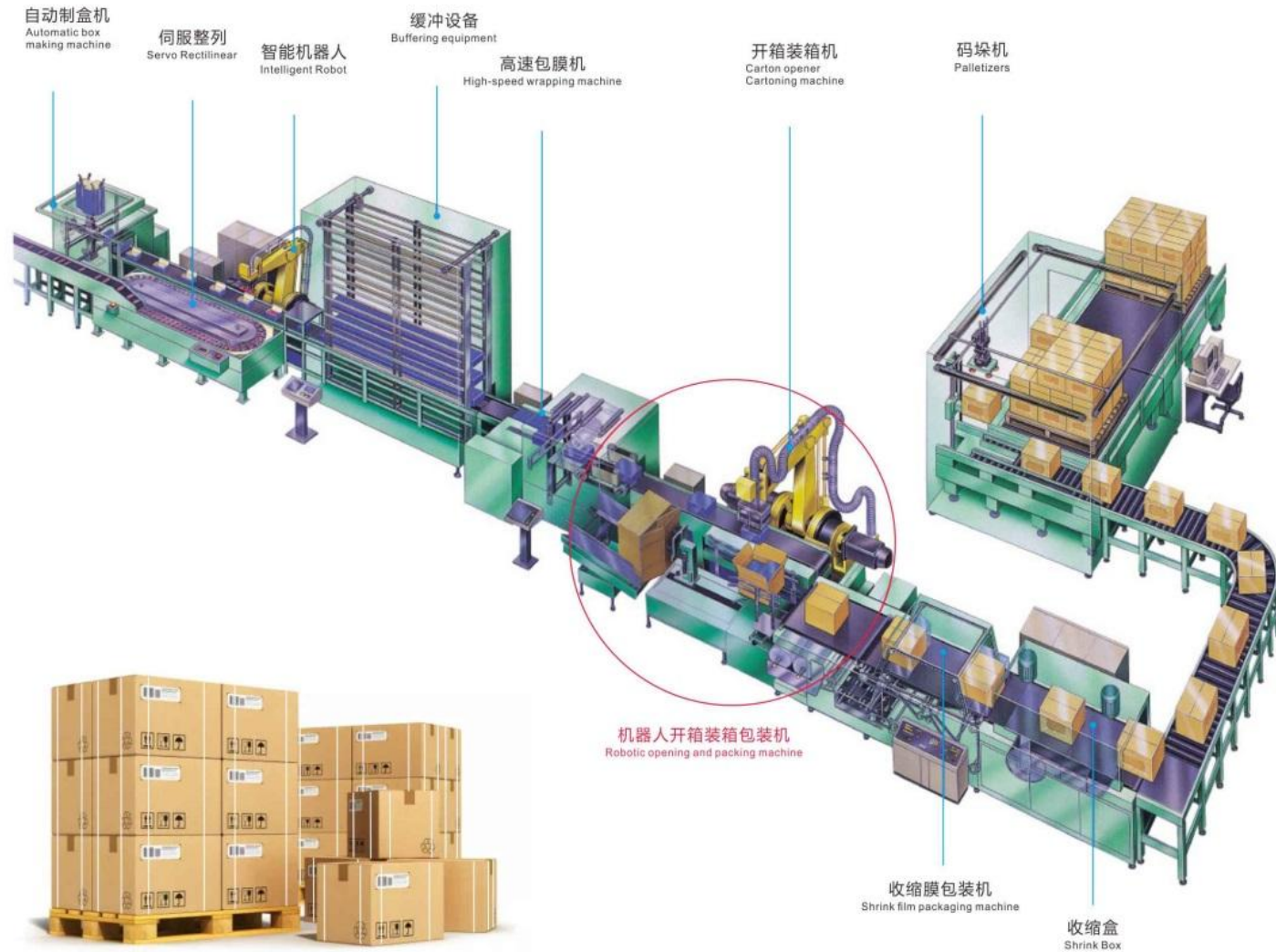
### EQUIPMENT FUNCTION INTRODUCTION

With automatic pallet feeding, assembly, testing, defective product differentiation, packaging, palletizing, AGV logistics, shortage alarm and other processes of assembly, online testing, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, parameters arbitrary recipe, intelligent energy analysis and energy saving management system, intelligent equipment services big data cloud platform and other functions.



### EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production efficiency: can be customized according to customer requirements.
3. Assembly mode: according to the different production process and requirements of the product, the automatic assembly of the product can be realized.
4. Equipment fixture can be customized according to the product model.
5. The equipment has alarm display functions such as fault alarm and pressure monitoring.
6. Two kinds of operating systems, Chinese and English.
7. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
8. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
9. With independent independent intellectual property rights.



BL50E Semi-Automatic Vertical Back Seal Packaging Machine

Fully Automatic Vertical Back Seal Packaging Machine

Semi-Automatic Bag Feeding Packaging Machine

Automatic Bag Feeding Packaging Machine

Automatic Bag Feeding Packaging Machine

Tea Automatic Packaging Machine

FMCG Automatic Packaging Machine

450L Automatic Sealing and Cutting Machine

BS4020L Shrink Machine

FXJ-6050 Top and Bottom Drive Tape Sealing Machine

Automatic strapping machine without drum

BL-KX Automatic Carton Opener

BL-ZG Automatic Lid Folding Machine

BL-JBFX Automatic Corner Edge Sealing Machine

Automatic Cartoner

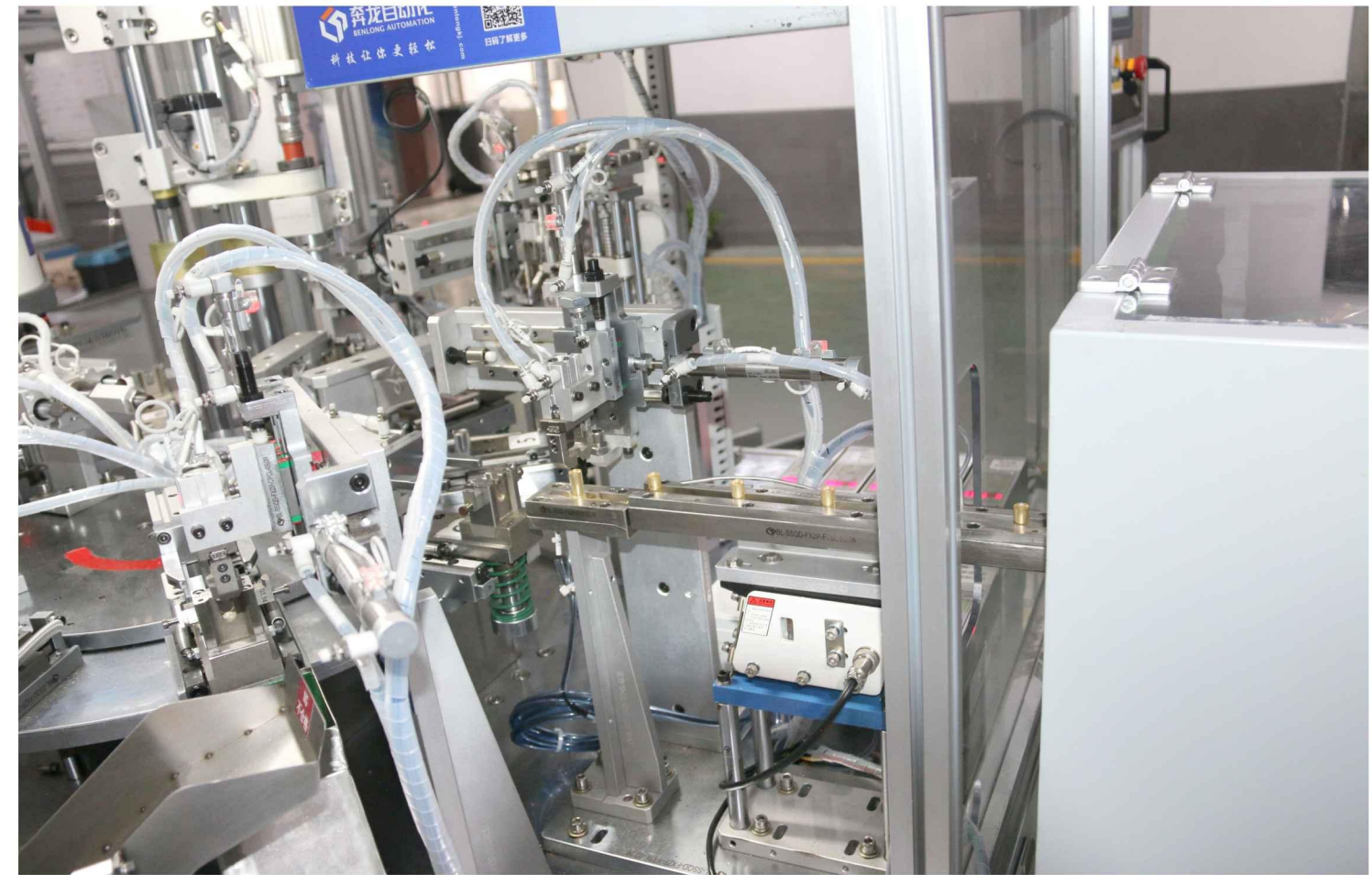


## Automatic assembly and testing equipment for solenoid valve spools



### EQUIPMENT FUNCTION INTRODUCTION

With automatic material supply, CCD detection, automatic combination assembly of valve bodies, hexagonal nuts, lace copper nuts, DC static cores, sealing rings, moving cores, spring parts, automatic unloading, defective product differentiation, counting, bagging, packaging, robot palletizing, AGV logistics and other processes of assembly, arbitrary setting of torque values, online monitoring, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system and ERP system networking, arbitrary formulation of parameters, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.

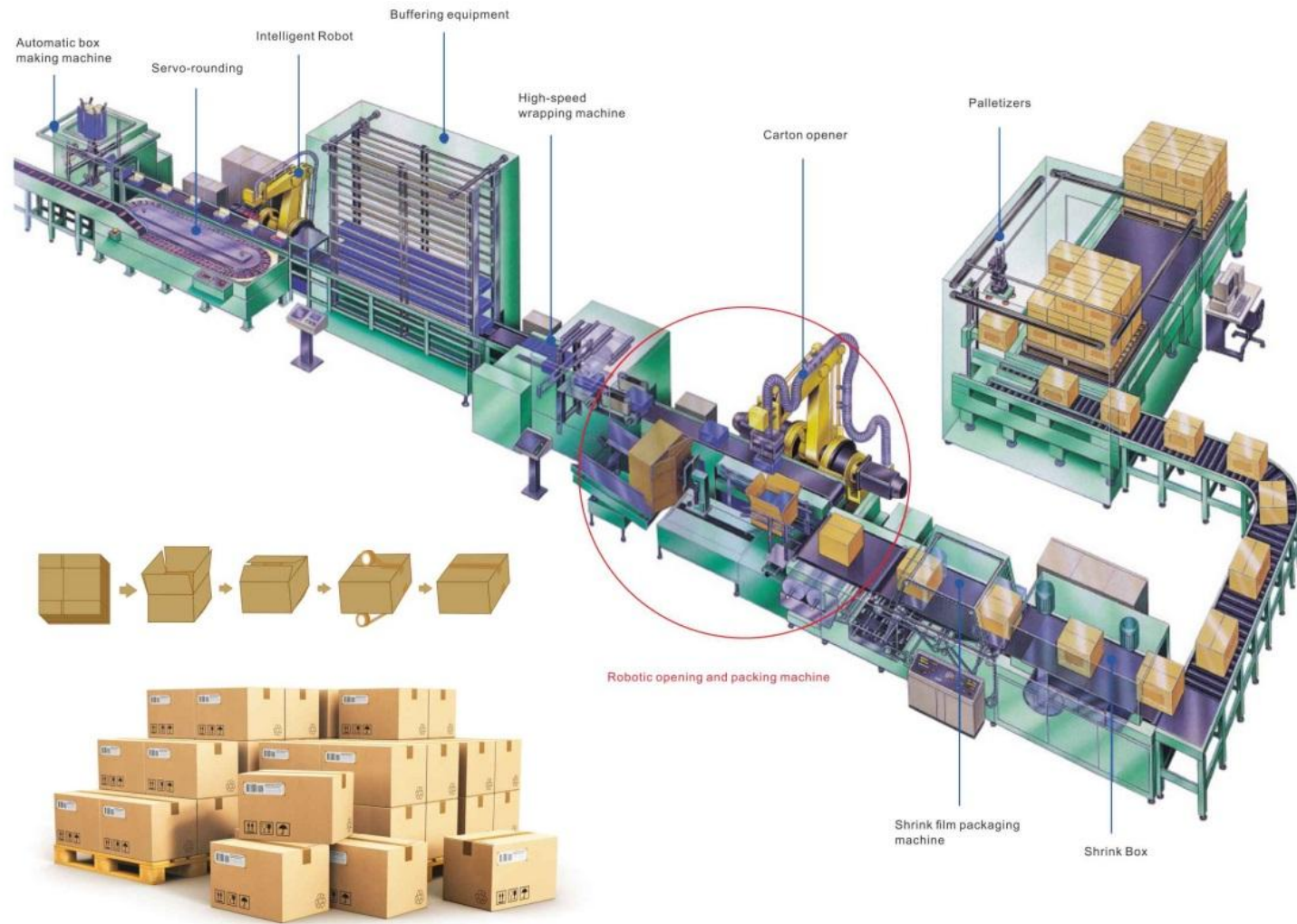


### EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility: one specification product.
3. Equipment production beat: 3 seconds/each.
4. The same shell frame product, different models can be switched with one key or sweeping code switching are available; different shell frame products need manual change of mould or fixture.
5. Assembly mode: manual replenishment, automatic assembly, automatic detection, automatic discharging.
6. The equipment has alarm display functions such as fault alarm and pressure monitoring.
7. Two kinds of operating systems, Chinese and English.
8. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
9. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
10. With independent independent intellectual property rights.



## Special equipment for robotic applications



## EQUIPMENT FUNCTION INTRODUCTION

With automatic logistics, sorting, folding inner boxes, loading inner boxes, labelling inner boxes, weighing, lidding inner boxes, opening outer boxes, loading outer boxes, lidding outer boxes, labelling outer boxes, sealing boxes, strapping, pallet feeding, palletizing, AGV logistics, shortage alarm and other processes of assembly, online inspection, real-time monitoring, quality traceability, barcode identification, component life monitoring, data storage, MES system networking with ERP system, parameter arbitrary formulation, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform and other functions.



## EQUIPMENT TECHNICAL PARAMETERS

1. Equipment input voltage 380V±10%, 50Hz; ±1Hz;
2. Equipment compatibility and production efficiency: can be customized according to customer requirements.
3. The same series of products, different models can be switched with one key or sweeping code switch; switching different series of products requires manual replacement of moulds or fixtures.
4. Packing method: man-machine combined with semi-automatic packaging, automatic packaging two can be optional.
5. Equipment fixture can be customized according to the product model.
6. Equipment with fault alarm, pressure monitoring and other alarm display functions.
7. Two kinds of operating systems: Chinese and English.
8. All core parts are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
9. The equipment can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
10. With independent independent intellectual property rights.



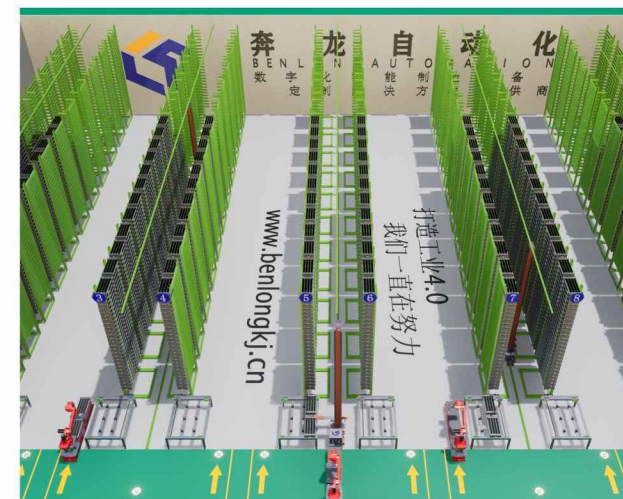
## MES Intelligent Manufacturing Production Process Execution System

MES Intelligent Manufacturing Production Process Execution System



## Intelligent warehousing

Intelligent warehousing



## MES Intelligent Manufacturing Production Process Execution System



## EQUIPMENT FUNCTION INTRODUCTION

It has functions such as online data monitoring of all processes of the automated production line, online status of equipment, real-time monitoring, quality traceability, barcode identification, life monitoring of key components, data storage, networking and communication docking with ERP or SAP system, arbitrary recipe of parameters, remote maintenance, intelligent energy analysis and energy saving management system, intelligent equipment service big data cloud platform, etc.

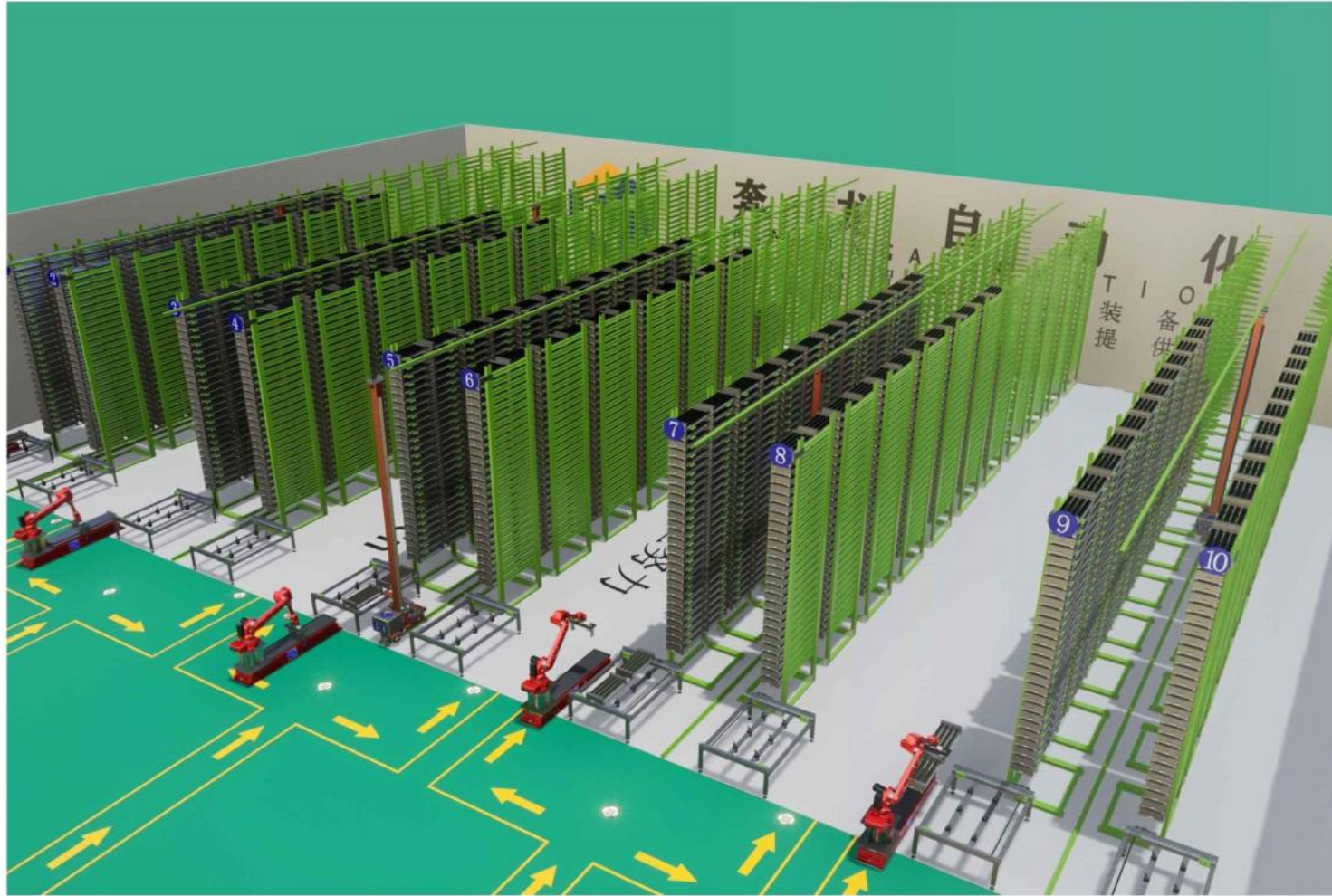


## EQUIPMENT TECHNICAL PARAMETERS

- 1、Device input voltage 220V±10%, 50Hz; ±1Hz
- 2、The system can be connected to ERP or SAP system network communication docking, customer can choose.
- 3、System can be customized according to the requirements of the demand side.
- 4、The system has double hard disk automatic backup and data printing function.
- 5、Two kinds of operating systems, Chinese and English.
- 6、All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 7、The system can be equipped with optional functions such as "Intelligent Energy Analysis and Energy Saving Management System" and "Intelligent Equipment Service Big Data Cloud Platform".
- 8、With independent independent intellectual property rights.

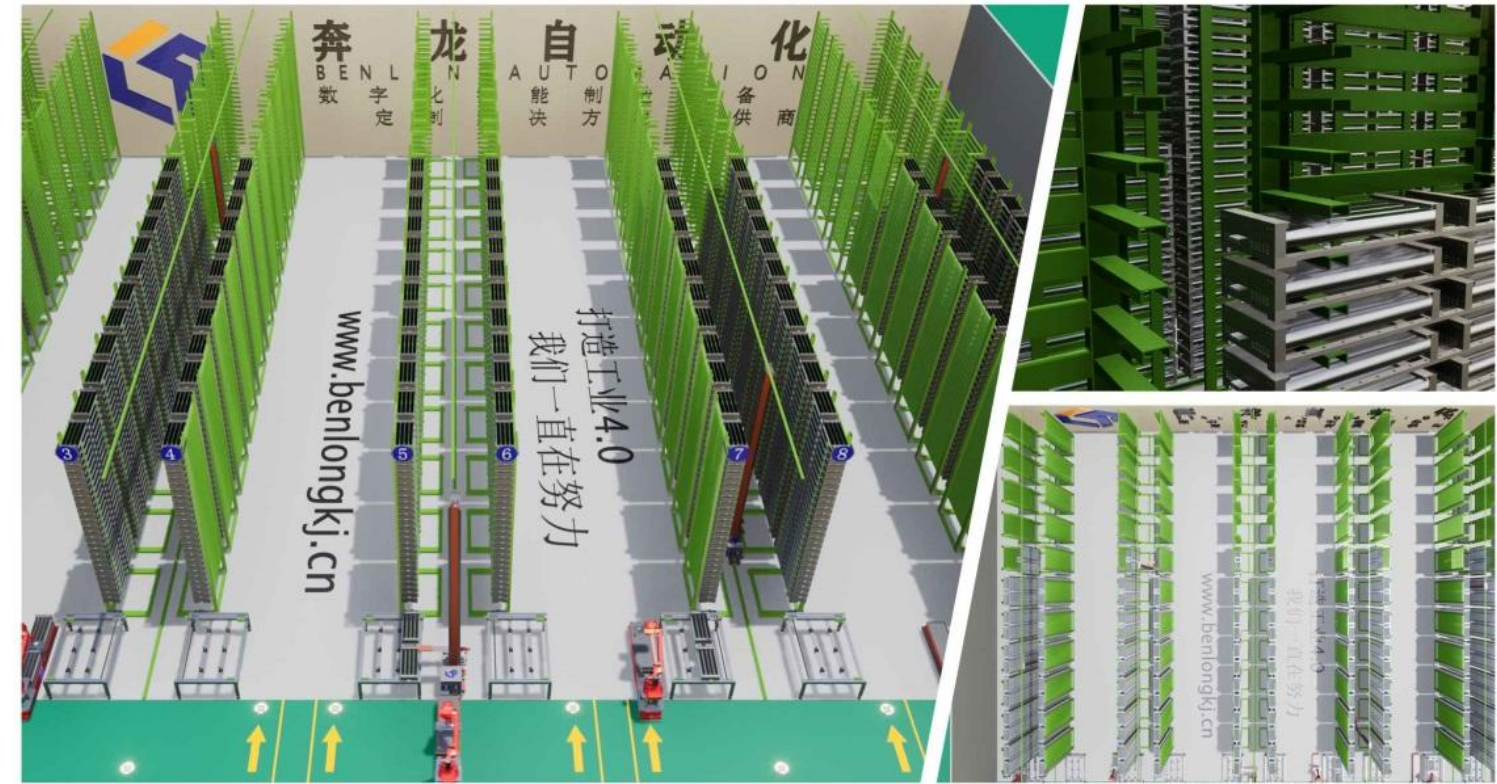


## Intelligent warehousing



## PRODUCTION LINE TECHNICAL PARAMETERS

- 1 · The system can be connected to ERP or SAP system for networking and communication, which is optional for customers.
- 2 · The system can be customized according to the requirements of the demander.
- 3 · The system has double hard disk automatic backup and data printing function.
- 4 · Two kinds of operating systems, Chinese and English.
- 5 · All core accessories are imported from different countries and regions such as Italy, Sweden, Germany, Japan, USA and Taiwan.
- 6 · The height of the shelves can reach 30m or even higher, reducing the land occupation area
- 7 · Automatic unmanned operation, reducing manpower costs
- 8 · Seamless data connection with ERP system and real-time intelligent production scheduling
- 9 · Eliminate the chaotic situation in the warehouse and reduce management difficulties
- 10 · Significantly improve the operational efficiency of goods access and delivery



## INTRODUCTION TO PRODUCTION LINE FUNCTIONS

Intelligent storage, also known as automated three-dimensional warehouse, logistics and warehousing in the emergence of new concepts, the use of intelligent warehouse equipment can achieve the rationalization of the upper levels of the warehouse, access automation, simplicity of operation: automated intelligent warehouse, is the current higher level of technology in the form of. System features: automation, information technology, intelligent and other production logistics, distribution, sorting, testing, packaging, handling, conveying, picking, inventory, labelling, storage and manufacturing information management of all materials between raw and auxiliary materials to finished products.

System functions: WMS manufacturing warehouse management system for the production manufacturing industry warehouse refinement management. Multi-warehouse management, intelligent inventory, strategy rules, performance management and other software modules with PDA, RFID, AGV, robot and other intelligent hardware, a comprehensive help to manufacturing warehousing digital upgrade. WCS warehouse control system is between the WMS system and the intelligent hardware system, which can coordinate the operation between various logistics equipment, provide execution guarantee and optimisation for the scheduling instructions of the upper system, and realise the integration, unified scheduling and monitoring of various equipment system interfaces.



Automation



Informatization



Modularization



Visualization



Customization



Flexibility



Cloud Computing



One-Click Switching



Remote maintenance



Data Acquisition

High-end intelligent equipment overall solutions



## FINE PACKAGING

Wooden box packaging is the use of wooden packaging containers to protect the goods packaged, wooden box packaging is initially for the convenience of transport and storage and a packaging product, for some in the transport and storage of easily damaged items with wooden packaging containers for reinforcement, so as to play a protective role.



Multi-layer protective film wrapping

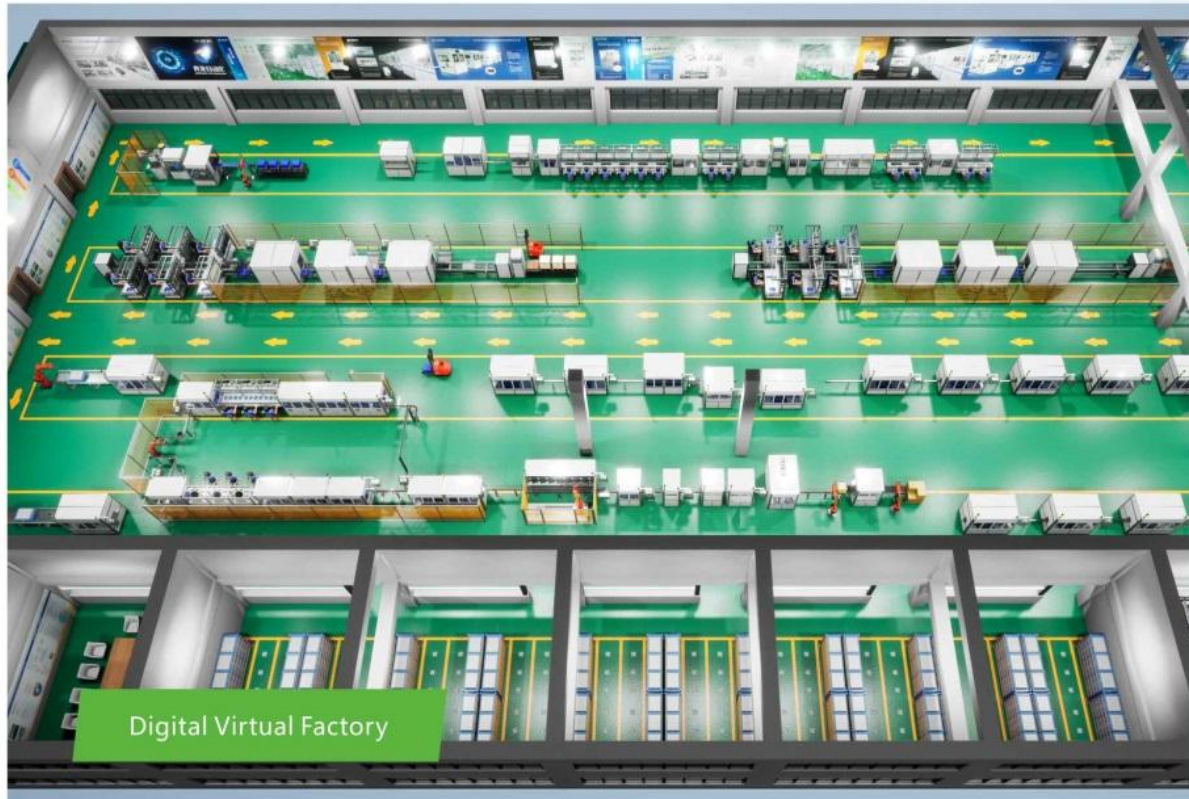
Air foam packaging containers



Solid wood crates custom packaging

Forklift truck loading and delivery





Ride the wind and break the waves Moving forward

# ABOUT BENLONG

Benlong Automation

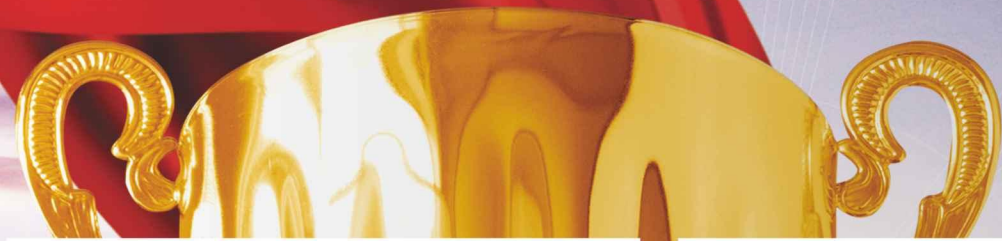
We are a group of passionate people who have come together with a common belief.



# Honors Qualifications

We start from a practical point of view, insist on quality control and innovation.

Through continuous efforts to obtain a number of authoritative certificates at home and abroad.



## Patent information



**41<sup>+</sup>**

Invention Patent Information



**102<sup>+</sup>**

Utility Model Patent Information



**26<sup>+</sup>**

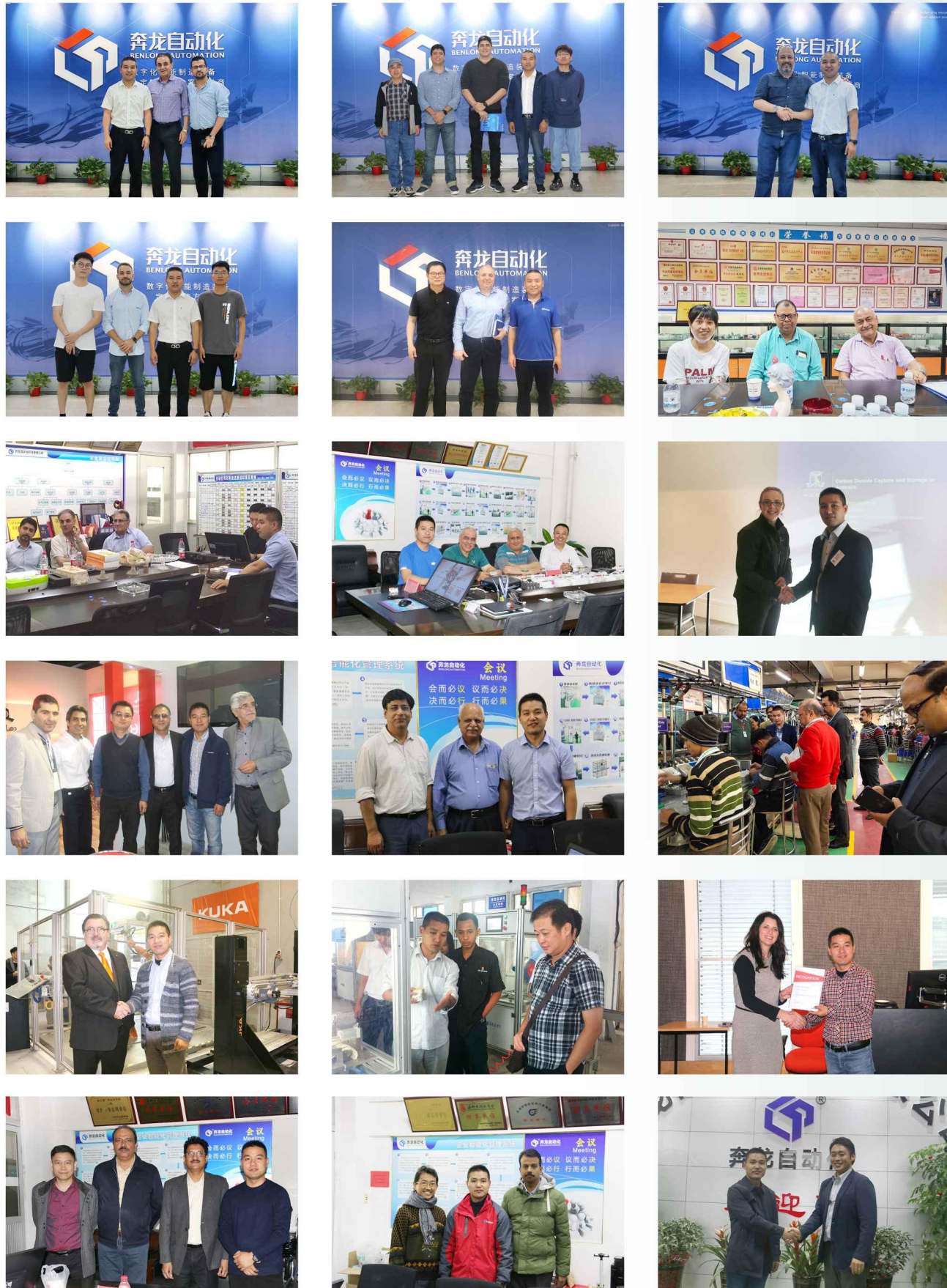
Software copyright information



**82<sup>+</sup>**

Trademark registration information

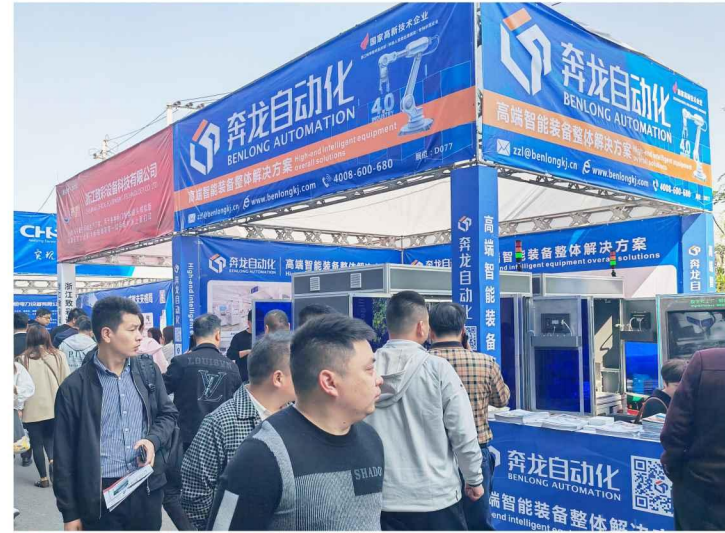




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