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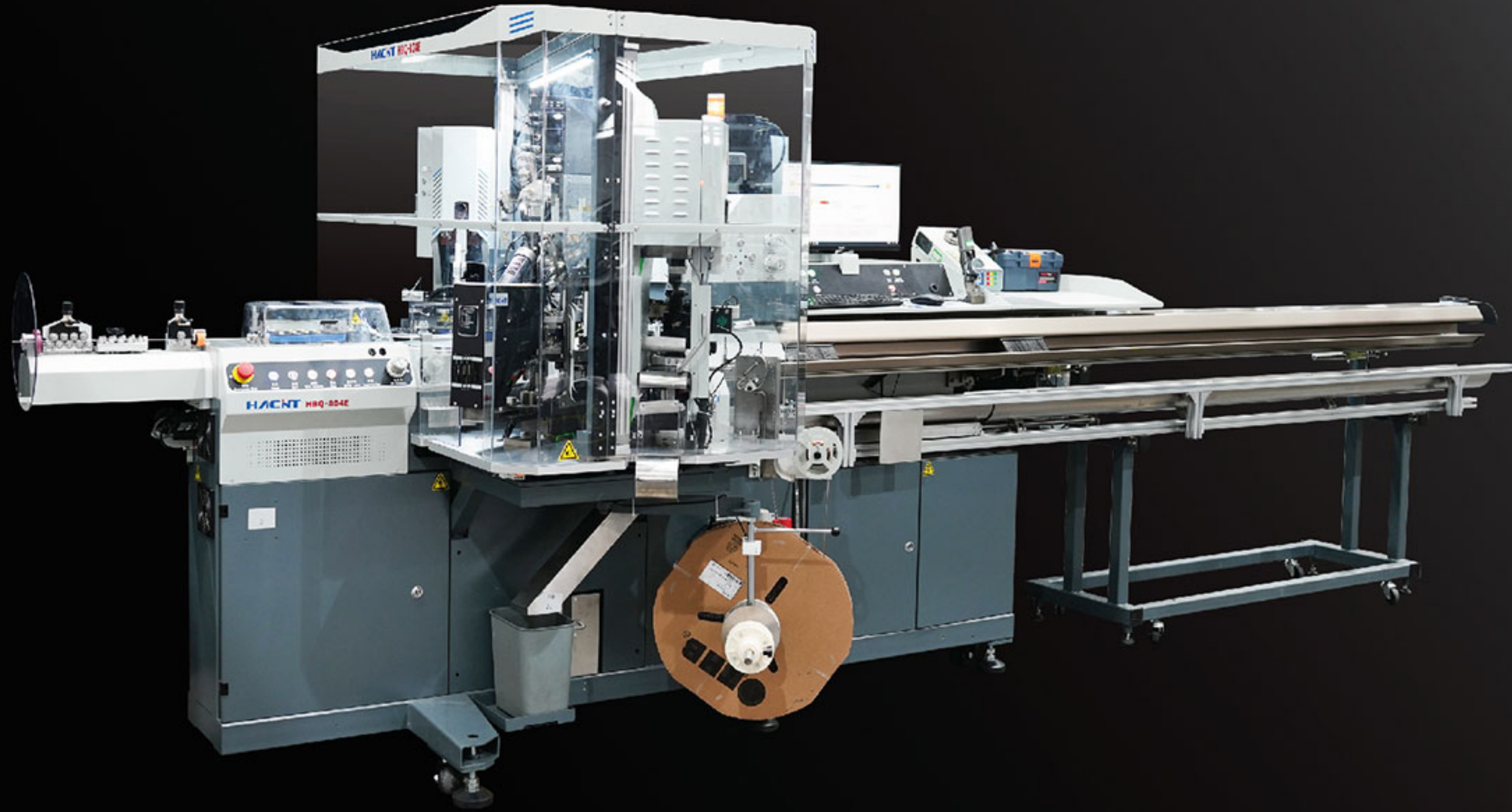
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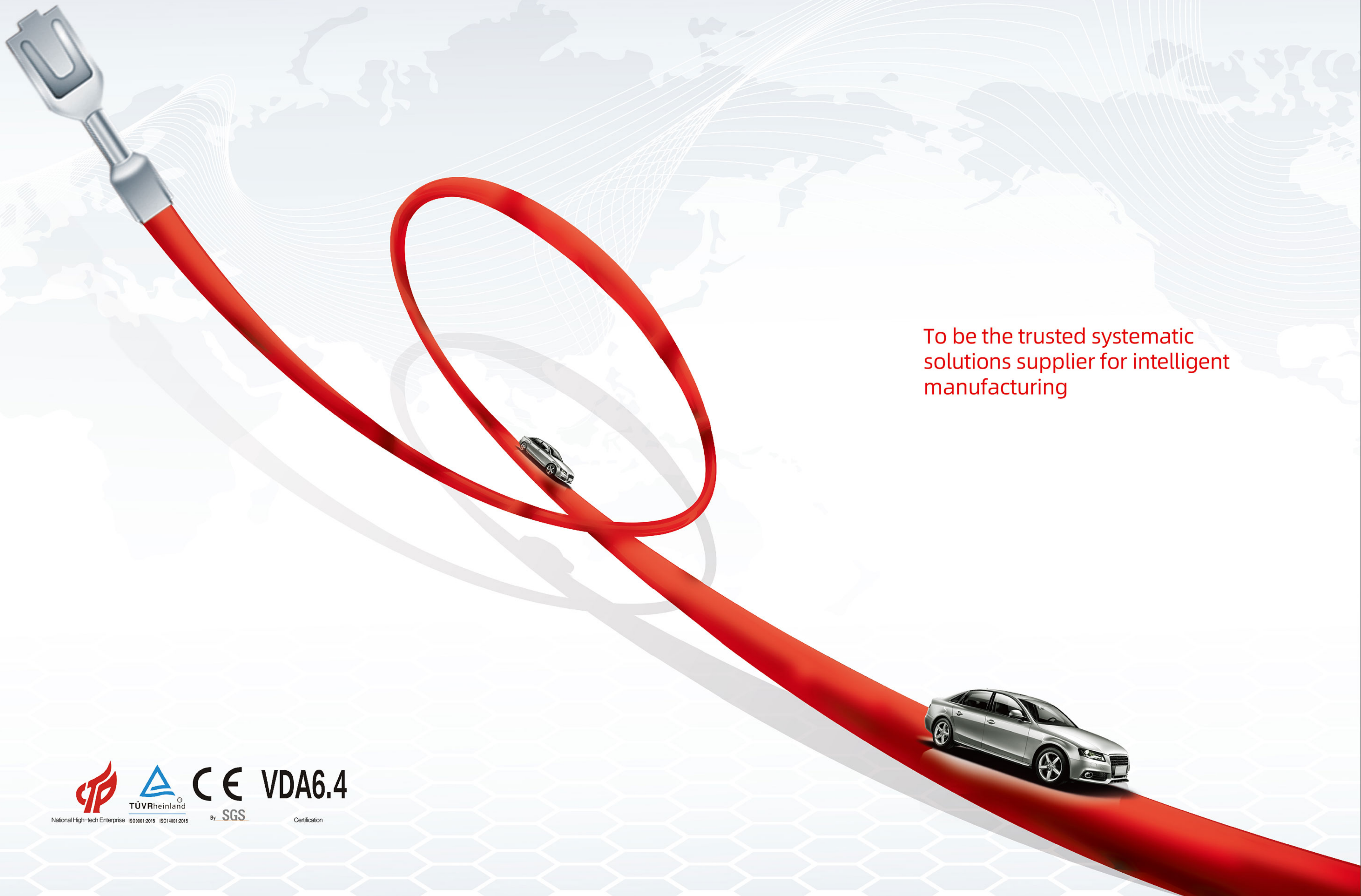
HACINT INTELLIGENCE TECHNOLOGY CO., LTD PRODUCT CATALOG

2025



**PRODUCT
CATALOG**

Note: The contents of this sample have been verified in detail. Errors caused by proofreading, shooting and printing shall be subject to the actual situation. The product pictures shall be subject to the real object and the technical parameters shall be subject to the product description.



To be the trusted systematic
solutions supplier for intelligent
manufacturing



National High-tech Enterprise



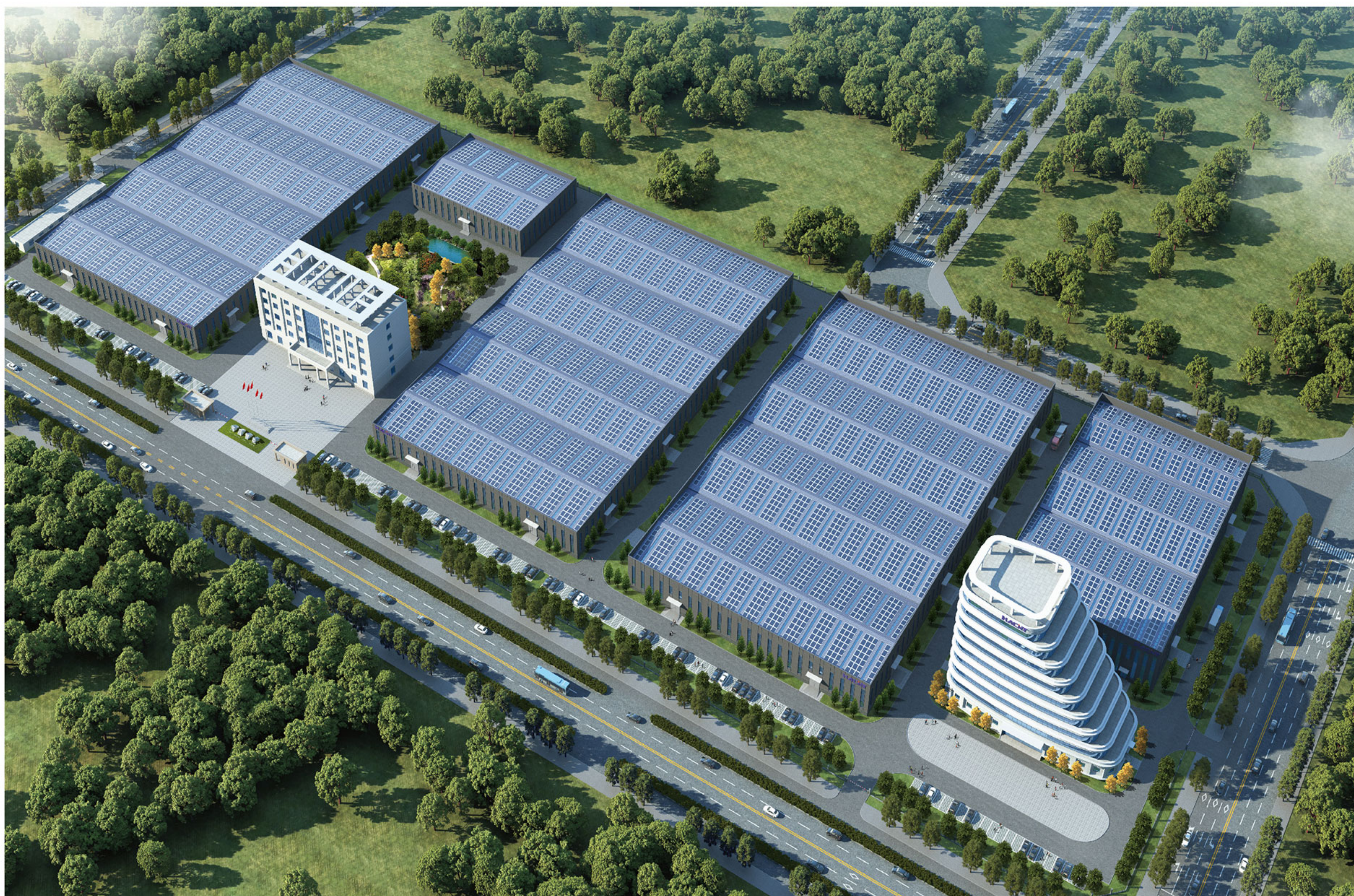
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By SGS

VDA6.4

Certification



About us

With the mission of intelligent manufacturing, Hacint Intelligence Technology Co., Ltd. has been committed to becoming the trusted systematic solutions supplier for intelligent manufacturing since establishment in 1994. Hacint implements 3+2+X product strategy: wire harness equipment series, crimping applicators series, wire harness test series, intelligent software series, intelligent equipment series, intelligent logistics series and so on, which are widely used in fields such as the automotive industry, information and communication, photovoltaic energy storage, and home appliances etc.

Hacint owns an experienced R&D team and takes technological innovation as its core competitiveness, focusing on customer and fostering new products. Hacint provides systematic solutions for intelligent manufacturing to help customer achieve intelligent upgrading. The products have won the Henan provincial - level Science and Technology Progress Award several times, the company has been recognized as the national high-tech enterprise, national quality benchmark, innovative pilot enterprise in Henan Province, and digital service provider for SMEs in Henan Province and outstanding private enterprise of Henan Province. The company attaches great importance to quality system construction and is the first in the industry to pass the VDA6.4 quality management system.

Over the years, the company has established close cooperation with many international famous enterprises such as Aptiv, Leoni, Lear, Bosch, Siemens, etc. Meanwhile, we have established after-sales service offices in the United States, Mexico, Serbia, Morocco, Thailand, India, Shanghai, Dongguan, Chongqing, Tianjin, Changchun and other countries and regions, and our products are sold well in America, Europe, Africa, Southeast Asia, etc.

"Quality determines the future" is the eternal belief of Hacint people, "Excellence, exceeding your expectations" is the goal that Hacint people pursue diligently. Hacint will continue to uphold the service concept of sincerity, thoughtfulness, efficiency and professionalism, vigorously carry forward the enterprise spirit of unity and cooperation, hard work and innovation, and carry the business philosophy of casting products with sincerity and harmonious win-win situation, to create a bright future of high-tech and high intelligence for manufacturing enterprises!



Hacint Dongguan: R&D center in South China



Hacint Kunshan : R&D center in East China



Hacint Software : Software Service

CATALOG

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A PROFESSIONAL SUPPLIER OF DIGITAL FACTORY SOLUTIONS FOR THE WIRE HARNESS INDUSTRY

Hacint Henan Software Technology Co., Ltd.

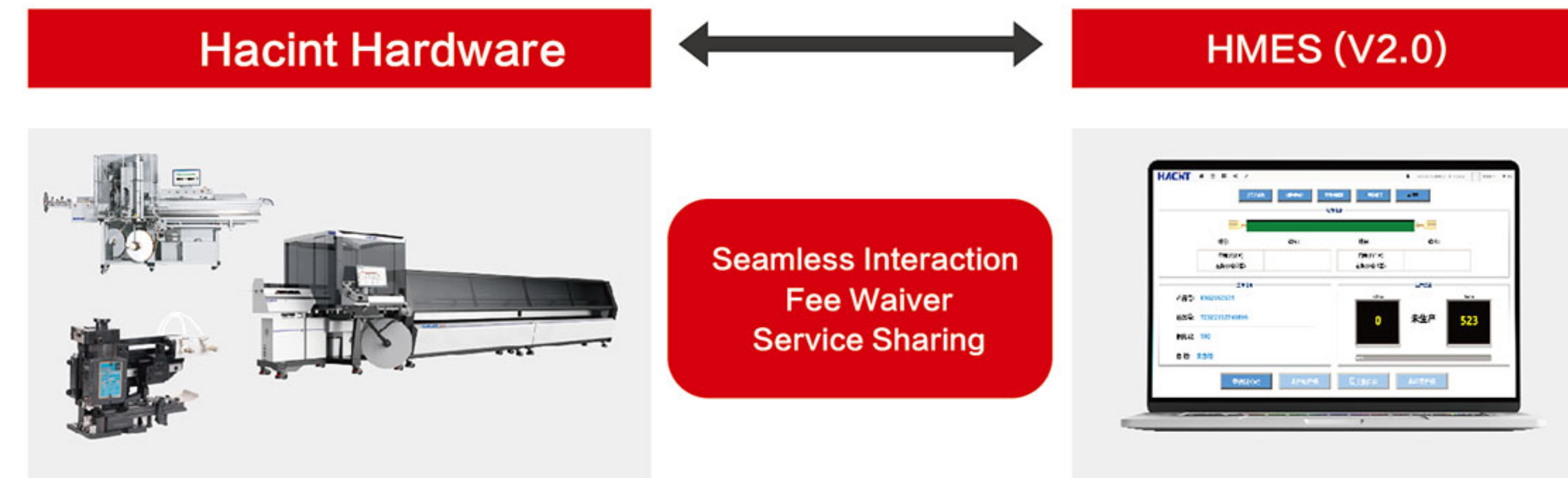
Established: 2020 (a wholly-owned subsidiary of Hacint)

Team members: Over **100** R&D engineers, with core personnel possessing many years of experience in manufacturing software

Core products: **MES, QMS, WMS, OA, SCM, CRM**, etc

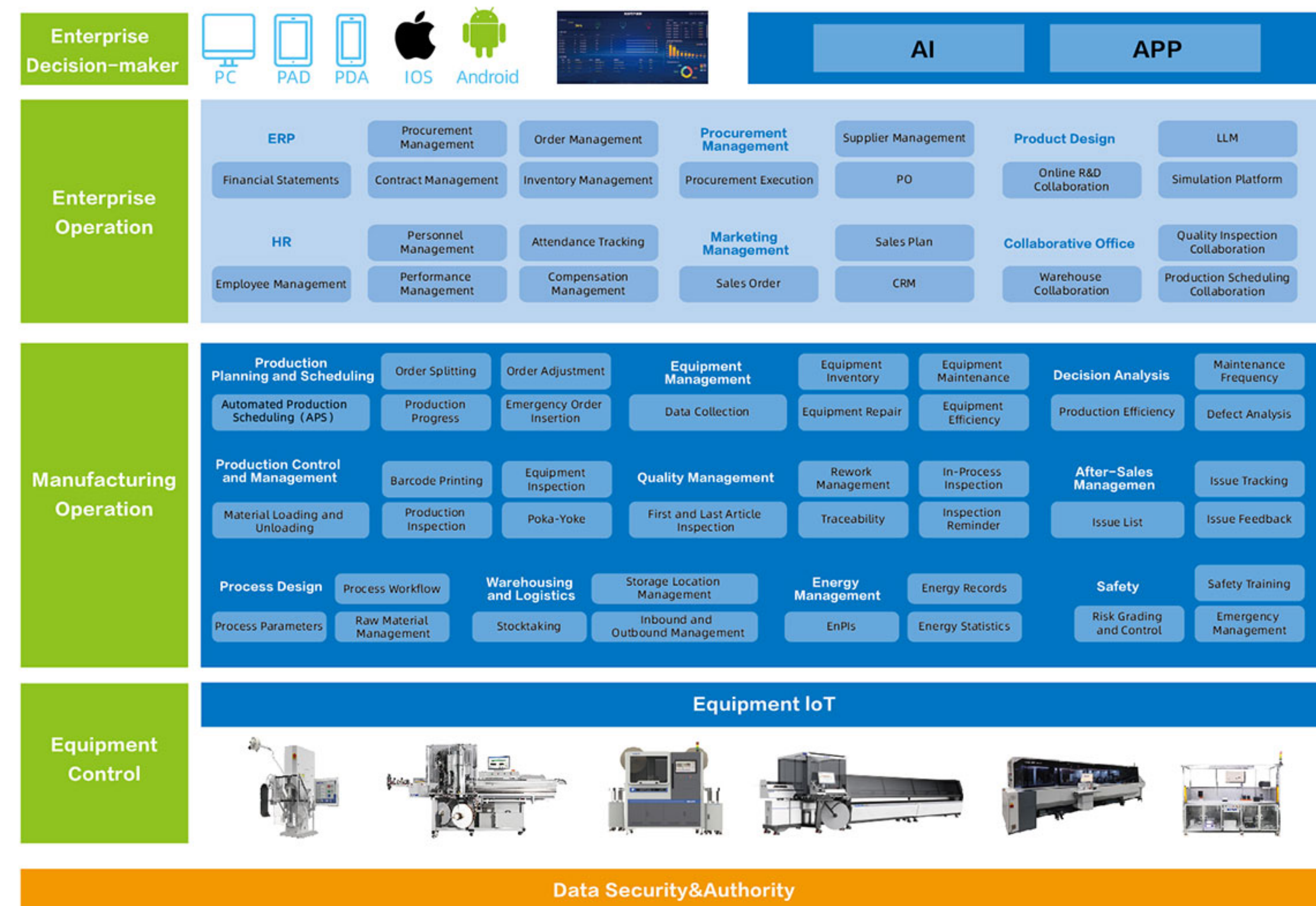
Focus on industries: **wire harness, injection molding, stamping, cable, electronics, machining**, and other automotive parts manufacturing industries

Key customers: Luxshare Precision, BYD, Tianhai Electronics, Shandong Haiyun, and over 100 others



Hacint Intelligent Manufacturing Information System (HMES)

System functional architecture



Smart BI



Product Case Video



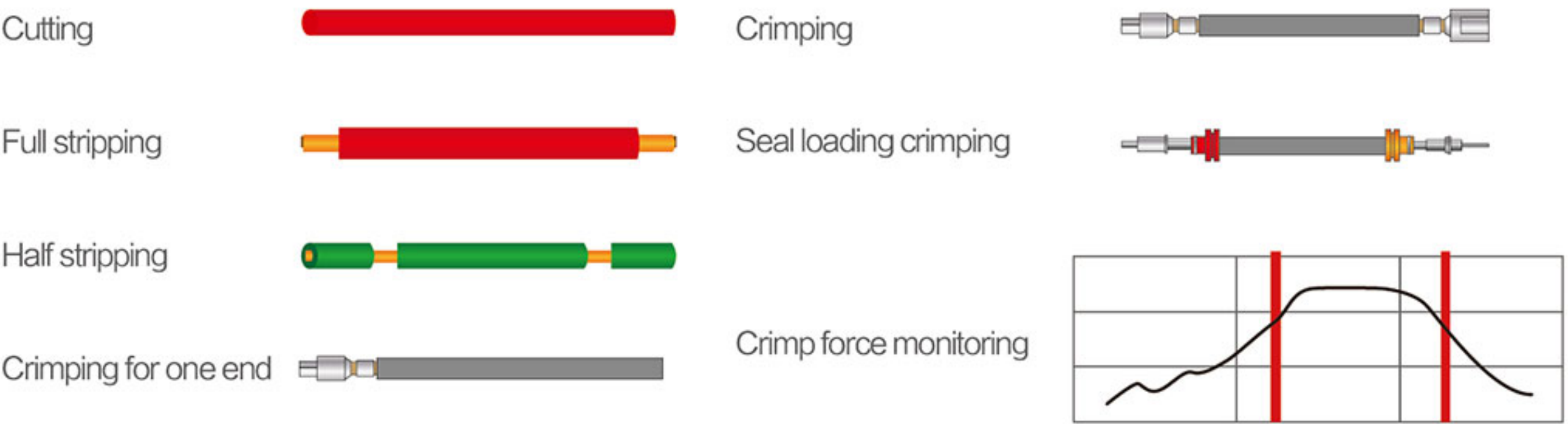
HBQ-802E AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-802E automatic crimping machine is a classic type independently developed by Hacint for the wire harness industry. It features a four-station platform, and in addition to the crimping station, it can be equipped with an a sealing workstation or visual inspection workstation. The equipment is driven by a high-precision servo system and equipped with a high-rigidity swing arm structure, enabling good product processing and being easy to maintenance, it makes the entry intoautomatic wire harness processing more economical.

Function



Other functions

Cut to length paper winder pneumatic delay feed automatic collection crimped wire defectives treating HIMES

Features

- **High quality:** Equipped with a standard pressure management device to detect defective products;
- **User-friendly:** Classic operation interface, easy and quick to operate;
- **Easy to maintain:** The proven swing arm structure is stable and reliable;
- **Low cost:** The simple design of the mature type brings a high cost – performance ratio.

Specifications

Type	HBQ-802E	
Length Range	60~200000mm	
Length Accuracy	± (1+0.2%*L)mm	
Stripping Length	0.1~18mm, side 1 0.1~15mm, side 2	
Wire Diameter Range	0.22~3mm²	
Wire Feeding Speed	8m/s(max)	
Noise Level	80dB (without crimping)	
Air Supply	0.5~0.6MPa	
Air Consumption	5.5~10m³/h	
Ambient Temperature	-5~40℃	
Crimping Force	20kN	
Crimping Stroke	30mm or 40mm	
Power Supply	AC380V/50Hz	
Capacity Efficiency	3500 pieces per hour (0.5 mm² wire, 1000mm in length, crimping at both ends)	
Stripping Accuracy	± 0.5mm	
Power	3kW (standard configuration)	
Overall Dimensions	L3750 × W1250 × H1900mm (Including 2m wire deposit unit)	
Weight	1200kg (standard configuration)	
Optional Accessories	<div>pre – feeding wire machine</div> <div>double straightener</div> <div>double terminal material tray</div> <div>terminal microscope</div> <div>printing module</div> <div>sealing workstation</div> <div>servo crimping machine 20kN</div> <div>wire splicing module</div> <div>rotary stripping module</div> <div>tensile testing machine</div> <div>constant pressure height measurement</div> <div>recoil gauge measurement</div> <div>wire replacement detection</div> <div>wire joint detection</div> <div>wire insulation damage detection</div> <div>wire take –up machine: 4m,6m, 8m, 12m, 20m</div>	

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-804E AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-804E Automatic Crimping Machine is a brand-new type independently developed by Hacint for the wire harness industry. It features a six-station flexible platform, and in addition to the crimping station, it can be equipped with workstations with different functions such as sealing workstations, visual inspection workstations, and pressure module workstations can be freely combined. The equipment is driven by a servo system with new technology and is equipped with a highly integrated and lightweight swing – arm structure, a specially designed dual – channel cutter, a multi – function button panel and other new designs, making the equipment powerful and suitable for a wide range of processes.

Function

Cutting

Full stripping

Half stripping

Crimping

Seal loading crimping

Crimp force monitoring

Inkjet marking

Other functions

Cut to length paper winder pneumatic delay feed automatic collection crimped wire defectives treating HMES

Features

- **High quality:** Equipped with a standard pressure management device to detect defective products;
- **Flexibility:** It can process special processes based on platform selection and module configuration;
- **User-friendly:** Hacint family-style design interface is simple and easy to learn;
- **Easy to operate:** No need to raise the protective cover for debugging and positioning of the multi-function button board;
- **Quick-change type:** The dual-channel cutter does not require frequent blade replacement;
- **Wide range:** The compatibility design allows for processing a wide range of wire diameters.

Specifications

Type	HBQ-804E	
Length Range	50~20000mm	
Length Accuracy	± (1+0.2%*L)mm	
Stripping Length	0.1~29.5mm	
Wire Diameter Range	0.13~6mm²	
Wire Feeding Speed	12m/s (max)	
Noise Level	80dB (without crimping)	
Air Supply	0.5~0.6MPa	
Air Consumption	5.5~10m³/h	
Ambient Temperature	-5~40℃	
Crimping Force	20kN	
Crimping Stroke	30mm or 40mm	
Power Supply	AC380V/50Hz	
Capacity Efficiency	4400 pieces per hour (0.5 mm² wire, 1000mm in length, crimping at both ends)	
Stripping Accuracy	± 0.5mm	
Power	4kW (standard configuration)	
Overall Dimensions	L3800 × W1550 × H1900mm (Including 2m wire deposit unit)	
Weight	1200kg (standard configuration)	
Optional Accessories	pre – feeding wire machine	constant pressure height measurement
	double straightener	recoil gauge measurement
	double terminal material tray	wire replacement detection
	terminal microscope	wire joint detection
	printing module	wire insulation damage detection
	sealing workstation	wire take – up machine: 4m, 6m, 8m, 12m, 20m
	servo crimping machine 20kN	
	tensile testing machine	

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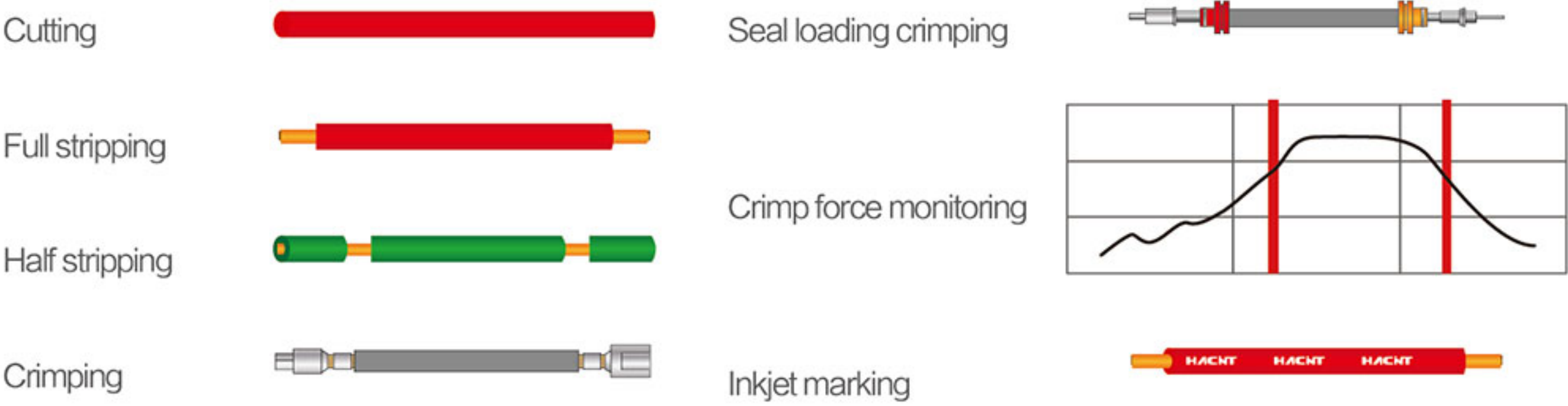
HBQ-804H AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-804H Automatic Crimping Machine is a type independently developed by Hacint for the wire harness industry, specifically targeting large square wire diameters. It features a six-station platform, in addition to the crimping station, It can be equipped with sealing workstation and visual inspection workstation. The equipment adopts a specially reinforced swing arm structure, equipped with an active wire feeding machine and an 8-ton crimping machine, capable of processing wire harnesses ranging from 6 ~ 16 square millimeters. Based on this platform, customized types for crimping loose terminals with heat-shrinkable tubes can be developed.

Function



Other functions

Cut to length paper winder pneumatic delay feed automatic collection crimped wire defectives treating HMES

Features

- **High quality:** Equipped with a standard pressure management device to detect defective products;
- **User-friendly:** Hacint family-style design interface is simple and easy to learn;
- **Easy to operate:** No need to raise the protective cover for debugging and positioning of the multi-function button board;
- **Customization:** Customized types for crimping loose-grain terminals with heat-shrinkable tubes are available.

Specifications

Type	HBQ-804H
Length Range	60~200000mm
Length Accuracy	± (1+0.2%*L)mm
Stripping Length	0.1~18mm, side 1 0.1~15mm, side 2
Wire Diameter Range	6~16mm²
Wire Feeding Speed	10m/s (max)
Noise Level	80dB (without crimping)
Air Supply	0.5~0.6MPa
Air Consumption	5.5~10m³/h
Ambient Temperature	-5~40℃
Crimping Force	80kN
Crimping Stroke	30mm or 40mm
Power Supply	AC380V/50Hz
Capacity Efficiency	3000 pieces per hour (16 mm² wire, 1000mm in length, crimping at both ends)
Stripping Accuracy	± 0.5mm
Power	5kW (standard configuration)
Overall Dimensions	L3950 × W1750 × H2000mm (Including 2m wire deposit unit)
Weight	1500kg (standard configuration)
Optional Accessories	active wire feeder pre-feeding wire machine printing module sealing workstation servo crimping machine 80kN tensile testing machine constant pressure height measurement wire take-up machine: 4m, 6m, 8m, 12m

★Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-G501 AUTOMATIC TIN DIPPING MACHINE



Introduction

HBQ-G501 automatic tin dipping machine (second generation) is a wire harness processing equipment that automatically crimps one end of the terminal and dips the other end with tin. Its functions include crimping and seal loading (optional), terminal CCD appearance inspection (optional), wire twisting, tin dipping, etc. The overall layout adopts a modular design, featuring high efficiency and convenient debugging. The equipment is equipped with terminal pressure inspection, terminal CCD appearance inspection (optional), NG cut-off fool-proofing (optional), micrometer (optional), and tensile tester (optional) to prevent defective products from being released. The equipment can be connected to the MES of factory, key components of the entire machine are sourced from either imported or well-known domestic brands to ensure equipment reliability.

HBQ-G501 automatic tin dipping machine (second generation), complete set includes: 1 set of main machine, 1 set of wire feeder, and wire retractor (customized according to customer's needs). The main machine can process wires with a length ranging from 20 to 9,999 millimeters and cross-sectional areas ranging from 0.04 to 2 square millimeters. The main machine can achieve a maximum efficiency of 3600 pieces per hour, and the wire feeder can accommodate up to 400 rolls (drums) of wire as input material. It equipped with a pre-feeding wire function to prevent the situation where the lengths of wires are inconsistent.

Features

- **High efficiency:** The entire machine adopts a servo system, with linear motion precision grinding screw guide rails, featuring an exquisite and compact structure, resulting in higher efficiency, with a maximum speed of up to 3600pcs/h;
- **Blade adjustment:** The stripping process adopts a dual-station design, with front and rear stripping blades that are easy to adjust;
- **Quality assurance:** The automatic reflow system for flux ensures stable tin dipping, reduces manual operations, and enhances equipment utilization;
- **Simple interface:** Friendly PC interface, controlled by industrial computer, easy to connect to MES;
- **Humanization:** The overall structure of the body is simple and elegant, conforming to ergonomic design.

Specifications

Type	HBQ-G501
Wire Diameter Range	0.04~2mm ²
Length Accuracy	20~9999mm
Capacity Efficiency	L=100 3600pcs/h (front terminal crimping, rear tinned) 3200pcs/h (front terminal crimping, rear twisted & tinned)
Crimping Force	Servo 2T
Stripping Length	A: 1~6mm; B:1~15mm
Stripping Accuracy	±0.2mm
Length Accuracy	≤300 time ±0.5mm, ≥300 time ±(0.2%*L+1) mm
Tinning Length	1~15mm
Overall Dimensions	L900×W1100×H1800mm
Weight	500kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-G502 AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-G502 automatic crimping machine (second generation) is a wire harness processing equipment for fully automatic double-head crimping of terminals. Its functions include crimping, mid-stripping function (optional), and seal loading (optional), terminal CCD appearance inspection (optional), housing loading (optional), and stripping function (optional), etc. The overall layout adopts a modular design, ensuring high efficiency,it is easy to debug. This equipment is equipped with terminal pressure detection and terminal CCD appearance detection (optional), preventing defective products from being released. The key components of the entire machine are sourced from imported or well-known domestic brands to ensure the reliability of the equipment.

HBQ-G502 automatic crimping machine, complete set includes: 1 set of main machine, 1 set of wire feeder, and wire retractor (customized according to customer's needs). The main machine can process wires with a length ranging from 35 to 9999 millimeters and cross-sectional areas ranging from 0.1~2 square millimeters, the fastest efficiency of the main machine can reach 3400~3600pcs/h (only double-head crimping, without enabling the middle stripper), and the wire feeder can feed up to 400 coils of wire (Roller) with pre-feeding wire function to prevent the situation where the lengths of wires are inconsistent, and optional tension meter and digital micrometer.

Features

- **High efficiency:** The entire machine adopts a servo system, with linear motion precision grinding screw guide rails, compact and delicate structure, resulting in higher efficiency, with a maximum speed of up to 3600pcs/h;
- **Blade adjustment:** The stripping process adopts a dual-station design, with front and rear stripping blades for easy adjustment;
- **Convenient operation:** Friendly PC interface, controlled by industrial computer, easy to connect to MES;
- **Humanization:** The overall structure of the body is simple and elegant, conforming to ergonomic design.

Specifications

Type	HBQ-G502
Wire Diameter Range	0.04~2mm ²
Length Accuracy	35~9999mm, middle stripping: 150~9999mm
Capacity Efficiency	L=100 3400~3600pcs/h (double head crimping) 1200pcs/h (middle stripping double head crimping) 800pcs/h (middle stripping double head crimping, CCD detection)
Crimping Force	Servo 2T
Stripping Length	A:0~8mm B:0~8mm
Length Accuracy	≤300 time ±0.5mm, ≥300 time ±(0.2%*L+1) mm
Overall Dimensions	L1000×W1200×H1800mm
Weight	580kg
Optional Accessories	sealing workstation terminal CCD appearance inspection loading housing function rotary stripping function tensile testing machine height detector wire take - up machine can be customized

HBQ-G506 AUTOMATIC DOUBLE-ENDED AND DOUBLE-WIRE CRIMPING SPLICING MACHINE



Introduction

HBQ-G506 automatic double-ended and double-wire crimping splicing machine is a wire harness processing equipment for automatic double-wire crimping. Its functions include double-head crimping, seal loading(optional), management device, terminal CCD appearance inspection (optional), double-wire crimping, etc., suitable for automotive wire harnesses and home appliance electronic wires. The overall layout adopts a modular design, ensuring high efficiency and it is easy to debug, it adopts modularized changeover, ensuring high changeover efficiency. The key components of the entire machine are sourced from either imported or well-known domestic brands, ensuring the reliability of the equipment.

HBQ-G506 automatic double-ended and double-wire crimping splicing machine, complete set includes: 1 set of main machine, 1 set of wire feeder, and wire retractor. The main machine can process wires with lengths ranging from 60 to 600 millimeters and cross-sectional areas ranging from 0.1 to 2 square millimeters.

Features

- **High efficiency:** With three types of crimping, at L=100mm, the efficiency is 1600 pieces per hour;
- **Multiple functions:** Crimping, with the option to install a terminal housings;
- **High configuration:** The entire machine is equipped with full servo control, high-precision screw guides, and branded standard components;
- **Humanization:** The overall design conforms to ergonomic design, ensuring convenient debugging and operation;
- **Easy to operate:** The software is simple and user-friendly, with intuitive and quick operation.

Specifications

Type	HBQ-G506
Wire Diameter Range	0.1~2mm²
Length Accuracy	standard mode 60 ~ 600mm (length customizable) minimum length 120mm in long – short wire mode
Capacity Efficiency	L = 100mm, 1600pcs/h (varies by product line)
Crimping Force	servo 2T, 3 servo crimping machines
Stripping Length	A: 1~6mm; B:1~6mm
Stripping Accuracy	± 0.2mm
Length Accuracy	L≤300 time ±0.5 L≥300 time ± (0.2%*L ± 1) mm
Power Supply	220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	L1500×W1500×H1800mm
Weight	800kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

FSA-001E SEALING MODULE

Introduction

FSA-001E sealing module provides strong support for the automatic wire harness processing system. This equipment perfectly matches HBQ-802/HBQ-804 automatic crimping machines, it is used to install sealing onto the ends of stripped wires, featuring automatic feeding, screening, expanding, and loading functions, suitable for various types of sealing. The precise sealing system ensures processing accuracy, coupled with a compact structure and reliable monitoring, making it the preferred configuration for Hacint's automatic crimping machine.

Features

- **Space-saving:** Ultra-thin body design reduces the occupation of space in automatic machines;
- **High quality:** Multi-channel sensor detection ensures accurate insertion and reduces the production of waste products;
- **Quick changeover:** Modular design, easy to replace;
- **Compatibility:** Fully compatible with all mainstream automatic machines, featuring Ethernet communication capabilities.

Specifications

Type	FSA-001E
Wire Diameter Range	1~5mm
Sealing Size	Height & Diameter <17mm
Processing Time	0.17s
Cycle Beat	0.9s
Power Supply	100~220VAC, 50Hz, 200W
Air Supply	0.55~0.7MPa
Overall Dimensions	L530×W210×H860mm
Weight	30kg



HBQ-804-03A WIRE PREFEEDER

Introduction

HBQ-804-03A wire prefeeder is an active pre-feeder that can smoothly deliver wires to the main machine to ensure the main machine operates efficiently. It can handle wires in various packaging, including bulk, barrel, and hub packaging. This equipment accelerates and decelerates at the same rhythm as the host machine, which can prevent the wires from knotting.

Features

- Adopting servo motor control, with stepless speed change, ensuring smooth wire feeding;
- Adopting a swing arm mechanism for more effective straightening and storage of wires;
- The back end is equipped with an anti-kinking alarm mechanism for wires, effectively protecting the wires;
- Can be used as an independent accessory, perfectly matching with various mainstream brand automatic machines.

Specifications

Type	HBQ-804-03A
Power Supply	AC220V/50Hz
Power	400W
Wire Feeding Speed	6m/s
Overall Dimensions	L1349×W385×H1327mm
Weight	55kg



CVS-A30 TERMINAL DETECTION SYSTEM

Introduction

The terminal inspection system is an integrated inspection system that encompasses stripping, seal loading defective detection, and crimp defective detection. It can be customized according to the detection requirements of customers, which involve separate processes for testing of stripping, seal loading and crimping; Stripping and seal loading detection can detect the defective items of stripping and seal loading after stripping, while the crimping detection can detect the defective items after crimping. In the detection of terminal appearance defects, the detection system can identify crimping defects that pressure detection equipment cannot recognize and detect. During the swinging stroke of the robotic arm, the camera is triggered to take photos through control, and the AI detection algorithm is used to detect stripping, seal loading and crimping defects have greatly improved the accuracy of quality control defect detection, preventing the outflow of defective products.

Features

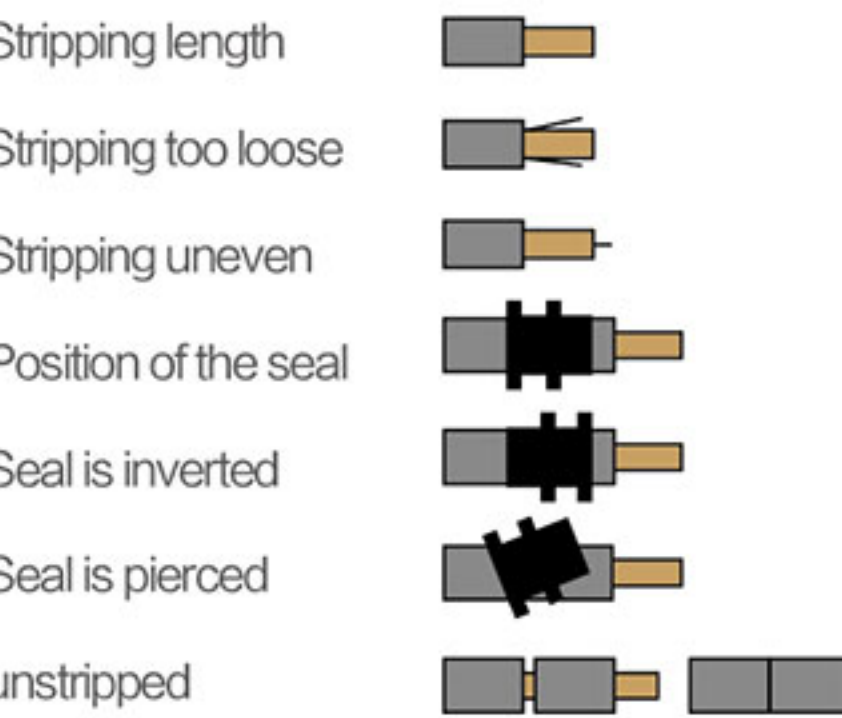
- **Compact and stable:** It has a small shape and a compact structure. Images are transmitted through an image acquisition card, and judgment and processing are carried out on the computer side, with stable and reliable performance;
- **Clear and Convenient:** The interface is clear and intuitive, with convenient operation and immediate detection results;
- **AI, Compatibility:** The AI detection algorithm boasts higher compatibility, allowing direct detection of conventional terminals without the need for new settings the detection process.

Function

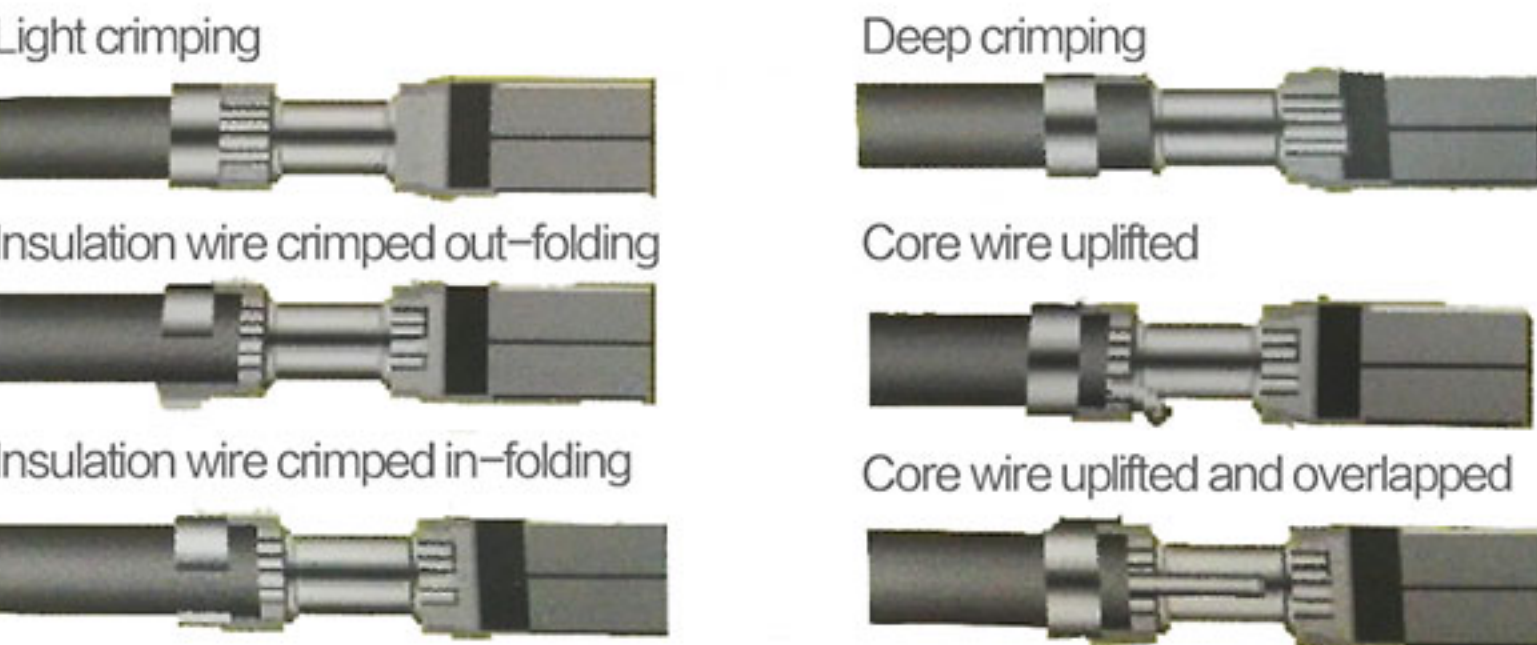
- **AI detection algorithm:** By accumulating image data of different terminal types, we can strengthen the detection type and improve the versatility of the detection algorithm;
- **Acquisition channel:** Dual-end detection, with cameras operating independently and separate acquisition and processing, ensuring no signal conflicts;
- **Data processing:** By setting options, you can choose to save normal or abnormal images, as well as the image storage path, which is convenient query the image for traceability;
- **Data communication:** Communicate with the device control program through IO hardware, achieving higher real-time performance and stability. Once a detection anomaly is found, production will be stopped immediately and the abnormal parts will be removed.

Detection items

Stripping detection



Crimping detection

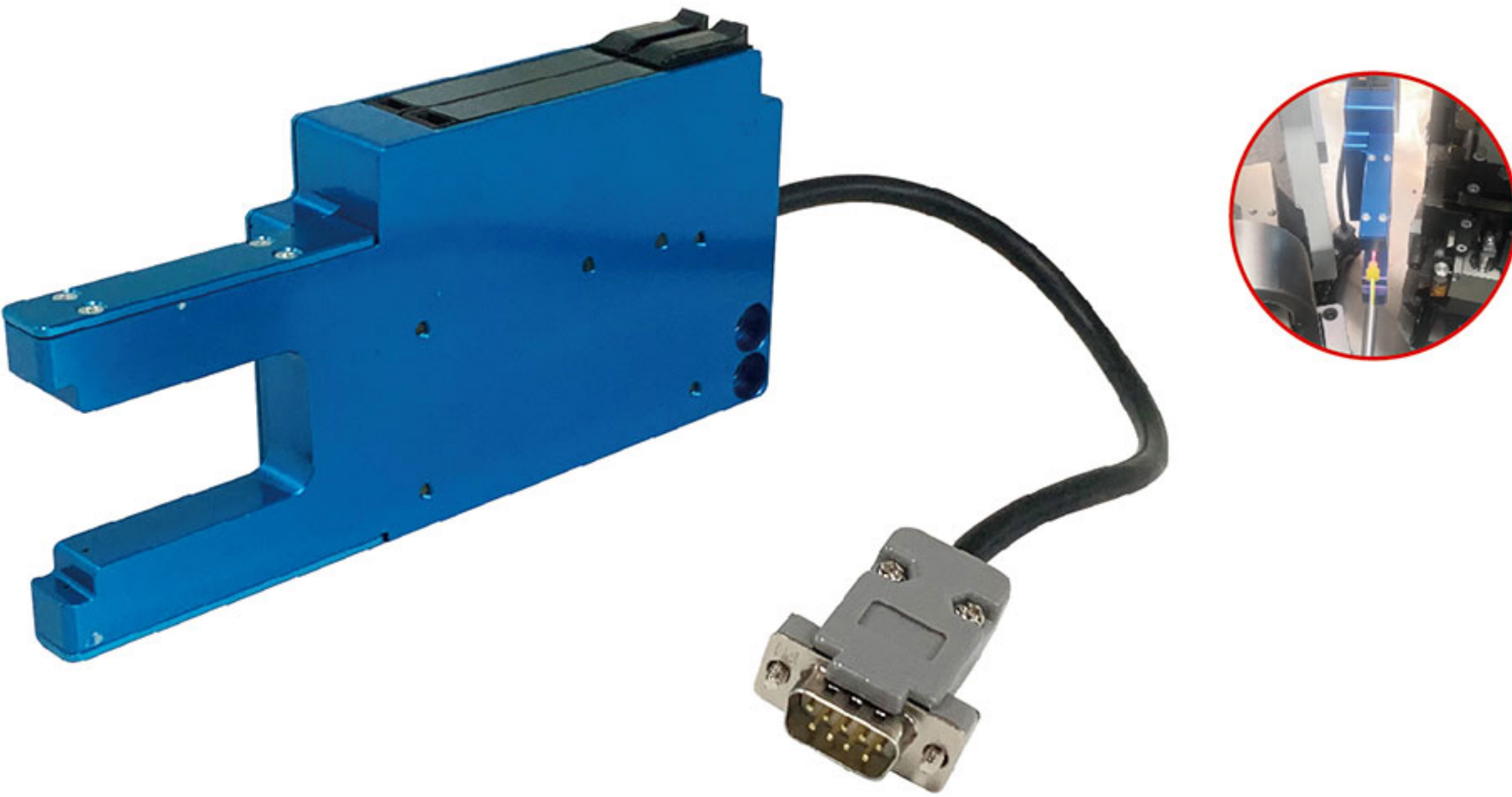


Specifications

Type	CVS-A30	Terminal Passing Speed	3m/s
Judgment Time	<50ms	Exposure Time	0.022m/s
Shutter Speed	1/45000s (22us)	Flash Duration	<1ms
Camera Pixel	1440 × 1080(1.6MP pixels)	Overall Dimensions	L308 × W66 × H457mm
Detection rate	100%	Weight	3.7kg
Accuracy	99.99%		

★ Related Products HBQ-804 Fully Automatic Crimping Machine

HBQ-054 STRIPPING AND PLUGGING DETECTION SYSTEM



Introduction

HBQ-054 stripping and plugging detection system is a detection system capable of online detection of stripping and plugging status. This system identifies defective products such as those with un – stripped insulation, copper wires completely cut by the stripping knife, and those without sealing through comparative measurement with qualified products. Thus, it effectively prevents situations where there is no core wire or no sealing during the crimping process. This system is an effective supplement to the pressure management CFM, reducing the risk of defective products flowing out.

Features

- Exquisite appearance, compact internal structure, embedded control, stable and reliable performance;
- Using the host computer software for parameter setting, data display, data saving, and data traceability;
- The input and output are designed in a bidirectional manner, compatible with both NPN and PNP;
- It can support single-wire mode and double-wire mode (with a minimum double-wire spacing of 4mm).

Specifications

Type	HBQ-054	Wire Diameter Range	≥0.25mm²
Power Supply	24VDC	Communication Interface	RS232
Power	2W	IO Interface	Two-way input & output
Sampling Frequency	80kHz	Overall Dimensions	L155 × W70 × H22mm
Amplifier Response	< 60us	Weight	about 1kg

HBQ-2030J/4030J/8030J CRIMPING MACHINE

Introduction

- **Precision:** The sealing height is continuously adjustable, with a precision of up to 0.03mm;
- **Fast:** Compatible with various applicators, easy and quick to replace;
- **Stability:** The transmission structure is simple, ensuring stable and reliable operation;
- **Energy-saving:** It only performs work at the moment of crimping, saving electric energy;
- **Quiet:** Low-noise design, suitable for homework;
- **Safety:** Unique overload protection function ensures operational safety.



Specifications

Type	HBQ-2030J	HBQ-4030J	HBQ-8030J
Slider Stroke	30mm	30mm	30mm
Closed Height	119.7mm	119.7mm	119.7mm
Adjustment Amount of Closed Height	10mm	10mm	10mm
Crimping Force	20kN	40kN	80kN
Wire Diameter Range	0~4mm ²	0~8mm ²	0~16mm ²
Terminal Material Thickness	≤0.3mm	≤0.6mm	≤1.2mm
Number of Stroke	160s.p.m (high speed 200s.p.m)	160s.p.m	80s.p.m
Power Supply	AC220V/50Hz	AC220V/50Hz	AC380V/50Hz
Power	0.75kW	1.5kW	3kW
Overall Dimensions	L325 × W280 × H690mm	L360 × W300 × H890mm	L430 × W360 × H1030mm
Weight	75kg	105kg	200kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

★ Related Products

Related Products for HBQ-2030JB/X4030JB

XAS4/AE4 Crimping Applicator
XS4/E4 Crimping Applicator
YJM-4XA/100A Crimping Applicator

Related Products for HBQ-8030J

Battery Crimping Applicator
Heavy Duty Crimping Applicato

Other Related Products

Shut Height Gauge
Pneumatic Changing Module
Multi-function Crimping Work Table
Paper Winder
Bad Crimp Cutter
Stripping Module
CFM

HBQ-2040E/4040E/8040E CRIMPING MACHINE

Introduction

- **Precision:** The sealing height is continuously adjustable, with an accuracy of up to 0.03mm;
- **Fast:** Compatible with various applicators, easy and quick to replace;
- **Stability:** The transmission structure is simple, ensuring stable and reliable operation;
- **Energy-saving:** It only performs work at the moment of crimping, saving electric energy;
- **Quiet:** Low-noise design, suitable for homework;
- **Safety:** Unique overload protection function ensures operational safety.



Specifications

Type	HBQ-2040E	HBQ-4040E	HBQ-8040E
Slider Stroke	40mm	40mm	40mm
Closed Height	135.78mm	135.78mm	135.78mm/192mm+10mm (stamping)
Adjustment Amount of Closed Height	6mm	2mm	2mm
Crimping Force	20kN	40kN	80kN
Wire Diameter Range	0~4mm ²	0~8mm ²	0~16mm ²
Terminal Material Thickness	≤0.3mm	≤0.6mm	≤1.2mm
Number of Stroke	160s.p.m (high speed 200s.p.m)	160s.p.m	80s.p.m
Power Supply	AC220V/50Hz	AC220V/50Hz	AC380V/50Hz
Power	0.75kW	1.5kW	3kW
Overall Dimensions	L325 × W280 × H690mm	L360 × W300 × H890mm	L430 × W360 × H1030mm
Weight	75kg	105kg	200kg

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★ Related Products

Related Products for HBQ-2040E/2040EB

YJM-AFS300B/AFE300B Crimping Applicator
YJM-S300A/E300A Crimping Applicator

Related Products for HBQ-8040E

YJM-AFS300B/AFE300B Crimping Applicator
YJM-S300A/E300A Crimping Applicator
Battery Crimping Applicator
Heavy Duty Crimping Applicator

Other Related Products

Shut Height Gauge
Pneumatic Changing module
Multi-function Crimping Work Table
Paper Winder
Bad Crimp Cutter
Stripping Module
CFM

HBQ-P20/P30 CRIMPING MACHINE

Introduction

HBQ-P20/P30 is a heavy-duty crimping machine capable of crimping large cross-section wires. The safety of operators is ensured at all times through safety devices such as safety gratings and two – hand buttons. Functions such as jogging the chucking and reverse rotation make applicators adjustment more convenient. It is an ideal substitute for traditional punching machines. In addition, there are various heavy – duty applicators available for supporting use.

Features

- **Adjustable speed:** This product is controlled by frequency conversion, allowing the crimping speed to be adjusted according to different customer's needs;
- **Torque controllable:** It can achieve both fast and slow crimping with constant pressure torque;
- **Convenience:** High crimping accuracy, with a fine adjustment precision of 0.05mm, no tools required, and easy to operate;
- **Safety:** The product is equipped with a dual-hand button, and an optional safety grating protection device is available, fully considering ergonomics, protect personal safety at all times; the product features audible and visual alarm functions, highlighting the importance of safety;
- **Labor-saving:** The product can achieve a low-speed turning function, reducing the physical labor of operators and facilitating applicators adjustment.

Specifications

Type	HBQ-P20	HBQ-P30
Crimping Force	200kN	300kN
Slider Stroke	50mm	
Closed Height	202mm /197.5mm	
Adjustment Amount of Closed Height	15mm	
Times of Stroke	45s.p.m	25s.p.m

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★ Related Products

CLM Battery Terminal Crimping Applicator
HD07 Heavy Duty Crimping Applicator



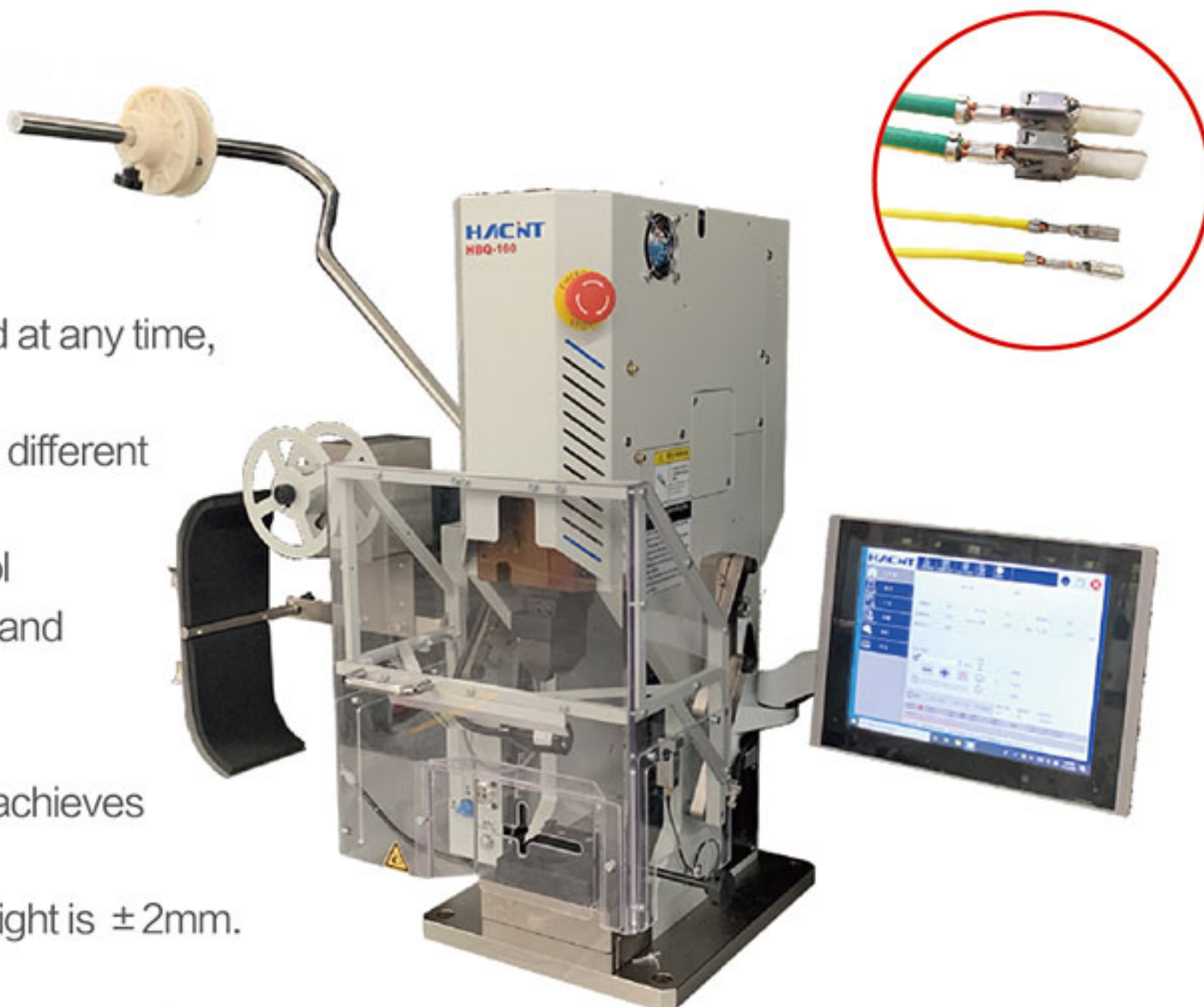
HBQ-160 MULTI-FUNCTIONAL SERVO CRIMPING MACHINE

Introduction

HBQ-160 multi-function servo crimping machine is a new generation of servo crimping machine developed by Hacint. It can achieve automatic adjustment of the crimping height and free setting of the crimping speed to meet more crimping process requirements.

Features

- **Stability:**
The transmission structure is simple;
The operation is stable and reliable;
Keyless connection, less prone to wear, and long equipment service life.
- **Efficiency:**
The crimp height parameter can be called at any time, enabling rapid applicators change;
The crimping speed is adjustable to meet different crimping requirements;
10-inch industrial-grade industrial control computer screen, with beautiful interface and simple operation.
- **High quality:**
Driven by a unique servo motor board, it achieves more precise control;
The fine adjustment range of crimping height is $\pm 2\text{mm}$.
- **Adaptability:**
Optional networking mode, fully integrated with MES, It can conduct the interaction of various data;
Optional modules include the ingreapplicatorsnt belt cutting, defective product cutting and pressure monitoring module, etc.



Specifications

Type	HBQ-160J	HBQ-160J-4T	HBQ-160E	HBQ-160E-4T
Slider Stroke	30mm	30mm	40mm	40mm
Closed Height	119.7mm	119.7mm	135.78mm	135.78mm
Crimping Force	25kN	40kN	25kN	40kN
Power	1.8kW			
CT	$\geq 800\text{ms}$ (adjustable)			
Adjustment Amount of Closed Height	$\pm 2\text{mm}$			
Wire Diameter Range	0~6mm ²	0~8mm ²	0~6mm ²	0~8mm ²
Terminal Material Thickness	$\leq 0.3\text{mm}$	$\leq 0.6\text{mm}$	$\leq 0.3\text{mm}$	$\leq 0.6\text{mm}$
Power Supply	AC220V 50Hz			
Air Supply	0.5~0.7MPa			
Overall Dimensions	L1080 × W590 × H870mm			
Weight	140kg	160kg	140kg	160kg
Optional Accessories	pressure management device material cutting defective product cutting			

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-160H MULTI-FUNCTIONAL SERVO CRIMPING MACHINE



Introduction

HBQ-160H multi-functional servo crimping machine is a new-generation servo crimping machine developed by Hacint. It can achieve automatic adjustment of the crimping height and free setting of the crimping speed to meet more crimping process requirements.

Features

- **Stability:**
The transmission structure is simple, and the operation is stable and reliable;
Keyless connection, less prone to wear, and long equipment service life.
- **Efficient:**
The crimping height parameter can be called at any time to achieve rapid applicators change;
The crimping speed is adjustable to meet different crimping requirements;
10-inch industrial-grade industrial control computer screen, with beautiful interface and simple operation.
- **High quality:**
Driven by a unique servo motor board, it achieves more precise control;
The fine adjustment range of crimping height is $\pm 2\text{mm}$.
- **Adaptability:**
Optional networking mode, fully integrated with MES, enabling
Interaction of various data;
Optional accessories include modules such as a cutting module and a pressure monitoring module.



Specifications

Type	HBQ-160HJ	HBQ-160HE	Power Supply	AC220V 50Hz
Slider Stroke	30mm	40mm	Air Supply	0.5~0.7MPa
Closed Height	119.7mm	135.78mm/200mm	Wire Diameter Range	0~16mm ²
Crimping Force	80kN		Terminal Material Thickness	$\leq 1.2\text{mm}$
Power	1.8kW		Adjustment Precision	0.01mm
CT	Minimum 250ms		Maximum Holding Time	3s
Adjustment Amount of Closed Height	$\pm 2\text{mm}$		Overall Dimensions	L1100 × W600 × H870mm
			Weight	230kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-SP12/SP20 SERVO CRIMPING MACHINE

Introduction

HBQ-SP12/SP20 servo crimping machine is a new generation of semi-automatic servo crimping machine from Hacint. The equipment adopts servo motors and PLC control system, ensuring precise crimping height and quality.

Features

- **Stable and durable:** With a brand-new mechanism design, it ensures stable crimping and precise crimping height;
- **Strong universality:** Adaptable to various applicators;
- **Precise adjustment:** Independent motor, adjust crimping height, and automatically compensate for height;
- **Easy operation:** Touch screen control, setting parameters, jog operation, and convenient and quick access to process formulas;
- **Rich functionality:** It can be integrated with MES, and options such as pressure management and scanning guns are available.



Specifications

Type	HBQ-SP12	HBQ-SP20
Power Supply	380V/50Hz	380V/50Hz
Power	4kW	4kW
Crimping Force	120kN	200kN
Slider Stroke	40mm	55mm
Times of Stroke	30s.p.m	20s.p.m
Wire Diameter Range	50mm ² (max)	120mm ² (max)
Terminal Material Thickness	$\leq 2\text{mm}$	$\leq 2\text{mm}$
Closed Height	202mm	202mm
Adjustment Amount of Closed Height	$\pm 5\text{mm}$	$\pm 5\text{mm}$
Overall Dimensions	L900 × W1100 × H1800mm	L900 × W1100 × H1800mm
Weight	700kg	800kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-S10/S18 SERVO CRIMPING MACHINE

Introduction

HBQ-S10/S18 servo crimping machine, a semi-automatic machine specially designed for crimping large square cables. Compared with traditional crimping machines, it has features such as automatically adjustable crimping height and closing height, and a large crimping force. It can be adapted to a variety of applicators, featuring strong versatility and high crimping accuracy. It can be connected to MES, making it more intelligent.

Features

- **Stability:**
The transmission structure is simple, and the operation is smooth and reliable;
With constant torque control, the force during the crimping process remains constant, ensuring pressure maintenance at the lowest crimping position;
Reduce the rebound amount of the terminal.
- **Efficient:**
The crimping height parameter can be called at any time to achieve rapid applicators change;
The crimping speed is adjustable to meet different crimping needs;
10-inch industrial-grade industrial control computer screen, with formulas that can be stored and retrieved, and simple operation.
- **High quality:**
Driven by a servo motor, the system utilizes a high-precision electric cylinder as the actuator, achieving high repeatability and positioning accuracy;
The displacement sensor can provide real-time feedback on position information and enable an over-tolerance alarm function for crimping stroke, the crimping height is more stable.
- **Adaptability:**
Optional networking mode, fully integrated with MES, enabling various data interactions;
It can be adapted to various heavy-duty applicators such as CLM, DCM, and HCA.

Specifications

Type	HBQ-S10	HBQ-S18
Slider Stroke	100mm (max)	100mm (max)
Wire Diameter Range	0~95mm²	0~150mm²
Terminal Material Thickness	≤2mm	≤2mm
Power	5.5kW	11kW
Crimping Force	200kN	300kN
Rated Speed	50mm/s	50mm/s
Power Supply	380V/50Hz	380V/50Hz
Overall Dimensions	L1200 × W1000 × H2200mm	L1400 × W1100 × H2200mm
Weight	1000kg	1000kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.



HBQ-H15A OIL HYDRAULIC CRIMPING MACHINE

Introduction

HBQ-H15A oil hydraulic crimping machine is a semi-automatic machine specially designed for crimping large-square-section cables. Compared with traditional mechanical crimping machines, it has characteristics such as a small footprint and a large crimping force. It is also equipped with a newly designed applicators mounting base, which can be adapted to various applicators such as CLM and HCA simultaneously, thus having stronger versatility. The crimping height is adjustable, and it is equipped with multiple crimping modes, making its application range wider.

Features

- **High quality:** Small size, high crimping force, and adjustable crimping start and stop height;
- **High efficiency:** Adjustable stroke, higher efficiency with short stroke;
- **Strong compatibility:** The crimping wire has a large diameter, allowing it to fit a variety of applicators;
- **Safe and convenient:** Equipped with a protective cover for enhanced safety;
The software is simple and user-friendly, with intuitive and quick operation.



Specifications

Type	HBQ-H15A	Wire Diameter Range	120mm² (max)
Slider Stroke	40mm	Terminal Material Thickness	≤2.5mm
Power Supply	220V/50Hz	Times of Stroke	7S.P.M (50mm stroke)
Power	1.0kW	Overall Dimensions	L800 × W750 × H1450mm
Crimping Force	150kN	Weight	320kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-125A HEXAGONAL CRIMPING MACHINE

Introduction

HBQ-125A hexagonal crimping machine is a crimping machine used for crimping tubular terminals and shielding rings. The equipment is used for the production of wire harnesses such as those for electric vehicles, charging piles, and battery cables, achieving the convenience of no applicators replacement. It can adapt to crimping requirements for different wire diameters.

Features

- **High efficiency and cost reduction:** No need to change applicators for crimping different wire diameters, saving applicators-making costs;
- **Stable and durable:** With a brand-new mechanism design, the crimping force remains stable and does not decay at different closing heights, meeting the crimping requirements of larger – square – section cables;
- **High universality:** Capable of crimping tubular terminals and shielding rings;
- **Precise adjustment:** Independent motor adjusts the crimping height and automatically compensates for height;
- **Multiple configurations available:** Optional manual and automatic positioning devices to meet different customer's needs;
- **Easy operation:** Touch screen control, setting parameters, jogging operation, and accessing process recipes are more convenient;
- **Customization support:** The crimping length can be customized according to requirements.

Specifications

Type	HBQ-125A	Crimping Force	250kN
Power Supply	220V/50Hz	Wire Diameter Range	6~120mm ² (tubular type / shielding ring)
Power	2.0kW	Terminal Material Thickness	≤2mm
Crimping Length	12mm (customizable)	Times of Stroke	20 S.P.M
Crimping Width	3~16mm	Overall Dimensions	L800 × W800 × H1500mm
		Weight	450kg



★ Some extremely hard and solid wires may not be able to be processed, although they are within cross sections. we are willing to offer samples for you if any demands.



HBQ-K642 FPC CRIMPING MACHINE

Introduction

HBQ-K642 FPC crimping machine adopts an ingenious mechanism and a flexible and intelligent control system to achieve the crimping of FPC-series terminal blocks and terminals. This is an FPC-type crimping device that can adapt to a wide range of terminal types, flexibly expand the types of FPC-category terminal blocks, achieve compatibility, and has powerful functions, providing more added value for customers.

Features

- The body is primarily in a clean industrial black tone, with a simple and elegant overall structure;
- Product replacement card applicators, supporting quick change;
- Compatible with FPC-type terminal blocks, with a wide range;
- Equipped with visual inspection function after crimping;
- Autonomous setting of production parameters, suitable for diversified production;
- Friendly human-computer interface, with more intuitive graphical images, improves visibility and operability,

The operation page supports switching between Chinese and English.

Specifications

Type	HBQ-K642
Applicable Terminals (adjustable on request)	5.9mm
Terminal Row Width Compatibility	200mm
Suitable for FPC Flexible Board	2mm
Power Supply	AC220V/50Hz
Power	3000W (max)
Overall Dimensions	L1520 x W950 x H2150mm
Weight	700kg

★ Notes :

1. Please be sure to provide the wire samples to do sufficient test;
2. The above specifications is for standard wire, if any different, specific assessment will provide;
3. Terminal strip row too soft or pitch too dense, it may not be able to process or low efficiency;
4. It's standard with one set of tooling, if any more wires, please order separately.



HBQ-110 FPC CRIMPING MACHINE



Introduction

HBQ-110 FPC crimping machine is a desktop – type piercing crimping machine for flexible flat cable diaphragms. It can be used to continuously crimp two or more terminals, and the crimping quality is stable and reliable.

Features

- **Stability:** The crimping part has a simple structure and operates stably and reliably;
- **High precision:** The transfer mechanism adopts servo control to ensure the crimping position;
- **Safety:** Equipped with a dual-hand activation feature, it is safe and reliable;
- **Convenience:** Small size, minimal footprint, and can be directly placed on a workbench for use.

Specifications

Type	HBQ-110
Crimping Force	20kN
Crimping Stroke	30mm/40mm
Closed Height	119.7mm/135.78mm
Power Supply	220V/50Hz
Overall Dimensions	W800 × D500 × H1050mm
Weight	150kg

OPTIONAL ACCESSORIES

Introduction

Crimp Height Measurement Device

Function

Crimp height measurement Device utilizes a cylinder to drive the measuring head, ensuring force stability during the measurement process. The measurement data is directly transmitted to the host and compared with the target crimping height. If the measured value deviates from the target value or no measurement is carried out, production cannot be started, thus realizing control over the quality of batch processing. The data interfaces include USB and serial ports.

Features

- **More accurate:** Measure with constant force to eliminate force differences;
- **More convenient:** Just press the button to automatically measure;
- **Smarter:** Data is automatically imported and results are automatically verified;
- **Note:** The integrated data function is only applicable to Hacint equipment.

Note: The integrated data function is only applicable to Hacint machines

Specifications

Communication Interface	USB/serial port	Measurement Accuracy	0.002mm
Measuring Range	0~10mm	Overall Dimensions	L60 × W100 × H260mm
Resolution	0.001mm	Weight	1kg

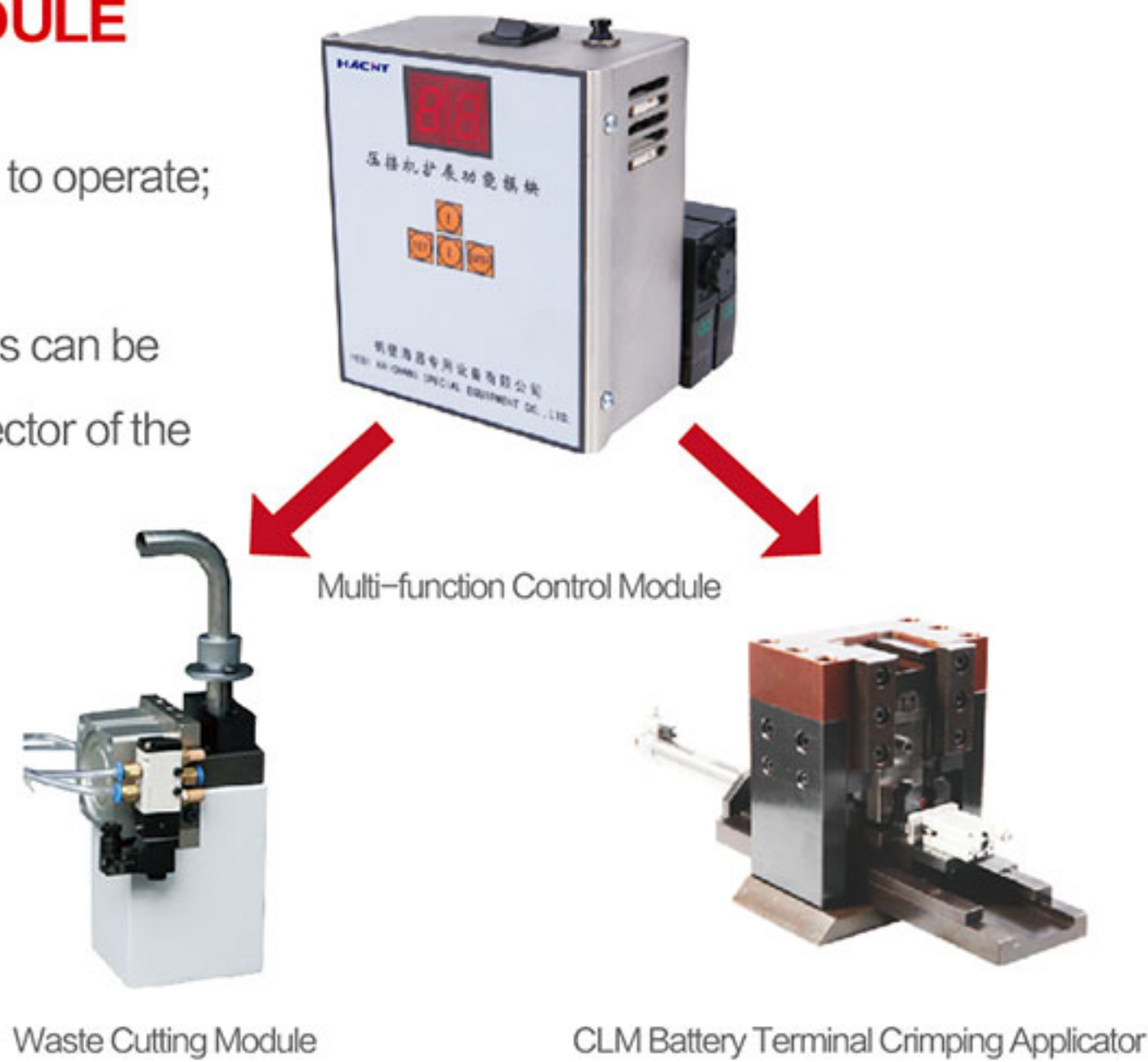


YJFJ-037 MULTI-FUNCTION CONTROL MODULE

- Small in size, easy to install, with a built-in LED display, and simple to operate;
- Change the built-in program to control different modules;
- The waste cutting module and the CLM battery crimping applicators can be perfectly matched with this product through the quick – change connector of the air pipe;
- Low energy consumption, overload protection.

Waste Cutting Module

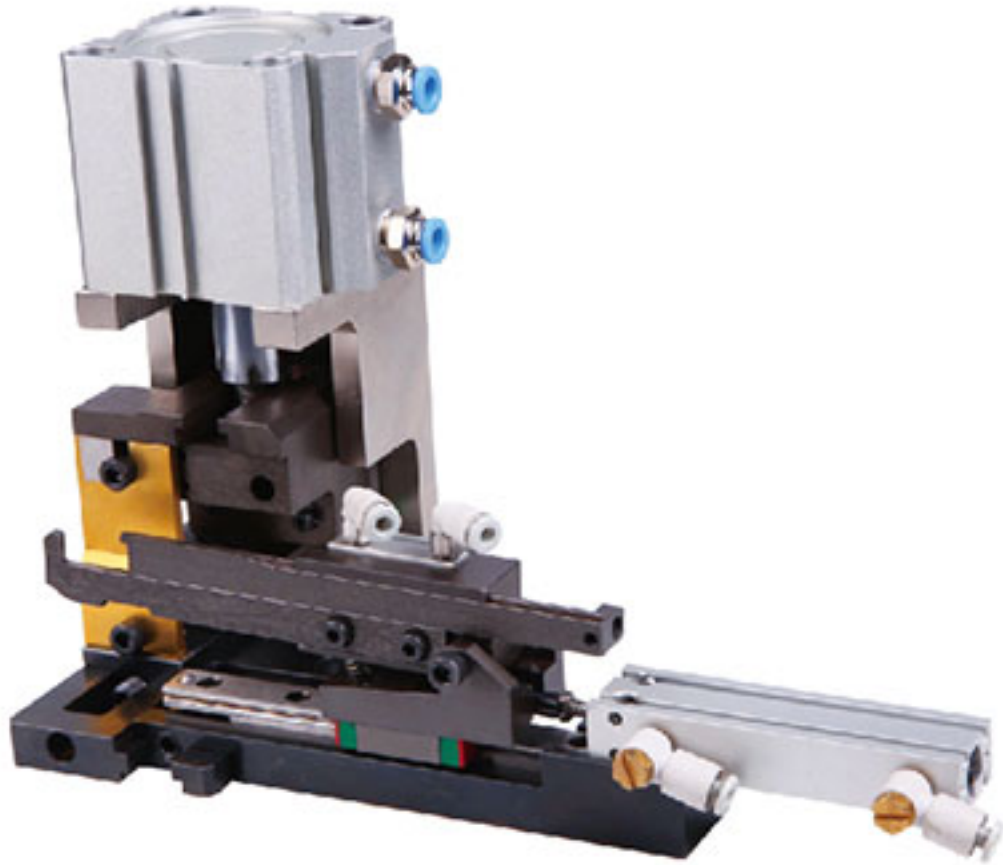
- Perform independent cutting of terminal strips and conduct centralized recycling of scrap materials;
- Prevent waste materials from splashing and scattering during crimping operations to facilitate on-site management;
- Installed below the workbench, with waste materials introduced through a conduit;
- Long blade life and high shearing force.



Introduction

Defective Product Cutting Module

- Connected to the CFM, it is used to remove cables with unqualified crimping;
- In case of pressure management alarms, defective products can be immediately cut off to ensure product quality;
- Can be installed on Hacin's crimping machine;
- Can be used in combination with the tape cutting module;
- The module required for special equipment can be designed and developed separately according to specific circumstances.



BAD CRIMP CUTTER

Paper Winder

- It can be matched with any crimping machine to recycle the remaining paper tape after crimping.
- It is driven by a motor, featuring low noise, stable rotation and long service life.
- It is driven by the friction of a spring, so it won't pull the terminal wheel to rotate during paper winding.



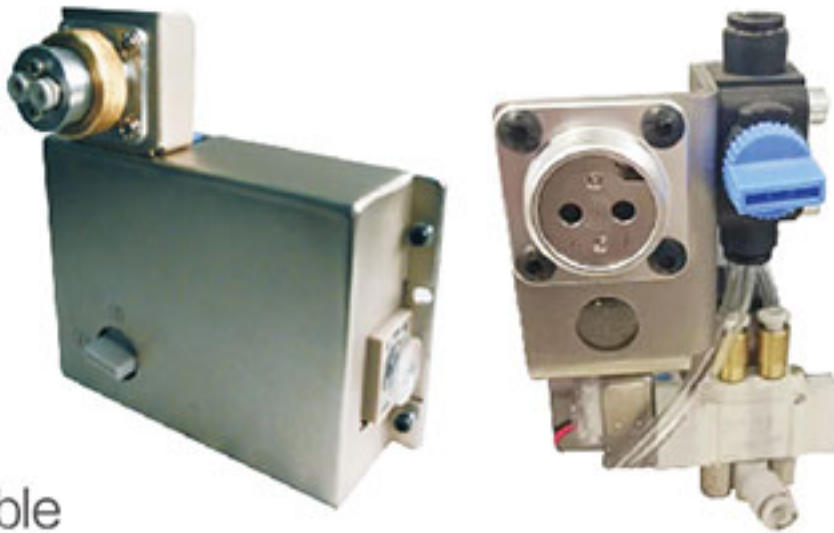
Paper winder



Fast-plug coupler

Pneumatic Feeding Module

- This module is an excellent companion for pneumatic feeding applicators, revolutionizing the traditional practice of requiring a directional valve on every applicators, significantly save applicators investment;
- Equipped with a delay setting function, the reversing time can be precisely adjusted to meet the feeding requirements of various special applicators;
- Compact in size, compatible with various crimping machines;
- The matching quick-change connector for the air tube allows for quick insertion and replacement with various applicators, greatly enhancing efficiency;
- Threaded tightening quick-change connectors and quick-plug connectors are available for selection.



Pneumatic Feeding Module

Shut Height Gauge

- A special measuring instrument for closing height;
- The closing height of all crimping machines in the factory can be unified and calibrated, thereby enabling rapid applicators change and improving work efficiency;
- Built-in preload eliminates mechanical clearance, achieving a measurement accuracy of 0.01mm;
- Two specifications are available: 135.78mm (European style) and 119.7mm (Japanese style).



Shut Height Gauge

HBQ-208 STRIPPING AND CRIMPING MACHINE

Introduction

HBQ-208 stripping and crimping machine is an efficient wire harness production equipment that integrates stripping and crimping for different wire diameters.

Features

- **Integrated design:** Integrating cutting, stripping, and crimping into one;
- **Diversified functions:** It can accommodate different wire diameter processing requirements, with a changeover time of 5 minutes;
- **User-friendly operation:** Manual wire feeding without wire movement; touch-sensitive operation interface, simple and easy to understand;
- **Equipment tidiness:** Equipped with waste material and wire scrap collection devices to maintain equipment tidiness;
- **High equipment accuracy:** The stripping depth is controlled by a servo motor, achieving an accuracy of $\pm 0.02\text{mm}$;
- **Defective product detection:** Equipped with a pressure management device to prevent defective products from flowing into the next workstation.



Specifications

Type	HBQ-208
Power Supply	AC220, 50Hz
Air Supply	5 ~ 7Bar
Power	1.5kW
Crimping Force	20kN
Crimping Stroke	40mm
Wire Diameter Range	0.3 ~ 2.0mm ²
CT	2 ~ 3s
Stripping Length	A ≤ 8mm B ≥ 35mm
Overall Dimensions	L910 × W850 × H2000mm (main body)
Weight	280kg (including packing box)



★ Some extremely hard and solid wires may not be able to be processed, although they are within cross sections, we are willing to offer samples for you if any demands.

HBQ-106C LOOSE CRIMPING MACHINE

Introduction

HBQ-106C is used for processing loose aviation terminals. The operator holds the wire and inserts it into the equipment, which automatically completes the functions of cutting, stripping and crimping of the core wire, providing a one-stop solution to multiple manual operations required in the traditional process. It can conduct real-time stripping detection (optional), pressure detection (optional), and core-wire damage detection (optional). This significantly improves production efficiency, accurately ensures product quality, and offers customers a cost-effective experience.

Features

- **High integration:** Integrating cutting, stripping, and crimping into one;
- **High quality:** Real-time stripping detection (optional), pressure detection (optional), and damaged core wire detection (optional);
- **High efficiency:** The cycle time is approximately 4 seconds (for reference only, slight variations may occur with different wire materials);
- **High precision:** Stripping precision $\pm 0.1\text{mm}$, cutting precision $\pm 0.01\text{mm}$;
- **User-friendly operation:** The length and depth of stripping are controlled and adjusted through software.

Specifications

Type	HBQ-106C
Wire Diameter Range	0.5~4mm ²
Stripping Length	18mm (max)
Crimping Stroke	30/40mm
Crimping Force	20kN/40kN
CT	4s (slight differences for different wires)
Power Supply	220V/50Hz
Air Supply	5~7Bar (dry and oil-free)
Power	1500W
Overall Dimensions	about L1100×W1000×H2000mm
Weight	440kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.



HBQ-210B STRIPPING AND CRIMPING MACHINE

Introduction

HBQ-210B is used for processing housing wires or twisting pairs. The operator holds the wire and inserts it into the equipment. It can separately complete the functions of sealing, cutting, stripping, and crimping for multi-core wires, providing a one-stop solution for the traditionally required 3 steps manual operation. Each functional unit can be independently opened or closed. Real-time sealing detection, color inspection (optional), stripping detection (optional), pressure detection (optional). Significantly improve production efficiency and precision ensure product quality and deliver an exceptional cost-effective experience to customers.

Features

- **High integration:** Integrating cutting, seal loading, stripping and crimping into one;
- **High quality:** Real-time sealing detection, color detection (optional), stripping detection (optional) and pressure detection (optional);
- **High efficiency:** The cycle time is approximately 2.6 seconds (for reference only, slight variations may occur with different wire materials);
- **High precision:** Stripping precision $\pm 0.1\text{mm}$, cutting precision $\pm 0.01\text{mm}$;
- **Long lifespan:** The stripping and cutting tools operate independently, enhancing the lifespan of the tools;
- **User-friendly operation:** The length and depth of stripping can be adjusted through software control;

To replace the product, simply retrieve the corresponding product formula.

Specifications

Type	HBQ-210B
Wire Diameter Range	0.13~2.5mm ²
Stripping Length	A Range: 0~8mm B $\geq 25\text{mm}$ is related to the product (incl. sealing) A Range: 0~8mm B $\geq 18\text{mm}$ is related to the product (excl. sealing)
Sealing Size	2mm < OD < 7mm (others need to be confirmed)
Crimping Stroke	30 mm or 40 mm
Crimping Force	20kN
CT	2.5~3.0s (including sealing) 2.4~2.9s (excluding sealing) for reference only, different wires for different cycle time
Power Supply	220V 50Hz
Air Supply	compress air 5~7Bar, dry and oil-free
Power	1500W
Overall Dimensions	L1100×W1000×H2000mm
Weight	440kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.



HBQ-210D STRIPPING AND CRIMPING MACHINE

Introduction

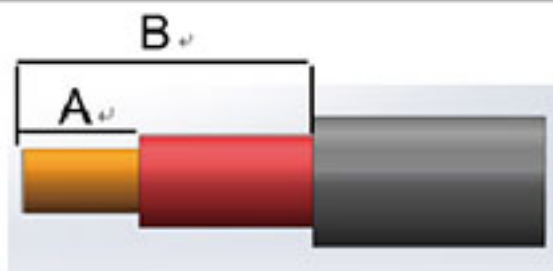
HBQ-210D is applied to processing oversized wires with offering sealing, stripping, zero cutting, and crimping of single wire, and these functions can be realized independently. This one-stop machine solves the traditional 3-step manual tasks, and provides real-time monitoring of seals, stripping and crimping force, which significantly improves efficiency, high quality and cost performance.

Features

- **High integration:** Integrating seal loading, cutting, stripping, and crimping into one;
- **High quality:** Real-time sealing detection, stripping detection, and pressure detection;
- **High efficiency:** The cycle time is approximately 4.5~6.0s for reference only, with slight variations for different wire materials;
- **High precision:** Stripping precision $\pm 0.1\text{mm}$, cutting precision $\pm 0.01\text{mm}$; seal loading precision $\pm 0.1\text{mm}$,
The detection accuracy of sealing is $\pm 0.1\text{mm}$;
- **Long service life:** The stripping and cutting tools are independent of each other, improving the service life of the tools;
- **User-friendly operation:** The stripping length and depth are adjustable through software control;
To replace the product, simply retrieve the corresponding product formula.



Specifications

Type	HBQ-210D
Wire Diameter Range	wire type: single-core, multi-core cross-sectional area: 2.5~16mm ² conductor type: copper or thin wire
Stripping Length	A Size range: 0~11mm B minimum depends on terminal and seal length (B > 40mm in general) <div></div>
Sealing Size	Diameter $\phi D \leq 15\text{mm}$ Length $\leq 18\text{mm}$
C T	Equipment cycle time: 4.5~6.0s
Crimping Stroke	30 mm or 40 mm
Crimping Force	80kN
Power Supply	power supply and power 380v 50hz
Air Supply	compress air 5~7Bar Dry and oil free
Power	4500W
Overall Dimensions	about L1200 × W1000 × H2000mm
Weight	750kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-210E STRIPPING AND CRIMPING MACHINE

Introduction


HBQ-210E is used for processing one to three core wires. The operator holds the wire and inserts it into the equipment, and then separates it can perform the functions of seal loading, stripping, cutting, and crimping for multiple core wires. Each functional unit can operate independently opening and closing. The machine can perform real-time sealing detection (optional) and pressure detection (Suolu), significantly improving high production efficiency.

Features

- **High integration:** Integrating cutting, seal loading, stripping, and crimping terminals into one;
- **High quality:** Real-time sealing detection (optional) and pressure detection;
- **High efficiency:** The cycle time is approximately 3.8~4.2s (including seal loading) or 3.4~3.8s (excluding seal loading) for reference only, with slight variations for different materials;
- **High precision:** Stripping length precision $\pm 0.1\text{mm}$, cutting precision $\pm 0.01\text{mm}$; seal loading precision $\pm 0.1\text{mm}$;
- **Long lifespan:** The stripping and cutting tools operate independently, enhancing the lifespan of the tools;
- **User-friendly operation:** The stripping length and depth can be adjusted through software control;
when changing products, simply retrieve the corresponding product formula.



Specifications

Type	HBQ-210E
C T	3.8~4.2s (include seal loading) 3.4~3.8s (no seal loading) For reference only, it's slightly different for different wires
Sealing Size	2mm < OD < 7mm (larger and smaller diameters need to be confirmed)
Wire Diameter Range	Insulated outer layer multi-core wire (single core, double core, three-core) cross section 0.3~2.5mm ² conductor type: Copper or thin wire 30mm or 40mm <div></div>
Stripping Length	A size range: 0~8mm B minimum size depends on terminal (generally B ≥ 50mm) (include seal loading) A size range: 0~11mm B minimum size depends on terminal (generally B ≥ 42mm) (no seal loading)
Crimping Stroke	30mm or 40mm
Crimping Force	2T
Power Supply	200V 50Hz
Air Supply	compress air 5~7Bar Dry and oil free
Power	1500W
Overall Dimensions	About L1100 × W1000 × H2000mm
Weight	440kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-210F STRIPPING AND CRIMPING MACHINE

Introduction

HBQ-210F is used for processing housing wires or twisting pairs. The operator holds the wire and inserts it into the equipment. It can separately complete the stripping, cutting, and crimping functions of multi-core wires, providing a one-stop solution to the manual operations traditionally required. Each functional unit can be independently turned on or off. It conducts real-time visual inspection of crimping, stripping and pressure detection. Significantly improve production efficiency, accurately ensure product quality, and deliver exceptional value to customers cost-effective experience.

Features

- **Integration:** Integrating cutting, stripping, crimping, and visual inspection into one;
- **Quality assurance:** Conduct real-time stripping detection, pressure detection, and crimping appearance inspection;
- **High accuracy:** Stripping accuracy $\pm 0.1\text{mm}$, cutting accuracy $\pm 0.01\text{mm}$;
- **User-friendly operation:** The stripping length and depth are adjustable through software control; product replacement, just retrieve the corresponding product formula.



Specifications

Type	HBQ-210F
C T	5.8~8.0s (include taking pictures) 2.5~3.0s (exclude taking pictures) for reference only, it's different for different cables
Wire Diameter Range	0.13~2.5mm ²
Stripping Length	A dimension: 1~11mm B \geq 18mm depends on cables
Crimping Stroke	30mm or 40mm
Crimping Force	2 0kN
Power Supply	200V 50Hz
Air Supply	compressed air: 5~7bar , clean and no oil
Power	1500W
Overall Dimensions	About L1200 × W1000 × H2000mm
Weight	440kg



HBQ-109 DUAL-WIRE CRIMPING MACHINE

Introduction

HBQ-109 is a newly developed dual-core stripping and crimping machine for EV by Hacint. It adopts a high-precision servo-motor cutter module and a horizontal conveying structure with an electric cylinder equipped with an absolute encoder. This can ensure that both the stripping accuracy and the crimping position accuracy can reach 0.01mm. The floating wire – grasping mechanism used can ensure the consistency of double – wire crimping at different heights.

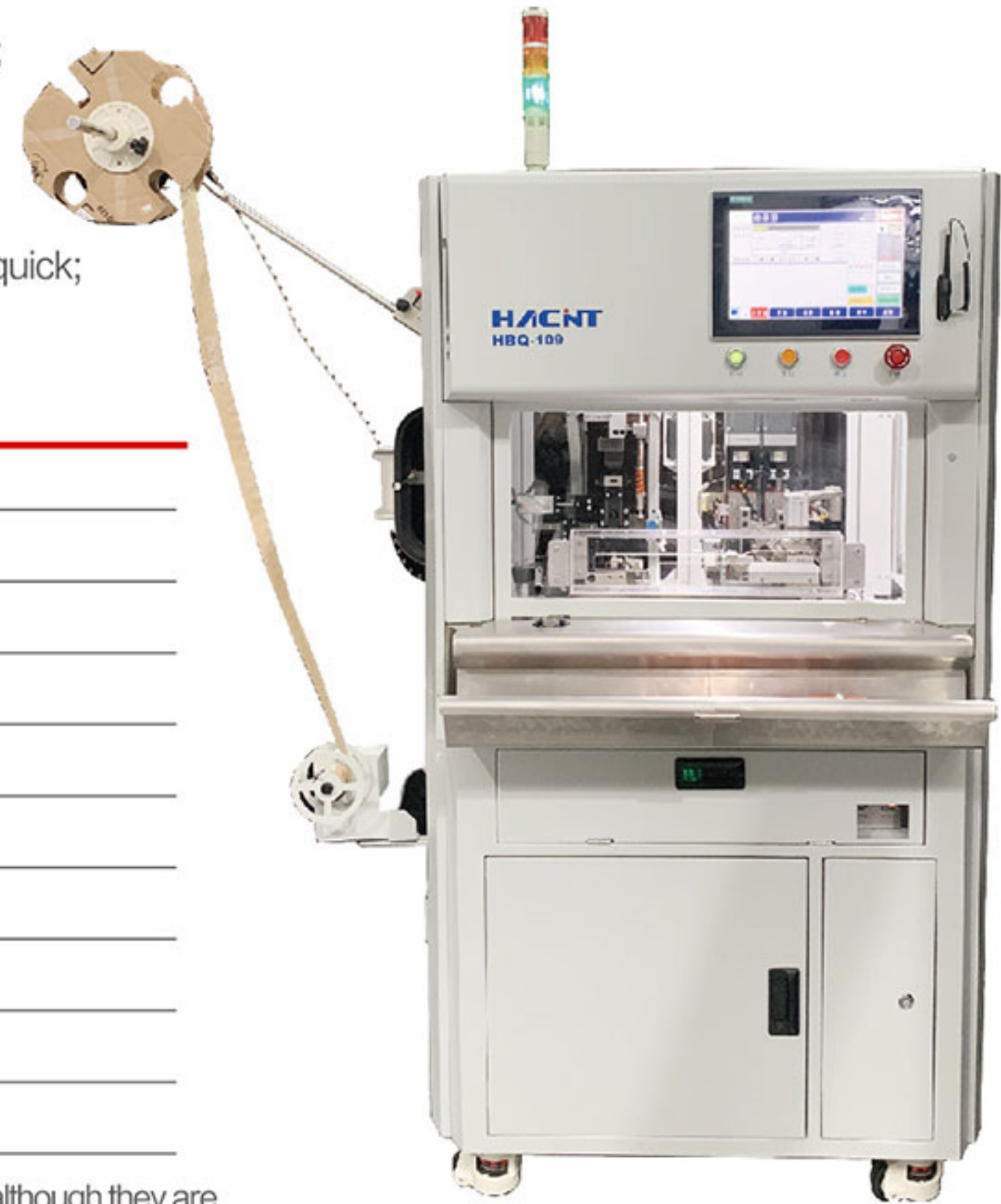
Features

- **Simplicity:** The large touch screen displays various configuration information, making it easy to use and get started;
- **Efficiency:** High production efficiency, with a product cycle of 3.5s~4.5s;
- **Intelligence:** Dual-line automatic color recognition;
- **Durable:** Imported blade material, durable and long-lasting;
- **Multiple choices:** The stripping and crimping modes can be set separately to achieve the optimal production mode;
- **Convenience:** Parameterized adjustment, convenient and quick;
- **Interconnection:** Supports MES networking.

Specifications

Type	HBQ-109
Wire Diameter Range	2.5~4mm ²
Crimping Stroke	30 or 40mm
Stripping Length	0.1~6mm
CT	4~6S
Power Supply	AC220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	L1100 × W1000 × H2000mm
Weight	440kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.



HBQ-902 HARNESS PROCESSING CENTER



Introduction

HBQ-902 harness processing center can complete functions such as cutting, stripping, seal loading, crimping, and terminal insertion into housings for up to 48 wires, saving a significant amount of manpower for wire harness manufacturing enterprises and reduce the number of work-in-process products, enhance the market responsiveness of the enterprise, and improve product quality. This equipment can better adapt to the situation of inserting terminals of multiple housings simultaneously, and has better compatibility with complex terminal – inserting processes involving a variety of terminal – inserting types. This type of equipment adopts a modular design approach, which allows for customized services. It can flexibly adjust the layout of workstations according to the actual production conditions of customers, and has good market applicability.

Features

- **Flexible Expansion:** Controlled by an industrial computer, it is convenient to connect to MES for various functional expansions;
- **Highly Intelligent:** Only manual loading of wires, housings, and terminals is required, and the rest of the processing is automatically completed by the equipment;
- **Simple Operation:** With an intuitive parameter – setting interface, process parameters can be set conveniently and flexibly;
- **Precise Control:** Servo motors are used for peeling, terminal insertion, and wire transfer to accurately control the displacement accuracy;
- **Online Detection:** Equipped with a precision force – measuring device, it can dynamically display the insertion force and extraction force and save the data;
- **Stable Quality:** Equipped with a pressure management device and a defective product management device to prevent defective products from flowing to the next work-station.

Specifications

Type	HBQ-902	Crimping Stroke	40mm
Wire Diameter Range	0.22~2.5mm ² 0.22~6.0mm ² (optional)	Power Supply	AC380V/50Hz
		Air Supply	5~6Bar
Length Range	A: Double-end housings insertion without wire storage required, 280 – 5000mm B: Double-end housings insertion with wire storage required, 600 – 5000mm C: Single-end housings insertion (the other end needs processing), 280 – 2000mm D: Single-end housings insertion (the other end does not need processing), 80 – 2000mm	Power	7~10kW
		Air Consumption	18~26m ³ /h
		Ambient Temperature	-5~+40℃
		Noise Level	≤75dB
Stripping Length	0.5~25mm	Wire Feeding Speed	3.0m/s
Length Accuracy	L < 500mm: ± 1mm; L ≥ +0.2± (1+0.2%*L) mm	CT	1.4~2.5s/hole (different processes result in varying efficiency)
Number of Proce Ssed Wire Harness	≤48 optional		
Crimping Force	20kN	Overall Dimensions	L7650 × W2000 × H2000mm
		Weight	4000~6000kg

★Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-G511B SINGLE-HEAD HOUSING MACHINE



Introduction

HBQ-G511B is an automatic wire harness processing equipment featuring double-ended crimping and single-ended shell insertion. Its functions include crimping, terminal CCD appearance inspection, terminal insertion force and pull-off force inspection, and terminal Shell insertion, etc., suitable for automotive wire harnesses and home appliance electronic wires. The overall layout adopts a modular design, which ensures high efficiency and convenient debugging. It adopts modular changeover, which is efficient in changeover. The key components of the whole machine are imported or from well – known domestic brands to ensure the reliability of the equipment.
HBQ-G511B complete machine includes: 1 set of main machine and 1 set of wire laying machine. The main machine can process wires with lengths ranging from 60 to 2000 millimeters and cross-sectional areas ranging from 0.1 to 2.0 square millimeters.

Features

- **Fully functional:** Wire harness double-ended crimping, single-ended shell insertion;
- **High efficiency:** 1100~1300 lines/h (line length 150mm);
- **Convenient type change:** Modular type change, high efficiency;
- **Easy to operate:** With dual screens at the front and back, it is convenient to operate and the interface is simple.

Specifications

Type	HBQ-G511B
Wire Diameter Range	0.1~2mm ² wires of various colors
Length Range	60~2000mm (length can be customized) , L ≤ 300 time ± 0.5mm, ≥ 300 time ± (0.2%*L ± 1) mm
Capacity Efficiency	1100 – 1300 wires per hour (wire length 150mm)
Crimping Force	Servo 2T
Stripping Length	A:1~10mm; B:1~10mm
Stripping Accuracy	± 0.2mm
Shell Pitch	0.8~10mm
Overall Dimensions	L2400xW3000xH1900mm (product wire length 2000mm, W is customized according to the product wire length, excluding wire pay-off rack, vibrating bowl feeder and conveyor belt)
Weight	1200kg

HBQ-G512 DOUBLE-HEAD HOUSING MACHINE



Introduction

HBQ-G512 automatic double-head housing machine is a wire harness processing equipment featuring automatic double-head crimping and double-head single-wire shell insertion. Functions include crimping, seal loading (optional), pressure management device, terminal CCD appearance inspection (optional), stripping CCD inspection (optional), terminal insertion force and pull-off force inspection, double-ended shell insertion, multi-layer shell insertion, cross-shell insertion, etc. The processed products are applicable to automotive wire harnesses and home appliance electronic wires. The overall layout of the machine adopts a modular design, which is highly efficient and easy to debug. This equipment is equipped with terminal pressure detection, stripping CCD inspection (optional), core wire quantity CCD inspection (optional), terminal CCD appearance inspection, terminal insertion force inspection, terminal pull-off force inspection to prevent defective products from flowing out. Key components are imported or from well-known domestic brands to ensure the reliability of the equipment. The complete machine includes: 1 set of the main machine, 1 set of the wire-feeding machine, a wire-take-up device. The main machine can process wires with a length of 100-700 millimeters and a cross-sectional area of 0.04-2 square millimeters. The wire-feeding machine can hold a maximum of 400 reels (drums) of incoming materials.

Features

- **Comprehensive functions:** Dual-head shell insertion, multi-layer shell insertion; stripping, core wire quantity, terminal appearance CCD inspection, terminal pull-off force inspection;
- **High efficiency:** L=100mm, 1500~1700pcs/h;
- **Quick changeover:** Modular changeover, with the fastest changeover time for plastic shell components being 10 minutes;
- **Convenient operation:** The operation interface is simple and convenient, with wireless operation via PAD, making debugging easy.

Specifications

Type	HBQ-G512
Wire Diameter Range	0.04~2mm ²
Length Range	standard mode 100~700mm (Length can be customized)
Capacity Efficiency	L=100 1500~1700pcs/h (Slightly different according to products)
Crimping Force	Servo 2T
Stripping Length	A:1~6mm; B:1~6mm
Stripping Accuracy	±0.2mm
Length Accuracy	L≤300 time ±0.5 L≥300 time ±(0.2%*L±1) mm
Shell Pitch	0.8~3.96mm
Overall Dimensions	L1600×W1800×H1800mm
Weight	2000kg

HBQ-G515 DOUBLE-HEAD HOUSING MACHINE (V2.0)



Introduction

HBQ-G515 double-head housing machine (V2.0) is a automatic wire harness processing equipment for double-head multi-wire crimping, shelling, tail tin dipping, or double-head multi-wire crimping and shelling. It is suitable for utilizing automotive wire harnesses, home appliance electronic wires and flat cables, the overall layout adopts a modular design, ensuring high efficiency, convenient debugging, and support for rapid type changeover, which can be completed within 1 hour. The equipment is equipped with terminal pressure inspection, stripping CCD inspection (optional), terminal CCD appearance inspection (optional), terminal in-place CCD inspection (optional), NG cutting fool-proofing to prevent defective products from flowing out. Key components are imported or sourced from well-known domestic brands to ensure the reliability of the equipment.

Features

- **Quick changeover:** Quick product changeover within 1 hour;
- **Crimping quality:** No overlap after crimping;
- **High-end accessory configuration:** The entire machine adopts a servo system, with precision grinding of linear motion screw and guide rail, resulting in an exquisite and compact structure with higher efficiency;
- **Blade adjustment:** The stripping process adopts a dual-station design, allowing for easy adjustment of the stripping blades at both the front and rear;
- **Simple interface:** Friendly PC interface, controlled by industrial computer, easy to connect to MES;
- **Humanization:** Front and rear dual screens for convenient debugging.

Specifications

Type	HBQ-G515	Tinning Length	1~8mm
Wire Diameter Range	0.04~1mm ²	Shell Pitch	0.8~3.96mm
Length Range	35~600mm(can be extended for customization)	Overall Dimensions	L1600×W1900×H1800mm (excluding wire feeder)
Capacity Efficiency	L = 100 - when it's one output, 400 - 450 sets per hour (the number of outputs for one operation depends on the product sequence)	Weight	1070kg
Crimping Force	Servo 2T	Optional Accessories	Terminal CCD appearance detection
Stripping Length	A:1~8mm B:1~8mm		Terminal in place CCD detection
Stripping Accuracy	±0.2mm		mechanical drawing component
Length Accuracy	≤300 time ±0.5mm , ≥300 time ±(0.2%*L±1) mm		Take-up can be customized

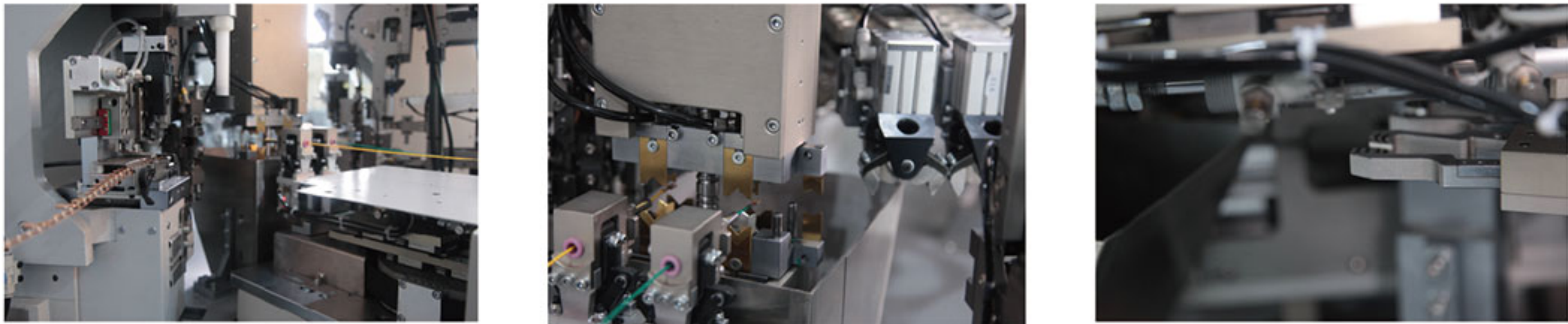
HBQ-922 DOUBLE-WIRE TWISTING CENTER



Introduction

Hbq-922 double-wire twisting center integrates the functions of wire feeding and twisting. Enabling automatic cutting, stripping, seal loading, crimping, twisting and tape binding and so on. This machine can efficiently process twisting wires with a conductor area ranging from $2 \times 0.3\text{mm}^2$ to $2 \times 2.5\text{mm}^2$. Its notable advantages are as follows:

- **Save manpower:** This machine integrates five processes into one: offline, crimping, seal loading, twisting, and tape binding;
- **Provincial logistics:** It saves the material movement between traditional automatic crimping machines and twisting machines;
- **High efficiency:** The processing efficiency can reach up to 3.6 seconds per wire;
- **Fine pitch:** The pitch tolerance can be controlled within $\pm 10\%$;
- **High flexibility:** It can accommodate both twisting and untwisting wire processing modes.



Features

Twisted Pair		Seal Loading	
Tape Wrapping		Crimping	
Cut To Size		Inkjet Marking	
Half Stripping		Crimp Force Monitoring	
Full Stripping			

Other functions

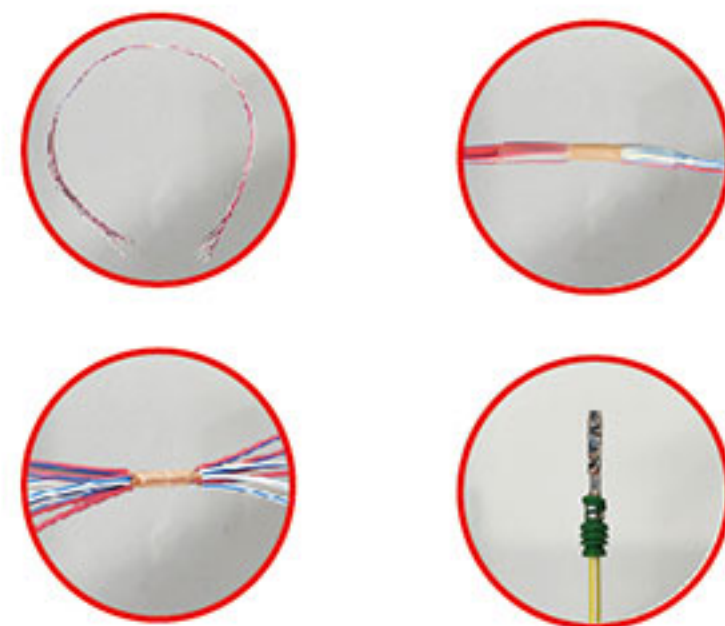
Terminal strip cutting, Paper winder, Automatic collection, Defectives handle(CFM optional), Network, HMES.

Specifications

Type	HBQ-922
Length Range	190~4000mm (standard)
Length Accuracy	$\pm (0.1\%L+1.5\text{mm})$, "L" refers to the wire length
Wire Diameter Range	0.22~2.5mm ²
Stripping Length	0.1~18mm
Opening Length	35~90mm
Uneven Openings Misalignment Length of Twisting Tail	35~120mm
Air Consumption	4.5~10m ³ /h
Number of processed wire harness	2
Twisting Length	190~4000mm (standard)
Twisting Speed	Refer to the efficiency curve chart for details
Pitch Accuracy	(5~80mm) + 10% (the average value of the sum of the distances of any 10 consecutive sections)
Twisting Number	1
Power Supply	380V/50Hz
Air Supply	0.5~0.7MPa
Power	8000W (max)
Overall Dimensions	L8300 × W2200 × H2000mm
Weight	3000kg (standard)
Optional Accessories	FSA – 001E sealing workstation servo crimping machine variable – frequency crimping machine CCD vision inspection CDM core wire defective Detection tape wrapping module terminal crimping height measurement

★Some extremely hard and solid wires may not be able to be processed, although they are within cross sections, we are willing to offer samples for you if any demands.

HBQ-905 MULTI-WIRE SPLICING MACHINE



Introduction

Hbq-905 multi-wire splicing machine is an intelligent manufacturing system for wire harness splicing processing, developed by hacint and possessing independent intellectual property rights. It is primarily used in motor vehicles, communication equipment, it equipment, household appliances, etc. This manufacturing system adopts a servo control system, which intelligently integrates functional mechanisms such as wire feeding, cutting, crimping, seal loading, splicing, heat – shrinkable tube feeding, heat – shrinkable tube sleeving, ultrasonic welding, heat – shrinkable tube centering, heat – shrinkable tube shrinking, qualified product collection, and defective product collection. The entire machine can achieve automatic operation from wire to product throughout the whole process.

Features

- **Flexible expansion:** Controlled by an industrial computer, it facilitates integration into MES and enables various functional expansions;
- **High intelligence:** Only manual loading of wire, sealings, terminals, and heat-shrink tube is required, with all other processing automatically completed by the equipment;
- **Easy operation:** The intuitive parameter setting interface allows for convenient and flexible adjustment of process parameters;
- **Precise control:** The processes of stripping, wire transfer, and welding clamping are all precisely controlled by servo motors to ensure high displacement accuracy;
- **Online inspection:** Equipped with 360° post-weld visual inspection, it monitors welding spatter in all directions;
- **Stable quality:** Equipped with pressure management devices and defective product management devices to prevent defective products from flowing into the next workstation.

Specifications

Type	HBQ-905	Crimping Force	20kN
Wire Diameter	0.35~2.5mm ² (single wire)	Crimping Stroke	40mm
Range	0.7~16mm ² (welding capability)	Power Supply	AC380V/50Hz
Length Range	250~2000mm	Air Supply	5~6Bar
Number of processed wire harness	≤ 18 pieces (optional)	Wire Feeding Speed	3.0m/s
Stripping Length	0.1~15mm	Capacity Efficiency	3 to 4 seconds per piece (efficiency varies with different processes. The CT time for the 2 – in – 3 product process is approximately 18 seconds)
Stripping Accuracy	stripping length ≤ 4.6mm tolerance range ± 0.25mm stripping length ≤ 6.3mm tolerance range ± 0.5mm stripping length ≤ 15mm tolerance range +0.65mm	Heat Shrink Tube Length	loose heat-shrinking tube (opaque round tube), outer diameter of tube: Φ6 – Φ10mm, tube length: 35 – 60mm
Length Accuracy	L<500mm : ± 1mm L> 500mm ± (1+0.2%*L) mm	Overall Dimensions	L7400 × W2100 × H2100mm
Parallel Wires	both ends ≤ 16 pieces (symmetrical welding, single end ≤ 8 pieces) (single end can achieve at most 3 wire diameters and combine 8 wires)	Weight	5500kg

HBQ-903 CONTROL CABINET WIRE HARNESS PROCESSING CENTER



Introduction

HBQ-903 is an automated processing center developed for the power distribution cabinet industry. It can achieve functions such as automatic wire feeding, stripping, number tube loading, thermal printing, automatic material selection for various types of discrete terminals, automatic jaw switching for crimping, visual inspection of product appearance, and automatic wire collection and bundling. The improvement of the automation level can perfectly address the shortcomings of traditional manual operations, such as complex processes, high labor intensity, and inability to guarantee quality. This equipment adopts a modular design concept and can provide customized services. It can flexibly adjust the workstation layout according to the actual production situation of customers, and has good market adaptability.

Features

- **Intelligent work order import:** Customers can remotely place orders or manually input production schedules through the MES system;
- **Automatic switching of different wires:** It can support up to 36 types of wires for automatic online switching production, with automatic monitoring during the production process;
- **Stable control system:** Utilizing a renowned control system in the industry, the entire production process is controlled by an upper computer, ensuring user-friendly operation;
- **Automatic production of various chain-type terminals:** For chain terminals, integrated automatic cutting, clamping, handling to the crimping position, reducing changeover time, and maximizing production efficiency;
- **Automatic production of various types of discrete terminals:** Through the use of high-precision servo mechanisms to select and handle discrete terminals, precise switching between different terminals can be achieved, enabling one machine to perform multiple functions;
- **Quick switching of multiple crimping jaws:** The jaws are automatically switched using servo motor drive control, matching different types of loose terminals for crimping;
- **Establishment of thermal transfer tube insertion technology:** Independently developed thermal transfer module, with clear and rub-resistant printing effect;
- **Flexible expansion of the work platform:** The work platform can add or remove workstations according to customer's needs, enabling flexible production.

Specifications

Type	HBQ-903	Length Accuracy	± (1+0.2%*L) mm
Wire Diameter Range	0.75~2.5mm ²	Power Supply	380V/50Hz
Stripping Length	0.5~18mm	Air Supply	>0.5 MPa
Length of Number Tube	15~30mm	Number of Processed	6 pcs(according to customer Max 36
Wire Feeding Speed	3m/s (max)	Wire Harness	cables It can be expanded)

HBQ-K203 DATA CABLE INTELLIGENT PROCESSING CENTER



Introduction

HBQ-K203 data cable Intelligent processing center can realize the feeding, stripping of outer skin, brushing of braided mesh, separation of shielding mesh, twisting of shielding mesh, cutting of shielding mesh, housingsing of heat-shrinkable tube, and heating of multi-core shielded wires functions such as shrinking and cutting. The equipment adopts segmented modules that can be flexibly combined with structural design and intelligent control system, allowing for personalized customization according to customer's needs.

Features

- **Simplicity:**
The body is primarily in a clean industrial grey, with a simple and elegant overall structure;
Three-color warning lights provide intuitive prompts for operations based on actual production conditions;
- **Efficiency:**
Manual feeding (long-line pendulum U placement) to achieve production of different formulas for double-ended shielding nets (Customizable automatic feeding);
The processes of stripping, twisting, and casing are all precisely controlled by servo motors for displacement and speed;
The conveyor module performs back-and-forth conveying, with parallel operations at each workstation, effectively enhancing efficiency;
- **Convenience:**
The equipment operates with a formula-based system, allowing for independent setting of production parameters, and enabling quick switching of production process formulas;
With a user-friendly human-machine interface, the more intuitive graphical interface improves visibility and operability.

Specifications

Type	HBQ-K203	Power Supply	AC220V/50Hz
Air Supply	0.5~0.7MPa	Power	7kW (max)
Cutting Range	0~97 mm	Overall Dimensions	L2600×W600×H1500mm
Stripping Length	0~100 mm	Weight	900kg
Wire Diameter Range	outer diameter≤8 mm core wire diameter≤0.5mm		

★Note: The above data needs to be evaluated according to different cables .

HBQ-180E BATTERY CABLE PROCESSING CENTER



Introduction

HBQ-180E battery wire processing center is specifically designed for automotive battery wire harnesses, featuring automatic feeding, stripping, crimping, welding, heat shrinking, and other functions.It adopts unique technologies such as flexible vibrating discs, fully automatic terminal picking and placing by robots, and rapid laser welding, which can significantly improve the quality and efficiency of battery wire processing.

Features

- **Efficiency:** Functions such as wire cutting, stripping, crimping, welding, and heat shrinking are automatically completed, saving turnover time and reducing labor input;
- **Ease of use:** Loose granular terminals are automatically picked and placed by a flexible vibrating disc and robot, and quick changeover can be achieved by simply replacing the positioning fixture;
- **Intelligence:** Automatically adjust various product parameters during switching, integrate visual inspection and temperature detection in multiple stages to ensure process quality;
- **Flexibility:** Modules can be flexibly combined according to different processes of battery cables, such as crimping and welding, heat shrink tube and numbering tubes, etc.

Specifications

Type	HBQ-180E	Capacity Efficiency	10~15 seconds per piece
Wire Diameter Range	10~50mm ²	Power Supply	AC380V/50Hz
Length Range	200~2000mm	Power	15kW
Stripping Length	0~50mm	Air Supply	0.5~0.6MPa
Crimping Force	200kN	Overall Dimensions	L8000×W2000×H2200mm (customized machine)
Crimping Stroke	compatible within 100mm	Weight	about 5000kg (customized machine)

★Non - standard equipment. We are delighted to provide you with customized solutions according to your company's products.

HBQ-961 EV CABLE PROCESSING CENTER



Introduction

HBQ-961 EV cable processing center is designed to provide an efficient, precise and reliable wire harness processing solution, aiming at the characteristics of EVs wire harness industry, such as rapid development and fast product upgrading and iteration. This automatic machine integrates the design concepts of flexibility, modularity, automation and customization. By adjusting the position of modules, adding or reducing modules, it can produce products with different processes, which greatly reduces the equipment investment cost, improves production efficiency, and provides customers with a more flexible production mode.

Features

- **Flexibility:** This is the core advantage of this automated line, which can adjust the equipment layout according to different needs and adapt to the production of various products;
- **Modularity:** The modular design endows this automatic production line with strong scalability and maintainability. The main functional modules of the equipment are designed with standard interfaces, which facilitates users to add, reduce or replace modules. Meanwhile, the modular design also contributes to the rapid installation and debugging of the equipment, significantly shortening the production preparation time;
- **Automation:** Through advanced control systems and sensor detection technology, automation of wire harness processing has been achieved, which not only improves production efficiency and reduces labor costs, but also significantly reduces the impact of human factors on product quality;
- **Customization:** To meet the personalized needs of different customers, we offer customized services. Based on customer requirements, we tailor the layout and functional modules of the equipment to ensure it fully meets their needs. We meet the production needs of our customers. At the same time, we also provide customized production processes and process guidance to help customers achieve efficient production.

Specifications

Type	HBQ-961	Turning Range	5~20mm
Stripping Length	5~60mm	Cutting Range	5~55mm
Wire Diameter Range	2.5~16mm ² 25~95mm ²	Overall Dimensions	customized
Aluminum Foil Cutting Range	5~60mm	Weight	customized

★ Note: The above typical wire processing range needs to be evaluated according to specific products.

HBQ-433 CUTTING MACHINE



Introduction

HBQ-433 cutting machine adopts an elaborate mechanism and a flexible and intelligent control system to achieve fixed-length cutting of large-cross-section wires. It is a cutting machine that can adapt to a wide variety of wire lengths and outer diameters. It offers a neat and beautiful cutting effect with high cutting precision, providing customers with a more cost-effective option.

Features

- **Quick changeability:** The product replacement equipment accessories support quick change, support formula setting, and allow for quick switching between product types;
- **Convenience:** Easy adjustment of cutting length;
- **Diversity:** Autonomous setting of production parameters is suitable for diversified production.

Specifications

Type	HBQ-433	Power Supply	AC380V/50Hz
Wire Diameter Range	wire outer diameter ϕ 4~20mm	Power	3kW
Length Range	150~6000mm	Overall Dimensions	L7500mm × W850mm × H1900mm
Length Accuracy	± 1‰mm	Weight	1500kg

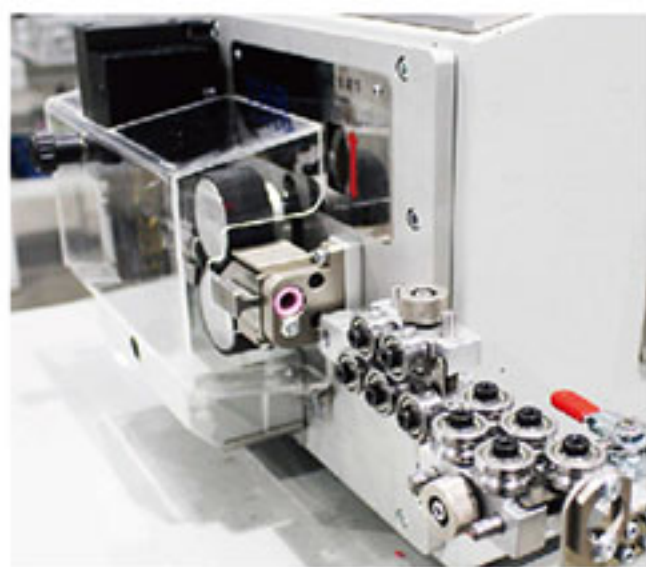
HBQ-041C AUTOMATIC STRIPPING MACHINE

Introduction

HBQ-041C is a machine specifically designed for wire cutting and stripping in the wire harness industry. This machine boasts fast stripping speed, high cutting and stripping accuracy, simple debugging, and convenient operation and so on. It can meet different cable processing applications and achieve rapid production of full and half stripping of cables.



Optional wire retractor



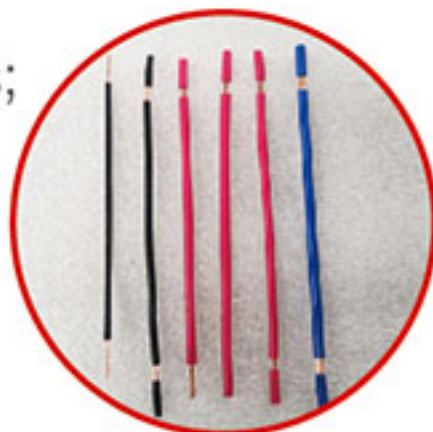
Optional straightening device



HBQ-041C Automatic Stripping Machine

Features

- **Stability:** This machine is controlled by PLC and operated via a touch screen, featuring stable performance and easy operation; The motor drive adopts stepper control, achieving high precision and long service life;
- **Autonomous:** High-speed stripping, with the stripping length and total length arbitrarily set within the wire cutting range; The speeds of wire feeding, cutting, and stripping can be independently set to achieve the best stripping effect; It has functions such as setting total quantity, counting, and delay;
- **Easy to change:** Capable of storing processing data for 500 different specifications and types of wire materials;
- **Durable:** The blade is made of imported material, ensuring long-lasting durability;
- **Safety:** Equipped with a standard protective cover, ensuring safe production;
- **Cleaning:** Equipped with a blade air-blowing function;
- **Peripheral devices:** Equipped with peripheral interfaces, allowing for the integrated control of winding machines and coding machines.



Specifications

Type	HBQ-041C	Power	800W
Wire Diameter	0.3~6mm ²	Stripping	Front end stripping
Range			length 1~47mm
Length Accuracy	± (0.2%L + 0.2) , "L" refers to the wire length		Rear end stripping
Power Supply	AC220V/50Hz	Length	length 1~47mm
Length Range	Short stripping: less than 55mm,the length of the remaining insulation wire skin in the middle is more than 2mmStandard stripping: wire length is more than 55mm, and the length of the remaining insulation wire skin in the middle is more than 51mm	Overall	DimensionsL475 × W412 × H300mm
		Weight	
			46kg

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-421 AUTOMATIC STRIPPING MACHINE

Introduction

HBQ-421 automatic stripping machine is the latest wire harness manufacturing system developed by Hacint, featuring independent intellectual property rights. It is mainly used in the production of wire harnesses for electric vehicles, communication equipment, charging piles, etc. This manufacturing system adopts a servo control system, achieving automated production of processes such as fixed – length wire feeding, fixed – length cutting, and multi – layer rotary peeling. It is an automatic, flexible, and precise wire harness manufacturing system that integrates control methods of optics, machinery, and electricity.

Features

①: Cutting

②: Middle – opening wire processing

③: Non – shielded processing

④: Semi/full stripping at both left and right ends

⑤: Multi – stage stripping



Specifications

Type	HBQ-421
Length Range	160 ~ 99999.99mm
Length Accuracy	± (0.2%L+1)mm
Stripping Length	Left 130mm, right 260mm
Wire Diameter Range	6~120mm ²
Wire Feeding Speed	2m/s
Power Supply	AC380V/50Hz
Air Supply	0.5 ~ 0.7MPa
Power	5kW
Overall Dimensions	L1460 × W700 × H1500mm
Weight	700kg
Optional Accessories	Standard: 1 set of wire diameter guide, two pairs of V-blade, for more wire size, please order separately.
	Optional: guide, arc blade, The open module can only be added with the host machine, and cannot be added later MES, etc.

★ Important note: due to various types and specifications of wire, the actual processing capacity shall be subject to cable sample testing.

HBQ-423 AUTOMATIC STRIPPING MACHINE

Introduction

HBQ-423 automatic stripping machine is mainly used for the production of wire harnesses such as EV wires, battery wires, and housing wires. It adopts an all-in-one computer touch screen and a servo control system. Combined with the automatic adjustment of the pressure of the wire-feeding belt, it realizes the automated production of processes such as fixed-length wire feeding, fixed-length cutting, and multi-layer rotary peeling of wire harnesses. It features high processing accuracy and stable quality.

Features

- **Miniaturization:** Modular design provides more room for choice;
- **Diversification:** A variety of processing methods are available, including rotary cutters, V-shaped cutters, and circular arc cutters;
- **Quick changeability:** Capable of storing processing data for 500 different specifications and types of wire materials.

Specifications

Type	HBQ-423
Length Range	70~99999.99mm
Length Accuracy	± (0.2%L+1) mm
Stripping Length	Left 100mm, right 135mm
Wire Diameter Range	2~12.5mm Left (unshielded 1~35mm ² , The max shielded wire is 25mm ²)
Wire Feeding Speed	4m/s
Power Supply	AC380V/50Hz / 0.5~0.7MPa
Air Supply	0.5~0.7MPa
Overall Dimensions	L870 × W830 × H440mm
Weight	330kg
Optional Accessories	Standard: 1 set of wire diameter guide, two pairs of V-blade, for more wire size, please order separately. Optional: lower machine frame, rotary cutting module, straightener, guide, arc blade, MES, etc.

★ Important note: due to various types and specifications of wire, the actual processing capacity shall be subject to cable sample testing.

HBQ-429 STRIPPING MACHINE



Introduction

HBQ-429 is an stripping machine that can process cable cross-sections ranging from 0.05 to 6 mm², with a maximum cable outer diameter of 6mm. It can handle cables of different sizes without any mechanical adjustment. The operator only needs to select the required cable size through the touch screen, and the machine will be ready for processing, as the parameter values corresponding to these sizes have been pre – stored in the program repository. When the end of the cable touches the sensor, the device starts the peeling process.

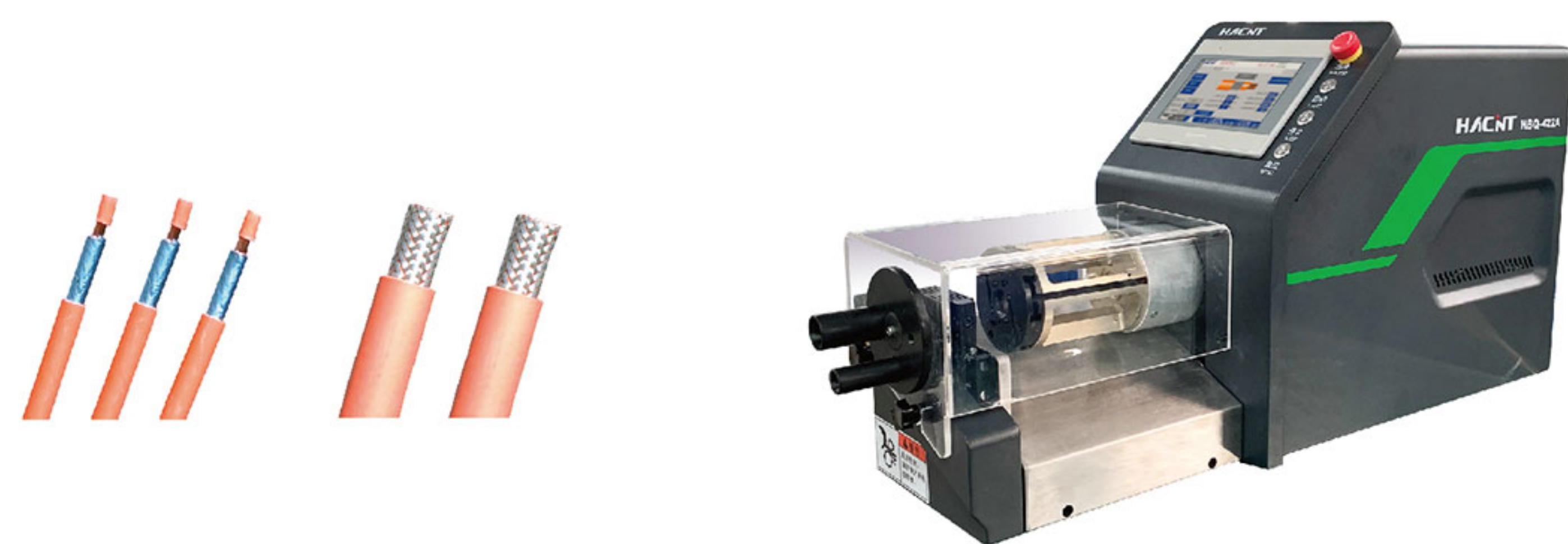
Features

- **Miniaturized design:**
The equipment is compact in size and lightweight, allowing for easy movement and placement by a single person;
- **Diversified production:**
It can adapt to the processing of cables with different specifications and adopts an upper – lower double – blade mode. The upper blade is used to process ordinary wires with a cross – sectional area of 2 mm² and below, while the lower blade is used for ordinary wires with a cross – sectional area above 2 mm² . It can also be replaced with customized blades for processing special wires ;
- **User-friendly operation:**
An open production parameter setting window with multi-recipe setting and storage function, facilitating quick production changeover and calling;
- **Operational safety:**
Fully protective production mode ensures operational safety;
The interface features a multi-level password and multi-layer permission management design, ensuring that important data is protected from loss or alteration;
- **Multi-interface transmission:**
It can be connected to the MES system using RJ45 and RS485, and data backup can also be performed through a USB interface.

Specifications

Type	HBQ-429
Wire Diameter Range	0.05~6mm ² (maximum outer diameter ϕ 6mm)
Stripping Length	3~40mm (standard) , 0.5~40mm (cutting)
Formula Capacity	500 pieces
Interface Type	USB, RS485, RJ45
Power Supply	AC220V/50Hz 350W
Overall Dimensions	L400 × W150 × H250mm
Weight	12.5kg

HBQ-422A ROTARY STRIPPING MACHINE



Introduction

HBQ-422A rotary stripping machine, newly developed by Hacint, is a novel equipment specifically designed for processing coaxial cables, and is fully applicable to the processing of new energy cables.

Features

- **Miniaturization:** The equipment is compact in size and lightweight, making it very convenient to move and place;
- **Diversification:** Adapt to diversified processing and production of cables of different specifications;
- **Autonomy:** Open production parameter setting window, multi-recipe setting and storage function, facilitating rapid production changeover and recall;
- **Safety:** Fully protected production mode ensures operational safety; multi-level password interface;

The multi-layered permission management design ensures that important data is not lost or altered.

Specifications

Type	HBQ-422A
Wire Diameter Range	3~18mm (coaxial cable)
Stripping Length	100mm (max)
Number of Stripping Layers	9 layers (max)
Adjustment Accuracy of Feed Knife	0.01mm
Length Accuracy	0.01mm
Power Supply	AC220V/50Hz
Power	400W
Overall Dimensions	L816 × W270 × H418mm
Weight	36kg

★ For so many variety of cable sizes and types, some wires may not be processed well even if wire size applicable. It is recommended that you provide corresponding cable samples for product testing.

HBQ-426 STRIPPING MACHINE



Introduction

HBQ-426 stripping machine is a multi-step programmable stripping machine, which is used for the rotary cutting and stripping processing of coaxial, multi-core and single-core wires.

Features

- **Wide range:** Processing wire diameter of 5~30mm, stripping length up to 200mm;
- **High precision:** The 4-blade concept design results in clean and highly precise cuts;
- **Long service life:** The motor drive adopts servo control, which ensures high precision and long service life;
- **Ease of use:** This machine is controlled by PLC and operated via a touch screen, featuring stable performance and simple operation;
- **Quick changeover:** Multi-formula setting and storage function, facilitating quick production changeover and call-up;
- **Safety:** The fully protected production mode ensures operational safety;
- **Convenience:** With a mobile device chassis design, it is easy to move for production line changeover.

Specifications

Type	HBQ-426
Wire Diameter Range	5~30mm (diameter)
Stripping Length	200mm
Number of Stripping Layers	9 level
Adjustment Accuracy of Feed Knife	0.01mm
Stripping Accuracy	0.01mm
Power Supply	AC220V/50Hz
Formula Capacity	100 types cable processing data
Power	1200W
Overall Dimensions	L1190 × W400 × H1335mm
Weight	200kg

HBQ-225B/C/D ELECTRIC VEHICLE WIRE HARNESS
PROCESSING MACHINE

Introduction

HBQ-225B/C/D electric vehicle wire harness processing machine adopts an elaborate mechanism and a flexible and intelligent control system. It realizes fixed – length circumferential stripping of the inner and outer insulation of wires, fixed – length cutting and turning – over of the shielding net. It is a multi – functional device that can adapt to a wide variety of cables and meet different technological requirements of customers.



Features

- **Function integration:** It can complete the stripping of outer insulation (without the use of aluminum foil), cutting of shielding mesh, and turning over of shielding mesh for high-voltage wires in one operation; Strip the inner insulation layer, and various functions can be freely combined and switched;
- **Operational safety:** Contact – type triggering and two – hand start ensure both the safety of personnel and effectively meet the requirements for product length dimensions;
- **User-friendly interface:** The humanized operation interface is simple to operate, and the more intuitive graphical display has been improved, It features both visibility and operability, and supports switching between Chinese and English;
- **Optional:** Wire diameter detection function can be optionally equipped to avoid wire selection errors;
- **Compact structure:** The equipment is compact in size, fast in action, and reliable in product quality;
- **Customizable:** The machine has strong scalability and can accept specialized customization;
- **Function integration:** It can complete the stripping of the outer insulation of high-voltage wires (without the use of aluminum foil), cutting of shielding mesh, turning over the shielding net, brushing and turning over the cut shielding net (only available for 225D), and strip the inner insulation layer, various functions can be freely combined and switched.

Specifications

Type	HBQ-225B	HBQ-225C	HBQ-225D
Cutting Length	5~80mm	5~200mm	5~200mm
Stripping Length	5~80mm	5~200mm	5~200mm
Wire Diameter Range	3~95mm ²	3~95mm ²	3~95mm ²
Turning Length	5~20mm	5~20mm	5~20mm
Brush Net Range	/	/	5~30mm
Power Supply	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz
Power	3.5kW	3.5kW	4kW
Overall Dimensions	L1400 × W930 × H1530mm	L1700 × W930 × H1530mm	L1700 × W1250 × H1530mm
Weight	670kg	670kg	670kg

- ★ Note:
1. According to the customer process, the operation mode can be changed , such as: the cable without aluminum foil, strip outer insulation, cut shielding net , turn over shielding net , strip inner insulation) ;
 2. please provide cable samples for different cables;
 3. There are many types of shielding net, for some soft network , it may not be processed or processing efficiency is low;
 4. Standard with one set of wire diameter tooling, if any other wires, please order separately;
 5. Optional function for wire diameter detection;
 6. In the same process, the stripping length should be more than 5mm;
 7. For different wire diameter or size, cutting shielding mesh and turn over shielding mesh need corresponding blades and tools.

HBQ-224 ELECTRIC VEHICLE WIRE HARNESS
PROCESSING MACHINE



Introduction

HBQ-224 electric vehicle wire harness processing machine features functions such as stripping of internal and external insulation, looping, cutting of shielding mesh, turning over the shielding net and visual inspection. It meets customers' needs for EV wire harness processing demand. In terms of operation, industrial computers are used for control, with a user-friendly interface that is simple, easy to understand, and easy to learn and use, offering good economic efficiency and practicality.

Features

- **Safety:** The feeding system adopts intelligent inductive triggering positioning, ensuring greater safety and precision;
- **Efficiency:** Automatic parallel operation at each workstation, resulting in high production efficiency;
- **Flexibility:** Different products can be produced compatibly by changing tooling;
- **Convenience:** Capable of storing up to 100 sets of process parameters.

Specifications

Type	HBQ-224
Wire Diameter Range	2.5~16mm ² , 25~95mm ²
Outer Stripping Length	5~60mm
Cutting Length	5~55mm
Turning Length	5~20mm
Power Supply	AC380V/50Hz
Power	10kW
Overall Dimensions	L3700 × W1700 × H2100mm
Weight	3000kg

- ★ Note:
1. The equipment can be customized according to the customers' requirements;
 2. In view of the variety of wire sizes and types, some wires can not be processed even if they are within the above processing range, please be sure to provide wire samples;
 3. Standard with a set of wire diameter tooling, if any other wires, please order separately.

FSM-001A SEAL LOADING MACHINE



Introduction

FSM-001A is a semi-automated machine that enables seal loading by holding the wire manually. It installs seals at the end of the wire whose insulating insulation has been stripped. It features automatic feeding, material delivery and automatic loading functions. This machine replaces the traditional manual operation method, not only improving work efficiency and product quality, but also reducing the labor intensity of employees.



Features

- **Operation interface:** Visual operation is adopted, allowing for single-step, reset, timing, I/O detection, and parameter setting;
- **Automatic feeding:** The automatic feeding is achieved through the rotation of a roller, which is both silent and energy-efficient;
- **Easy to operate:** Three modes, namely foot-operated, timed, and automatic sensing, are available to meet different customer's needs;
- **Track characteristics:** Sealing track can be replaced individually, quickly, and at a lower cost for customers.

Specifications

Type	FSM-001A
Sealing Size	9 × 10mm (max diameter * length)
Inner Diameter of Seal	0.6~3.0mm
Sealing Length	15mm (max)
Wire Diameter Range	1~3.6mm
Capacity Efficiency	70pcs/min (max)
Power Supply	AC220V/50Hz
Air Supply	0.5~0.6MPa
Power	100W
Overall Dimensions	L640 x W220 x H640mm
Weight	60kg

★ Note: Some special seals may be not handled, even if they are within the range of requied values. we are willing to offer samples for you if any demands.

WPP SEAL APPLICATOR

Introduction

WPP seal applicator is a feeding module that can automatically screen and arrange seals. It is individually designed for each type of seals, and its modular docking structure can perfectly accommodate a variety of sealing workstation.



Features

- **Quick-change structure:** The convenient and easy-to-change overall structure and spare parts save you every second;
- **Superior rust resistance:** Track in bright silver, box body with plastic spraying;
- **High compatibility:** Compatible with most European-style seal loading workstations on the market;
- **Dual sensors:** Capable of achieving automatic alarming without end plugs and automatic back-blowing of track plugs;
- **Wide applicability:** Ordinary, mini, oversized, hard shell, high tail, and irregular shape.

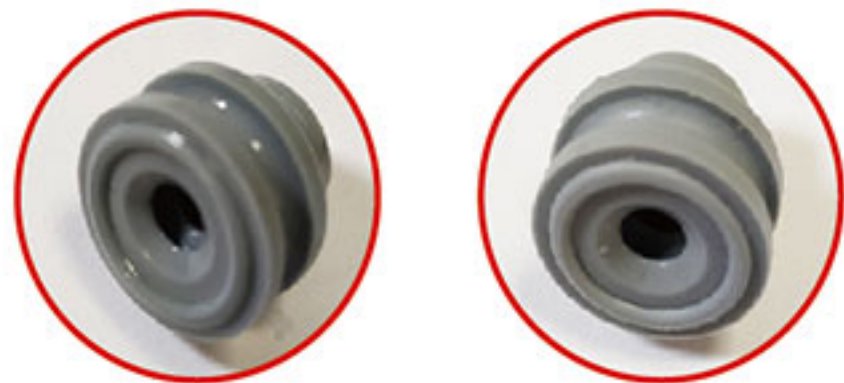
Specifications

Type	WPP
Applicable Sealing Type	Regular, mini, Ultra large, Hard cover, long tail, Special shape seals
Power Supply	24V
Feeding Way	Vibration feed
Overall Dimensions	L540 × W90 × H320mm
Weight	7kg
Optional Accessories	3 needles, 2 tubes, 1 jaw

FSY-001 SEAL DE-OILER

Introduction

FSY-001 is a specialized cleaning machine designed for seals and oil removal. When the amount of oil on seals is excessive or when the feeding of seals in the supporting facilities is not smooth, using this machine can effectively solve these problems. It can be set to operate at fixed intervals and does not require constant supervision during processing. It is small in size, saving space, lightweight, and easy to move.



HBQ-Z209B ROD INSERTION MACHINE



Introduction

HBQ-Z209B rod insertion machine utilizes an integrated platform, dual servo drives, and an industrial PC system to achieve accurate and rapid insertion of rods. This is a machine that can adapt to a wide variety of formulas and meet high product demand. It replaces manual labor in inserting rods into the housing.

Features

- **Strong compatibility:** Integrated platform, dual-blocking configuration requires only the main unit;
- **Energy saving and noise reduction:** Roller feeding reduces noise and air consumption;
- **Strong stability:** Imported encapsulated vibration motor provides strong and stable vibration;
- **Quick changeover:** Optional nozzle allows for insertion of up to four plugs without changing the type;

Tool-free changeover design makes switching products easier;

- **Convenient operation:** Industrial PC with user-friendly interface, easy to operate;

Optional visual detection, flexible housing position;

The secondary screen can display all the visual results clearly.

Specifications

Type	HBQ-Z209B	Processing Precision	± 1mm
Quantity of Stored Material	2 ~ 8 housings (determined according to the size of the housings)	Power Supply	AC220V/50Hz
		Air Supply	0.5~0.6Mpa
Plug Type	Axisymmetric plug	Power	3kW (max)
Single hole insertion speed	0.5~1s (according to the type of rods and plugs)	Overall Dimensions	L1200 × W1000 × H1800mm
		Weight	700kg

★ Notes :

1. Technical confirmation is necessary for the specific processed products;
2. The feeding machine can be selected if more than two kinds of processed products,
3. If the product inserted into the housing is higher than its surface, it will reduce efficiency;
4. To keep plug inserting smoothly, silicone oil need to be purchased separately.

HBQ-Z215C PLUG AND ROD INSERTION MACHINE



Introduction

HBQ-Z215C plug and rod insertion machine is a machine for automatically assembling rods, plugs and housings. The brand-new integrated platform can accommodate a variety of housings. It supports the mixed insertion of soft rods and special-shaped plugs into housings. Meanwhile, it can be updated and designed according to different customer requirements to provide customized solutions.

Features

- **High efficiency:** High efficiency through alternating processing with dual carriers;
- **Applicability:** Manually putting housings, with a wide range of applicable housings;
- **Compatibility:** Capable of processing special plugs and irregular plugs, rods and plugs freely matched, and compatible with a wide variety of types and quantities;
- **Safety:** The lifting safety door isolates the operation area from the processing area, ensuring high safety;
- **Quick changeover:** Modular quick-change design allows for tool-free quick changeover; simply change the carrier and pressure plate for a low cost of changeover;
- **Profiling:** Process formulas are profiled, with coordinate data that can be freely edited, enabling rapid establishment of processes;
- **Vehicle error prevention:** The vehicle is designed with error prevention features to prevent the housings from being misplaced;
- **Visual inspection:** Pre-inspection of housings to prevent unremoved processed housings, and detection of missing, multiple, or incorrect insertion of plugs and rods in finished products;
- **Multi-level permissions:** Multi-level permission management design ensures that important data is not lost or altered;
- **Automatic material arrangement:** Automatically separate NG products within the equipment to prevent defective products from being released (optional);
- **Convenient operation:** The user-friendly human-machine interface and intuitive graphical display enhance visibility and operability;
- **Industrial design:** The brand-new appearance design features a simple and elegant overall structure.

Specifications

Type	HBQ-Z215C	Processing Precision	± 1mm
Quantity of Stored Material	2~8 housings (determined according to the size of the housings)	Power Supply	220V/50Hz
		Air Supply	0.5~0.6MPa
Plug Type	Special-shaped rods & soft plugs	Power	2.5kW
Housing Type	0.5~1s (according to the type of rods and plugs)	Overall Dimensions	L1600 × W1300 × H1900mm
		Weight	950kg

★ Notes :

Customized solution can be provided according to the samples;
Equipment continues to upgrade, the dimension, weight for reference only;
More processing actions for very few plugs which are special shape, and the efficiency will be low;
Silicone oil needs to be added when inserting some plugs. Some spare parts need to be purchased separately.

HBQ-Z215D FULL-FUNCTION PLUG AND ROD INSERTION MACHINE



Introduction

HBQ-Z215D full-function plug and rod insertion machine is a full-function machine capable of automatically inserting plugs and rods into housings. It boasts a large housing capacity, high processing efficiency, and allows for one person to operate multiple machines. It exhibits strong compatibility and can handle special and irregular plugs can be randomly matched. It features a modular quick-change design, resulting in low cost for type changes. It includes carrier error prevention and visual inspection, automatic feeding and other functions, and can be optionally equipped with intelligent configurations such as defective detection. It is easy to operate and has a simple appearance. At the same time, we can provide customized solutions according to customer's needs, meeting their diverse requirements.

Features

- **Large capacity:** It can accommodate up to 6 sets of carriers for processing at once, with carriers in A/B areas alternate processing;
- **High efficiency:** Dual three-axis collaboration, where the A axis performs the insertion task while the B axis—three axes are used for auxiliary work other than insertion;
- **Transferability:** One person can operate multiple machines;
- **Compatibility:** Capable of processing special plugs and irregular plugs, rods and plugs can be randomly matched. It can be compatible with a wide variety of types and quantities;
- **Safety:** The lifting safety door isolates the operation area from the processing area, ensuring safety;
- **Quick changeover:** Modular quick changeover design, tool-free quick changeover; For model change, simply replace the carrier and the pressure plate. The cost of model change is low;
- **Carrier Error Prevention:** The carrier is designed with an error prevention function to prevent the wrong placement of housings;
- **Visual Inspection:** Pre-inspection of the housings prevents the situation where processed housings are not taken out. It can detect missing insertion, excessive insertion, and wrong insertion of the finished rods;
- **Automatic Material Discharge:** Automatically separate and exclude NG and OK materials;
- **Defective Detection:** Defective detection of rods (optional);
- **Intelligent Identification:** Use RFID for intelligent detection to check whether the quick-change fixture is correctly installed (optional);
- **Intelligent Cart:** An intelligent carrier cart is used to store carriers and shaping fixtures, and it can be opened by scanning a code (optional);
- **Convenient Operation:** With a user-friendly human-machine interface and intuitive graphic display, it improves visibility and operability;
- **Profiling:** Process formula profiling, and the coordinate data can be freely edited, enabling the rapid establishment of the process;
- **Multi-layered Permission:** The design of multi-layered permission management ensures that important data will not be lost or altered;
- **Industrial Design:** With a brand-new appearance design, the overall structure is simple and elegant.

Specifications

Type	HBQ-Z215D	Processing Precision	± 1mm
Quantity of Stored Material	6~24 housings (determined according to the size of the housings)	Power Supply	AC220V/50Hz
		Air Supply	0.5~0.6Mpa
Housing Type	No restrictions	Power	2.5kW
Plug Type	special-shaped plugs & soft rods	Overall Dimensions	L1700 × W1600 × H1900mm
Single hole insertion speed	0.5~1s (according to the type of plugs and rods)	Weight	1300kg

★Remarks:

For customized equipment, the solution needs to be determined based on samples;

As the equipment is continuously upgraded, the appearance dimensions and weight shall be subject to the actual product.

The shapes of very few plugs are special, with relatively more processing operations, which may lead to a reduction in efficiency. For some rods, silicone oil needs to be added during insertion, and consumables need to be ordered separately.

HBQ-Z215E AUTOMATIC PLUG AND ROD INSERTION MACHINE



Introduction

HBQ-Z215E automatic plug and rod insertion machine is a machine that automatically performs rods and plugs insertion into housings without human intervention. It features a large housing capacity and high processing efficiency. It supports the mixed insertion of various types of housings and special plugs. It features unmanned automatic feeding, fast and low-cost type change, error prevention for carriers, visual inspection, and other functions. At the same time, it can be customized according to customer's needs. We offer customized solutions to meet the diverse needs of our customers.

Features

- **Large capacity:** With a large-capacity silo, materials can be replenished at any time during the production process;
- **High efficiency:** Mechanical hands are used for loading and unloading, paired with dual carriers for alternating processing, resulting in high efficiency;
- **Compatibility:** With the combination of a flexible disc and visual coordination with a robotic gripper, it is widely applicable to various protective covers;
- **Unmanned:** Automatic feeding of housings, plugs and rods;
- **Quick changeover:** The changeover only requires replacing the carrier and the pressure plate; the pressure plate is designed for quick changeover, allowing for rapid changeover without tools;
- **Low cost:** Adding a housings only requires adding a carrier and a pressure plate, resulting in low changeover cost;
- **Carrier error prevention:** The carrier is designed with fool-proof features to prevent the housings from being misplaced;
- **Visual inspection:** Inspecting whether there is blind blockage in the materials to be processed, and detect whether there is missing, excessive, or incorrect insertion of blind blocks and rods in the finished products;
- **Automatic material sorting:** Automatically separate and exclude NG and OK materials;
- **Convenient operation:** The user-friendly human-machine interface and intuitive graphical display enhance visibility and operability;
- **Profiling:** Process formula profiling, and the coordinate data can be freely edited, enabling the rapid establishment of the process;
- **Multi-level permissions:** Multi-level permission management design ensures that important data is not lost or altered;
- **Industrial design:** The brand-new appearance design boasts a simple and elegant overall structure.

Specifications

Type	HBQ-Z215E	Processing Precision	± 1mm
Quantity of Stored Material	6~50 pieces (according to the size of the housings)	Power Supply	AC220V/50Hz
		Air Supply	0.5~0.6Mpa
Housing Type	no restrictions	Power	2.5kW
Plug Type	special-shaped plugs & soft rods	Overall Dimensions	L2400 × W1200 × H1900mm
Single hole insertion speed	0.5~1s (according to the type of rods and plugs)	Weight	1600kg

★Remarks:

For customized equipment, the solution needs to be determined based on samples;

As the equipment is continuously upgraded, the appearance dimensions and weight shall be subject to the actual product.

The shapes of very few plugs are special, with relatively more processing operations, which may lead to a reduction in efficiency. For some rods, silicone oil needs to be added during insertion, and consumables need to be ordered separately.

HBQ-371 HEAT SHRINKING MACHINE



Introduction

HBQ-371 heat shrinking machine, developed by Hacint, is a new generation of heat shrink tube machine. It is a machine that shrinks heat shrink tubes onto wire harnesses, with a crawler-type feeding system ensuring continuous operation.

Features

● Pleasurable:

The appearance is exquisite, simple, and relatively compact;
The human-machine interface is professional, aesthetically pleasing, and easy to operate;

● Safety:

When the temperature is below or above the specified range, reverse the feeding direction;
Transmission failure, stop, alarm and protection;
Stop heating after long-term standby;

● Completed:

Forced air cooling after being shrunked;
MES available;
Customization of auxiliary tooling for Long wires is available.

Specifications

Type	HBQ-371	Heating Board Temperature	650℃ (max)
Wire Diameter Range	13.5mm (max)	Power	2.1kW (max)
Power Supply	AC220V 10A	Belt Speed	3~50mm/s
Heat Shrink Tube Length	90 (default) /100mm (optional)	Overall Dimensions	L 1040 × W220 × H386mm
		Weight	50kg

Relate Product /Optional

Optional: Long wires auxiliary tooling

HBQ-372 HEAT SHRINKING MACHINE



Introduction

HBQ-372 is a machine that shrinks the heat shrink tube onto the wire harness, achieving the function of end heat shrinking. It can perform heat shrinking on different end types such as end heat shrink tube, end housings, end grounding, and end short wire. The caterpillar-type feeding ensures continuous operation.

Features

● Strong compatibility:

Different styles: fully end heat-shrinkable/end housing/end grounding/end short-wired;
Multiple adjustments: adjust the end distance, adjust the space with a short adapter cable, and adjust the pressure with a long adapter cable;

● Pleasurable:

The appearance is exquisite, simple, and relatively compact;
The human-machine interface is professional, aesthetically pleasing, and easy to operate;

● Safety:

When the temperature is below or exceeds the specified range, reverse the feeding direction;
Transmission failure, stop, alarm and protection;
Stop heating after long-time standby;
Force air cooling after heat shrinkage;

● Support for expansion:

Support MES networking;
Support the customization of long wires auxiliary tooling.

Specifications

Type	HBQ-372	Heating Board Temperature	700℃ (max)
Wire Diameter Range	0~13.5mm	Power	3.5kW (max)
Power Supply	AC220V 10A	Belt Speed	3~50mm/s
Heat Shrink Tube Length	90(default)/100mm (optional)	Overall Dimensions	L 1071 × W332 × H438mm
		Weight	74kg

Relate Product /Optional

Optional: Long wires auxiliary tooling

HBQ-373 HEAT SHRINKING MACHINE



Introduction

HBQ-373 is a machine designed to shrink heat shrinking tube onto wire harnesses, suitable for heat shrinking the ends of large wires. It is suitable for the end heat shrinking of large wires. For example, it can be used for electric vehicle wire harnesses, relatively thick battery cables, and larger grounding terminal wires. The multi-station design ensures continuous operation, and the tooling for each station can be customized to protect the wire harnesses and housings in the non-heat shrinking areas.

Features

- **Efficient:**
Different styles: housing wire/bonding wire;
Multi-station: Four stations ensure continuous operation;
- **Safety:**
Adjustable tooling, customizable, and capable of protecting the safety of non-heating areas;
- **Support for expansion:**
Support MES networking.

Specifications

Type	HBQ-373
Wire Diameter Range	0~120mm ²
Power Supply	AC380V 18.5A
Heat Shrink Tube Length	160mm (max)
Heating Zone Temperature	450℃ (max)
Power	7kW (max)
Overall Dimensions	L1071 × W332 × H438mm
Weight	240kg

Related Products / Accessories

Optional accessories: tooling can be customized

HBQ-375 HEAT SHRINKING MACHINE



Introduction

HBQ-375 is a machine designed to shrink heat shrinking tube onto wire harnesses, suitable for heat shrinking at the ends or intermediate positions of large wires. For example, it can be used for heat shrinking intermediate corrugated tube and thicker battery cables, Larger grounding terminal wire. Dual-station continuous operation, protecting non-heat-shrinkable area wire harness and housings.

Features

- **Efficient:**
Different styles: housing wire/bonding wire;
Multiple workstations: Double workstations ensure continuous operation;
- **Safety:**
Adjustable tooling, customizable, and capable of protecting the safety of non-heating areas;
- **Support for expansion:**
Support MES networking.

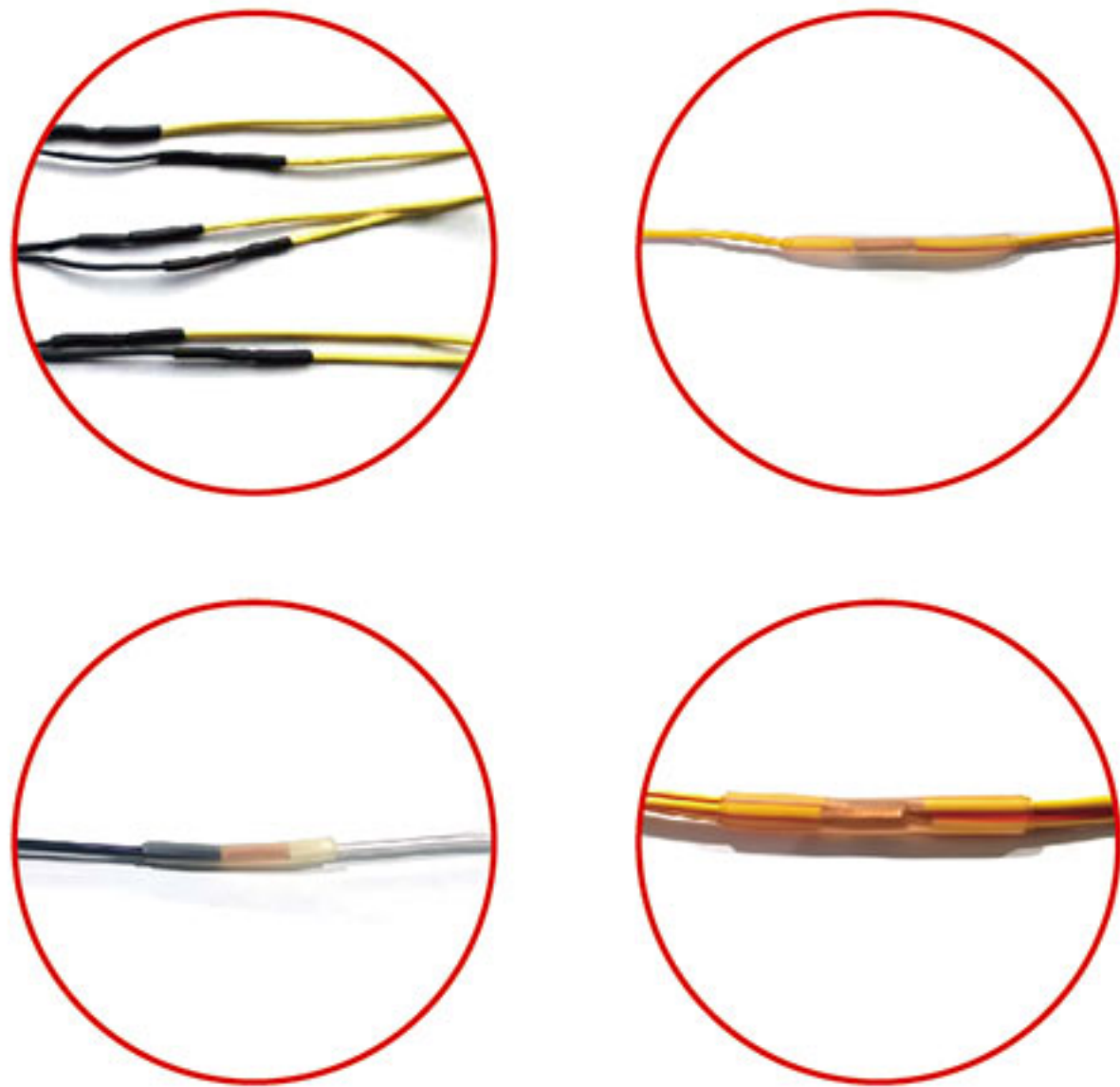
Specifications

Type	HBQ-375	Heating Board Temperature	600℃ (max)
Wire Diameter Range	0~120mm ²	Power	3kW (max)
Power Supply	AC220V 18.5A	Overall Dimensions	L1400 × W970 × H1730mm
Heat Shrink Tube Length	300mm (max)	Weight	200kg

Related Products / Accessories

Optional accessories: tooling can be customized

HBQ-K241 HEAT SHRINKING MACHINE



Introduction

HBQ-K241 wire harness heat shrinking machine is a professional customized machine that adopts an infrared heating system with high-efficiency and rapid temperature rise, as well as flexible and intelligent control. It can meet the requirements of different wire diameters and different heat shrinking temperatures.

Features

- **Simplicity:**
The body is primarily painted in a clean industrial gray, with an overall structure that is simple and elegant;
The three-color warning light strip provides intuitive prompts for operations based on actual production conditions.
- **Efficiency:**
The infrared heating system can achieve rapid temperature rise and maintain a temperature control range of $\pm 10^{\circ}$ according to the settings, ensuring uniform heat shrinkage;
The specially designed heating chamber achieves uniform temperature distribution, and is equipped with a cooling system to ensure rapid cooling after heat shrinkage;
The intelligent control system enables temperature control, adjustment, heating time setting, and real-time display of temperature curves.
- **Convenience:**
The equipment operates based on formulas, with temperature and time pre-input, enabling rapid switching between temperature formulas during the production process;
Based on different wire diameter requirements, the clamping mechanism can achieve quick changeover to meet the production needs of products with varying wire diameters;
It can achieve synchronous heat shrinkage of multiple sets of wire harnesses.

Specifications

Type	HBQ-241	Power Supply	AC220V/50Hz
Heating Zone Temperature	0~300°	Power	2100W
Wire Diameter Range	0.5~4mm²(adjustable on request)	Overall Dimensions	L700 × W300 × H580mm
		Weight	30kg

TLZ-6 ASSEMBLY LINE



Introduction

The TLZ-6 assembly line is specifically designed and manufactured for wire harness production, and is widely used in the transmission production of automotive high and low-voltage wire harnesses, motorcycle wire harnesses, and other products.

优点

It solves the problem of automatic transfer during large-scale production at the end, realizes assembly line operation, which is beneficial to improving work efficiency, reducing labor intensity, and facilitating standardized production. This product is controlled by PLC and equipped with a variable frequency speed regulation device to meet the production requirements of different wire harnesses. It can also be applied to the production of other assembly line operation products that require automatic transfer, greatly improving the efficiency.

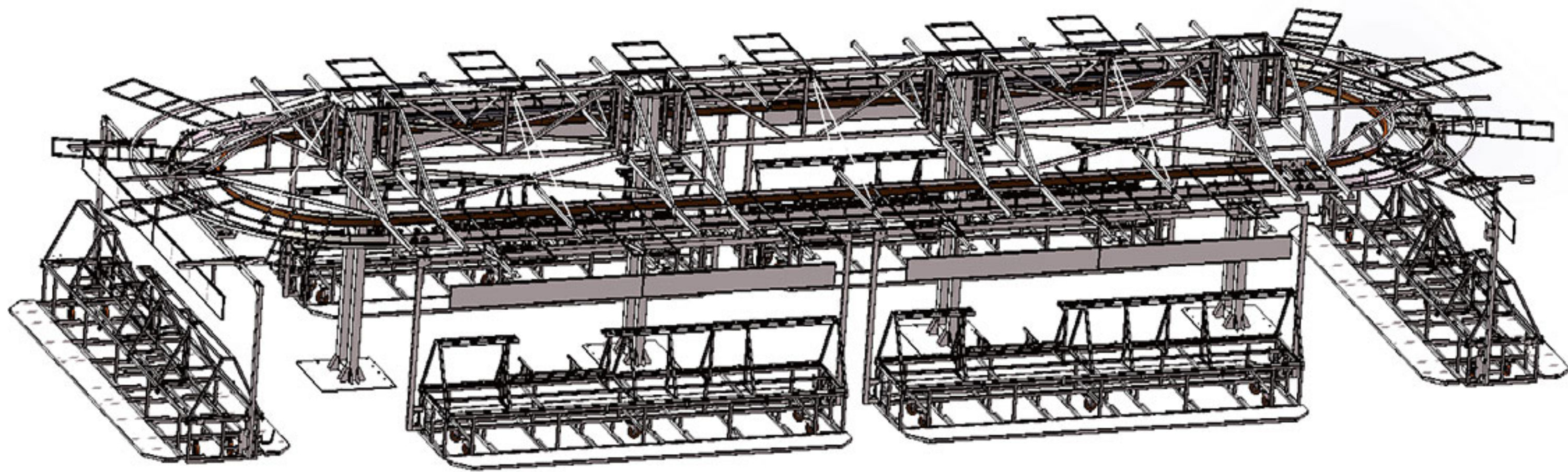
Features

- **Adjustable speed:** All speeds are adjustable. The tooling board is placed on the double-speed assembly line chain for transmission, the bottom is equipped with wear-resistant rubber sheets, ensuring the equipment runs smoothly;
- **Operation mode:** The tooling board can achieve left-right transmission, up-down transmission, and simultaneous left-right and up-down transmission;
- **Convenient operation:** Button start, variable frequency adjustment of workstations, and each workstation can independently release the tooling board;
- **Humanized lighting:** LED lighting provides soft and excellent brightness;
- **Audible and visual cues:** The assembly line has encountered a fault, causing an emergency stop at each workstation and sounding the alarm light;
- **Convenient installation:** The equipment is made of aluminum profiles, and the components are connected using screws, making it easy to transport and install;
- **Movable:** The equipment is equipped with casters, facilitating easy relocation within the workshop;
- **Quantity control:** Utilize photoelectric switches or proximity switches to transmit data, with LED screens displaying the data or using PLC touch screen displays data;
- **Independent development:** Fully independent research and development design, with effective guarantees for delivery and after-sales service.

Specifications

Type	TLZ-6
Reducer Speed	Can be customized
Overall Dimensions	Customizable
Power Supply	AC380V / 220V / 50Hz
Power	1.5kW / 2.2kW
Weight	Depending on the length of the wire
Rotation Angle	Both up and down, as well as left and right, are available

TLZ-8 ASSEMBLY LINE



Introduction

It is specifically designed for the assembly and processing of larger-scale and more complex wire harnesses. Place the wire harness workbench on both sides of the assembly line. Driven by the upper conveyor chain with variable frequency speed regulation, the trolley travels on the ground at a preset linear speed according to the process, and the whole system operates in a continuous circular manner.

Features

The transmission structure is placed above the trolley, without affecting other activities on the ground; Operators follow the trolley on the assembly line to reduce their walking during operation; Cross-shaped reinforcement beams are added at both ends of the assembly line, and tension rods are added in the middle to improve the load-bearing capacity, ensuring structural stability and safety.

Specifications

Type	TLZ-8
Table Specification	L: ≤7500mm Board width of type A:800~1000mm, Board width of Type H :≤2250mm Recommended:5000 x 880mm for Type A, 6420 x 2250mm for type H, customized according to requirement
Running Speed	Moving speed 15~50Hz 831~4154mm/min
Speed Control Way	Frequency
Vertical Angle of Table	Recommended 60° for Type A H-type reserved plane mounting tool plate, can be customized
Overall Dimensions	Customs available upon request

TLZ-4 ASSEMBLY LINE

Introduction

TLZ-4 assembly line is specifically designed and manufactured for wire harness production, and is widely used in the production of automotive wire harnesses, motorcycle wire harnesses, and other wire harness products.

特点

The solution has facilitated automatic transfer in mass production, enabling flow operation, which is conducive to improving work efficiency, reducing labor intensity, and facilitating standardized production. This product uses a frequency conversion speed regulation device, to accommodate the production requirements of various wire harnesses, it can be applied to the production of other products that require automated transfer in assembly line operations, significantly enhancing efficiency.

Features

- **Adjustable speed:** All speeds are adjustable. The ground is covered with steel plates, ensuring no damage to the ground and stable equipment operation;
- **Convenient operation:** Button start, variable frequency adjustment;
- **Humanized lighting:** LED lighting, with soft light and excellent brightness;
- **Acoustic and visual prompts:** In case of a fault in the assembly line, the emergency stop control of each workstation will be activated, and the alarm light will sound;
- **Convenient installation:** Screw connection method, easy to transport and install;
- **Movable:** The equipment is equipped with casters, facilitating position changes within the workshop;
- **Quantity control:** Data is transmitted using photoelectric switches or proximity switches, and displayed on an LED screen;
- **Independent development:** Fully independent research, development, and design, with effective guarantees for delivery and after-sales service.

Specifications

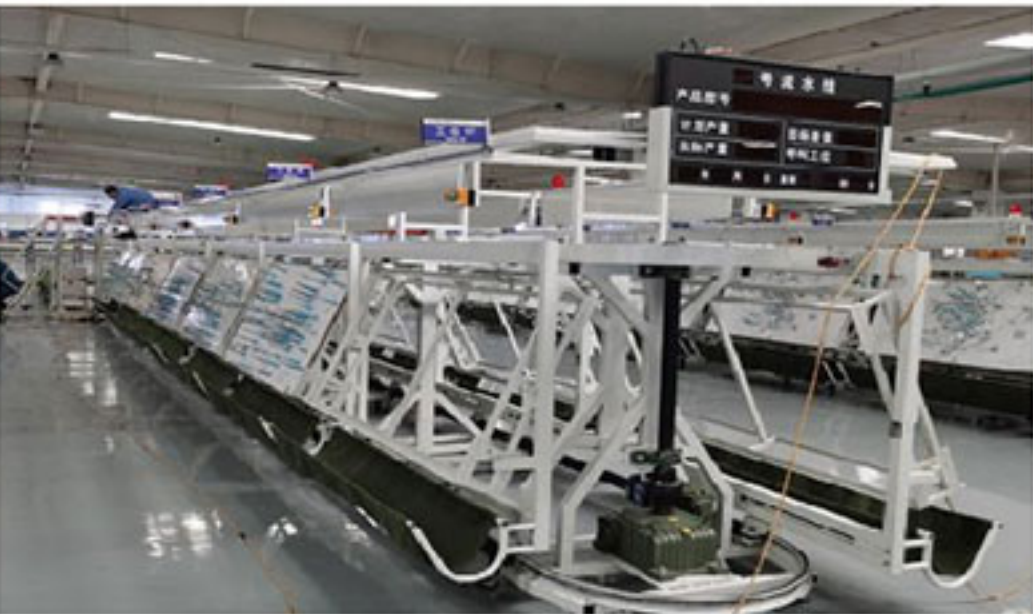
Type	TLZ-4
Reducer Speed	1: 500/ 1: 600
Power Supply	AC380V / 220V / 50Hz
Power	1.5kW / 2.2kW
Rotation Angle	it can be in both forward and reverse directions
Overall Dimensions	Customizable
Weight	according to the different lengths of the wire harness



TLZ-5 ASSEMBLY LINE

Introduction

TLZ-5 assembly line is specifically designed and manufactured for wire harness production, and it is widely applied in the production of automotive wire harnesses, motorcycle wire harnesses, and other wire harness products.



特点

It solves the problem of automatic transfer during the completion of large-scale production, enabling assembly line operation. This is conducive to improving work efficiency, reducing labor intensity, and facilitating standardized production. This product is equipped with a variable frequency speed regulation device to meet the production requirements of different wire harnesses. It can be applied to the production of other assembly line products that require automatic transfer, significantly boosting the efficiency.

Features

- **Adjustable speed:** It can be adjusted. The trolley is suspended, and the bottom is equipped with rails, so the equipment does not touch the ground, the equipment runs smoothly;
- **Convenient operation:** Button start, variable frequency adjustment;
- **Humanized lighting:** LED lighting, with soft light and excellent brightness;
- **Acoustic and visual cues:** The assembly line has encountered a fault, triggering emergency stop controls at each workstation and sounding the alarm light;
- **Easy installation:** Screw connection method, convenient for transport ation and installation;
- **Mobility:** The equipment is equipped with casters, facilitating easy relocation within the workshop;
- **Quantity control:** Utilize photoelectric switches or proximity switches to transmit data, with LED screens displaying the data;
- **Independent development:** Fully independent research and development design, with effective guarantees for delivery and after-sales service.

Specifications

Type	TLZ-5
Reducer Speed	1: 500/ 1: 600
Overall Dimensions	Customization
Power Supply	AC380V / 220V / 50Hz
Power	1.5kW / 2.2kW
Weight	according to the different lengths of the wire harness
Rotation Angle	it can be in both forward and reverse directions

TLZ-7 ASSEMBLY LINE

Introduction

Driven by the speed regulation drive device, the wire harness workbench moves in a circular motion and can achieve continuous rotation. The workbench rotates to the position of one workstation within the preset time and operates in such a cycle. It can also achieve intermittent rotation. The workbench stops after rotating a certain angle within the preset time, and then continues to rotate after the operation time is completed, and operates in such a cycle.



优点

The workbench rotates along the central main shaft, operating smoothly and with high safety;

The angle of the workbench surface is adjustable, and the operating speed is adjustable through frequency conversion;

Each workstation is equipped with an emergency stop button, a start button, lighting, material racks, and a display board for operation instructions; It covers a small area.

Specifications

Type	TLZ-7
Table Specification	L<=1600mm W<=600mm (two sides), W<=1100mm (one side) Recommended:1200 x 600mm, 1200 x 1000mm Recommended: 4 station、6 station、8 station
Running Speed	CT for each station: 20~60s adjustable
Speed Control Way	Frequency
Vertical Angle of Table	60°
Overall Dimensions	Customs available upon request

HBQ-430 SEMI-AUTOMATIC COAXIAL STRIPPING MACHINE



Introduction

HBQ-430 is a high-precision semi-automatic coaxial stripping machine. It adopts synchronous belt transmission, and is driven by ball bearings and a lead screw. With the specific positioning device designed by our company's patented technology, there is no need to re-calibrate the blade when replacing the cutting tool, making the operation simple. It has a menu-style dialogue system, which is convenient to operate. It can store 300 sets of processing data, and can set up to nine layers of stripping at most. At the same time, it has a relatively small external dimension, and weighs only 23 kg, making it more convenient to move the machine.

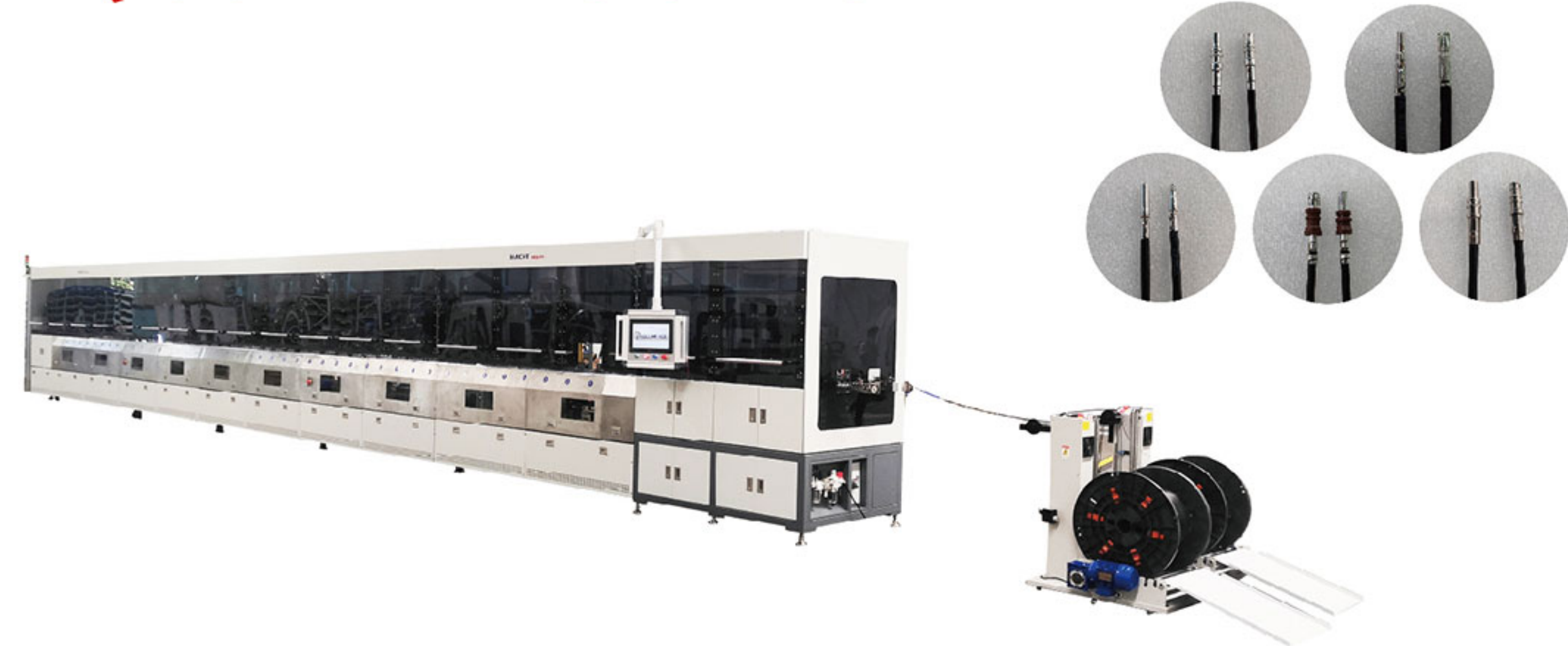
Features

- **Miniaturized design:**
The equipment is compact in size and lightweight, allowing for easy movement and placement by a single person; Diversified production to accommodate diversified processing and production of cables of different specifications;
- **User-friendly operation:**
Open production parameter setting window, multi-recipe setting and storage function, Facilitate rapid production changeover and call-up;
- **Operational safety:**
Fully protective production mode ensures operational safety; The design of multi-level password and multi-layer permission management on the interface ensures that important data is not lost or altered;
- **Multi-interface transmission:**
It can be connected to the MES system using RJ45 and RS485, and data backup can also be performed through a USB interface.

Specifications

Type	HBQ-430
Stripping Length	1~40mm
Stripping Accuracy	0.1mm
Wire Diameter Range	φ 2.0~7.8mm
Number of Stripping Layers	0.01mm
Formula Capacity	9 layers (max)
Power Supply	300 Article
Power	AC220V / 50Hz
Overall Dimensions	1500W
Weight	L440 × W130 × H300mm

HBQ-910-H FAKRA AUTOMATIC LINE



Introduction

HBQ-910-H FAKRA automatic line can complete functions such as automatic wire supply for wire harnesses, coiling and bundling, automatic feeding, manual online feeding, wire straightening, ring insertion, half-stripping of wire insulation, crimping of shielding rings, folding of shielding nets, cutting of aluminum foil, braiding and pressing, crimping of central pins, straightening of central pins, assembly of loose parts and outer conductors, assembly of chain parts and outer conductors, braiding and turning back, assembly and crimping, as well as a series of inspections.

Features

- **High integration:** The machine can handle Rosenberger's third-generation FAKRA, Rosenberger's second-generation FAKRA, Rosenberger minifakra, TE fakra and TE minifakra, enabling dual-end hybrid processing operations;
- **High intelligence:** The entire machine adopts PLC bus control, and employs both touch-screen integrated machines and mobile screens for dual operation, better meeting on-site production needs;
- **High quality:** Equipped with an automatic visual inspection device that monitors product quality in real-time, automatically alarms and isolates defective products;
- **High efficiency:** Formula database system, free switching between multiple material numbers, enabling rapid production scheduling and high automation;
- **Convenience:** The crimping machine is equipped with a Solu pressure management system, which enables real-time monitoring of the crimping process and saves detection data;
- **Safety:** Operation permission management, MES host computer networking, product data tracking;
- **High stability:** The use of branded electrical components ensures the long-term operational stability of the equipment;
- **Humanization:** Flexible equipment layout, functional modules + carrier circulation, and standardized modules;
- **Simplification:** The square steel frame features a dual-color design, which is both sturdy and elegantly simple.

Specifications

Type	HBQ-910-H	Crimping Stroke	30/40mm(Japanese style or European style is optional)
Wire Diameter Range	2.8 & 3.3mm ²		
Length Range	Wire length<1.2m, wires need to be fed manually 1.2m≤wire length < 10m, wires can be coiled, cut and fed automatically	CT	≤ 10s
		Air Supply	5~6Bar
		Noise Level	≤ 75dB
Stripping Length	0.5~30mm	Power Supply	AC380V/50Hz
Number of Stripping Layers	1~3 layers	Overall Dimensions	About L20000 × W1300 × H2250mm
Stripping Accuracy	± 0.1mm	Weight	10000kg
Crimping Force	2T		

HBQ-210C STRIPPING AND CRIMPING MACHINE

Introduction

HBQ-210C is mainly applied to the processing of double-core wires (ethernet wires) with short outer insulation stripping and small square wire diameters. The operator holds the wire and inserts it into the machine, and the machine automatically completes the shaping, cutting, stripping, and crimping of the wire. This greatly improves the production efficiency and accurately ensures the product quality.

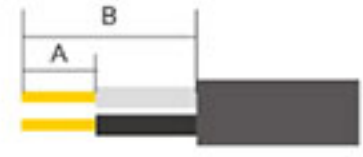
Features

- **High integration:** Integrating shaping, cutting, stripping, and crimping terminals into one;
- **High quality:** Pressure management to detect the crimping quality of terminals;
- **High precision:** Stripping length precision ± 0.1mm, cutting precision ± 0.01mm;
- **User-friendly operation:** The stripping length, depth, and cutting length can be adjusted through parameter control.



Specifications

Type	HBQ-210c
Power Supply	Power supply and power 220v 50hz
Power	1500W
Air Supply	Compression air 5~7Bar dry and oil free
Wire Diameter Range	Wire type: double core wire with insulated outerlayer (ethernet cable) cross sections: 0.13~0.35mm ² Conductor type: copper or thin wire
CT	Equipment cycle time: 4.0~6.0s
Crimping Stroke	30mm or 40mm
Crimping Force	20kN
Stripping Length	A size range: 0~4mm B size range: 8~12mm
Overall Dimensions	About L1000 × W1100 × H1700mm
Weight	440kg



★ Some extremely hard and solid wires may not be able to be processed, although they are within cross sections, we are willing to offer samples for you if any demands.

HBQ-212 ETHERNET AUTOMATIC LINE

Introduction

HBQ-212 Ethernet automatic line can automatically complete tasks such as core wire shaping, stripping, crimping, housings inserting, assembly and crimping of outer iron shells, visual system inspection, and material feeding.

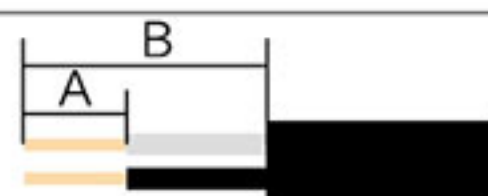
Features

- **High integration:** Core wire shaping, stripping, crimping, housing inserting, assembly and crimping of outer iron shell, visual system inspection;
- **High quality:** Visual inspection of core wire crimping quality, size, and appearance, as well as visual inspection of finished product appearance and size; Cutting length, stripping length, stripping depth, housings insertion position, and outer iron shell assembly position are controlled by servo systems;
- **High efficiency:** Two sets of circulating clamping jaws operate in parallel, enhancing production efficiency;
- **Humanization:** The length and depth of stripping can be adjusted through software control;
- **Cleanliness:** There are recycling devices for insulation and terminal scraps to keep the equipment clean.



Specifications

Type	HBQ-212
Wire Diameter Range	Applicable products dual core ethernet (If you need to adapt to other products, please contact us) 0.13~0.35mm ²
Overall Dimensions	L3650 × W1100 × H2200mm
Weight	About 1650kg
Stripping Length	A: 0.1~4.0mm B: 8~12mm



★Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-212A ETHERNET SHORT-WIRE STRIPPING AND CRIMPING MACHINE

Introduction

HBQ-212A Ethernet short-wire stripping and crimping equipment can automatically strip and crimp multi-specification dual-core Ethernet wires. It can automatically complete tasks such as wire shaping, stripping, crimping, outer ring crimping, CCD crimping automatic detection, and material feeding.

Features

- **Crimp:** Simultaneously achieve the crimp of the core wire and the outer circular ring;
- **High integration:** Core wire shaping, stripping, crimping, outer ring crimping, and CCD crimping detection;
- **High quality:** Through CCD inspection, defective products are eliminated;
- **High efficiency:** Two sets of circulating clamping jaws operate in parallel, enhancing production efficiency;
- **Humanization:** The stripping length and crimping size are adjusted through software control; when changing products, simply retrieve the corresponding product formula;
- **High precision:** The adoption of a high-precision positioning mechanism ensures the consistency of length;
- **Intelligence:** Equipped with an automatic visual inspection device, it can monitor product quality in real-time, automatically alerting and isolating defective products;



The friendly PC interface and more intuitive graphics have improved visibility and operability.

Specifications

Type	HBQ-212A
Wire Diameter Range	Applicable products dual core ethernet (If you need to adapt to other products, please contact us)
Stripping Length	A:0.1~4.0mm B:8~12mm
Overall Dimensions	L2200 × W100 × H2690mm
Weight	About 1650kg



★Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-912A HMTD ETHERNET AUTOMATIC LINE



Introduction

HBQ-912A HMTD is capable of performing stripping, wire sequence adjustment, crimping of shielding rings, turning over net, aluminum foil removal, twin-core wire shaping, double-stripping of twin-core wires, crimping of core wires to terminals, automatic detection of CCD crimping, shaping of double-core wires, spacing detection and shaping of double-core wires and a series of other detection functions.

Features

- The equipment is capable of processing Rosenberger H-MTD;
- The entire machine adopts PLC bus control, and utilizes both a touch-screen all-in-one machine and a mobile screen for dual operation, better meeting on-site production needs;
- Formula database system, allowing for free switching between multiple material numbers, enabling rapid production scheduling and high automation;
- The crimping machine is equipped with a pressure management system, enabling real-time monitoring of the crimping process and the preservation of detection data;
- Multi-process equipment is equipped with visual inspection devices to ensure product quality;
- Operation permission management, product data storage;
- Utilizing branded electrical components ensures the long-term operational stability of the equipment;
- Flexible equipment layout, featuring functional modules combined with carrier circulation, with standardization of modules;
- The square steel frame features a dual-color design, which is both sturdy and elegantly simple.

Specifications

Type	HBQ-912A HMTD	CT	6~7s
Wire Diameter Range	0.13mm ² & 0.14mm ²	Air Supply	5~6Bar
Outer Stripping Length	5~10mm	Noise Level	≤75dB
Inner Stripping Length	0~4.0mm	Power Supply	AC380V/50Hz
Crimping Force	2T	Overall Dimensions	About L14000 × W1300 × H2250mm
Crimping Stroke	40mm		

★ Some extremely hard and solid wires may not be able to be processed. although they are within cross sections. we are willing to offer samples for you if any demands.

HBQ-K701 ULTRASONIC WIRE HARNESS WELDING MACHINE

Introduction

HBQ-K701 ultrasonic wire harness welding machine adopts ultrasonic wave generating components imported directly from Germany. Coupled with an exquisite mechanism and a flexible and intelligent control system, it realizes ultrasonic welding between wire harnesses. It is an ultrasonic welding machine that has a wide applicable wire diameter range and stable welding effects.

Features

- **Simplicity:**
The body is primarily in a clean industrial gray tone, with a simple and elegant overall structure;
The friendly human-computer interface and intuitive graphical interface enhance visibility and operability;
- **Efficiency:**
The ultrasonic system is imported with original packaging, featuring stable and powerful energy output, as well as good sustainability;
The system is equipped with built-in welding parameters for commonly used wire diameters, significantly reducing equipment debugging time;
The device is equipped with networking capabilities, allowing it to connect to a scanning gun and the MES system;
Supports wire diameter recognition to prevent operators from missing or misplacing wire harnesses, and supports both in-line welding and sequential welding;
The system is equipped with built-in welding parameters for commonly used wire diameters, significantly reducing equipment debugging time;
- **Convenience:**
The computer monitors the entire welding process in real time, and alarms will be triggered to remind if the parameters exceed the set values.

Specifications

Type	HBQ-K701 (standard version)
C T	2~4s (welding)
Wire Diameter Range	0.7 ~ 20mm ² (can be customized up to 50mm ²)
Air Supply	0.6~0.7MPa
Ambient Temperature	-0.5 ~ 50℃
Power Supply	AC 380V 50Hz
Power	2000 ~ 6000W (range)
Welding Length	13mm
Overall Dimensions	L1220 × W830 × H1370mm
Weight	300kg

- ★ Notes :
- 1.Please offer sample wires;
 - 2.The above typical wire processing ranges, beyond.



HBQ-K711 ULTRASONIC WIRE HARNESS WELDING MACHINE

Introduction

HBQ-K711 ultrasonic wire harness welding machine adopts a dual-transducer design, which can meet the welding needs of large square copper/aluminum wires and terminals. Equipped with a sophisticated mechanism and a flexible and intelligent control system, it achieves ultrasonic welding between wire harnesses and terminals. It is an ultrasonic welding equipment with a wide range of wire diameters and stable welding effects.

Features

- **Simplicity:**
The body is primarily in a clean industrial gray tone, with a simple and elegant overall structure;
The integrated three-color warning light provides intuitive prompts for operations based on actual production conditions;
- **Efficiency:**
The dual-transducer design is adopted to achieve high-power welding while ensuring gentle amplitude output;
Use small amplitude welding to avoid vibration breakage of terminal springs and cracks in irregular terminal hole positions;
- **Convenience:**
Monitor and provide early warnings for the service life of vulnerable parts to avoid the production of defective products caused by part wear;
The computer monitors the entire welding process in real-time, and alarms will be triggered to remind if the parameters exceed the set values;
The device is equipped with networking capabilities, allowing it to connect to a scanning gun and the MES system;
The diversification of industrial design allows for the application of various irregular-shaped terminals.

Specifications

Type	HBQ-K711 (standard version)
Welding Head Stroke	50mm
Air Supply	04~0.7MPa
CT	1.2~2.3s (welding)
Power Supply	AC 380V 50Hz
Power	13000W
Wire Diameter Range	wire end welding copper wire 50 – 120mm ² aluminum wire 50 – 150mm ² wire to wire welding copper wire 50 – 120mm ² aluminum wire 50 – 150mm ²
Overall Dimensions	L1500 × W1010 × H2000mm
Weight	900kg

- ★ Notes :
- 1.Please offer sample wires;
 - 2.The above typical wire processing ranges, beyond.



HBQ-K712E ULTRASONIC WIRE HARNESS WELDING MACHINE

Introduction

HBQ-K712E ultrasonic welding machine adopts a single transducer design, featuring a 270-degree open operating space for greater flexibility. Coupled with an ingenious mechanism and a flexible and intelligent control system, it achieves ultrasonic welding between wire harnesses and terminals. It is an ultrasonic welding equipment with a wide range of wire diameters and stable welding effects.

Features

- **Simplicity:**
The body is primarily painted in a clean industrial grey, with an overall simple and elegant structure;
The integrated three-color warning light provides intuitive prompts for operations based on actual production conditions;
- **Efficiency:**
Adopting a minimalist design, we aim to reduce operational complexity and enhance the production efficiency of the equipment;
The precision-machined multi-face welding head is made of high-quality steel, ensuring a long service life and easy installation
Simple and with high welding accuracy;
- **Convenience:**
Monitor and provide early warnings for the service life of vulnerable parts to avoid the production of defective products caused by component wear;
The friendly human-computer interface and intuitive graphical interface enhance visibility and operability;
The device is equipped with networking capabilities, allowing it to connect to a scanning gun and the MES system;
The diversification of industrial design allows for the application of various irregular-shaped terminals.

Specifications

Type	HBQ-K712E (standard version)
Welding Head Stroke	50mm
Air Supply	0.4~0.7MPa
CT	0.8~1.5s (welding)
Power Supply	AC 380V 50Hz
Power	6000W (standard version)
Wire Diameter Range	wire end welding copper wire 10 ~ 50mm ² aluminum wire 10 ~ 70mm ² wire to wire welding copper wire 35 ~ 50mm ² aluminum wire 35 ~ 70mm ²
Overall Dimensions	L1210 × W1050 × H2000mm
Weight	600kg

- ★ Notes :
- 1.Please offer sample wires;
 - 2.The above typical wire processing ranges, beyond.



HBQ-K715F ULTRASONIC WIRE HARNESS WELDING MACHINE

Introduction

HBQ-K715F ultrasonic wire harness welding machine utilizes original German-imported ultrasonic wave-generating components, coupled with a sophisticated mechanism and a flexible and intelligent control system, to achieve ultrasonic welding between wire harnesses and terminals. It is an ultrasonic welding equipment with a wide range of wire diameters and stable welding effects.

Features

- **Simplicity:**
The body is primarily painted in a clean industrial grey, with an overall structure that is simple and elegant;
The integrated three-color warning light provides intuitive prompts for operations based on actual production conditions;
- **Efficiency:**
The wedge-bar welding head is less prone to deformation under vertical pressure;
Use small amplitude welding to avoid vibration breakage of terminal springs and cracks in irregular terminal holes;
- **Convenience:**
The friendly human-computer interface and intuitive graphical interface enhance visibility and operability;
Equipped with password protection and parameter traceability;
The device is equipped with networking capabilities and can connect to a barcode scanner and the MES system;
The diversification of industrial design allows for the application of various irregular-shaped terminals.

Specifications

Type	HBQ-K715F (standard version)
Welding Head Stroke	50mm
Wire Diameter Range	copper wire 35 ~ 70mm² aluminum wire35 ~ 95mm²
Air Supply	0.4~0.7MPa
CT	1.2S~1.7s (welding)
Power Supply	AC 380V 50Hz
Power	8000W (standard version)
Ambient Temperature	-5~40°
Overall Dimensions	L1210 × W1050 × H2000mm
Weight	750kg

- ★ Notes :
- 1.Please offer sample wires;
 - 2.The above typical wire processing ranges, beyond.



HBQ-K726 ULTRASONIC WELDING AND HEAT-SHRINKING MACHINE

Introduction

HBQ-K726 ultrasonic welding and heat shrinking machine is a specialized customized equipment that utilizes ultrasonic welding for wire harness feeding, a mechanical system for handling the welding wire harness, a visual system for inspecting the welding appearance, automatic centering of the heat shrinking tube, and automatic heat shrinking of the heat shrink tube. It can accommodate different wire diameters and varying heat shrinking temperature requirements.

Features

- **Simplicity:**
The body is primarily painted in a clean industrial gray, with an overall structure that is simple and elegant;
The integrated three-color warning light provides intuitive prompts for operations based on actual production conditions;
- **Efficiency:**
The ceramic heating system can achieve rapid temperature rise and maintain a temperature control range of $\pm 10^{\circ}$ according to the settings, ensuring uniform heat shrinkage;
The specially designed heating chamber achieves uniform temperature distribution, and is equipped with a cooling system to ensure rapid cooling after heat shrinkage;
The intelligent control system enables temperature control, adjustment, heating time setting, and real-time display of temperature curves;
- **Convenience:**
The equipment is operated based on recipes, with temperature and time pre-input, enabling rapid switching between temperature recipes during the production process.

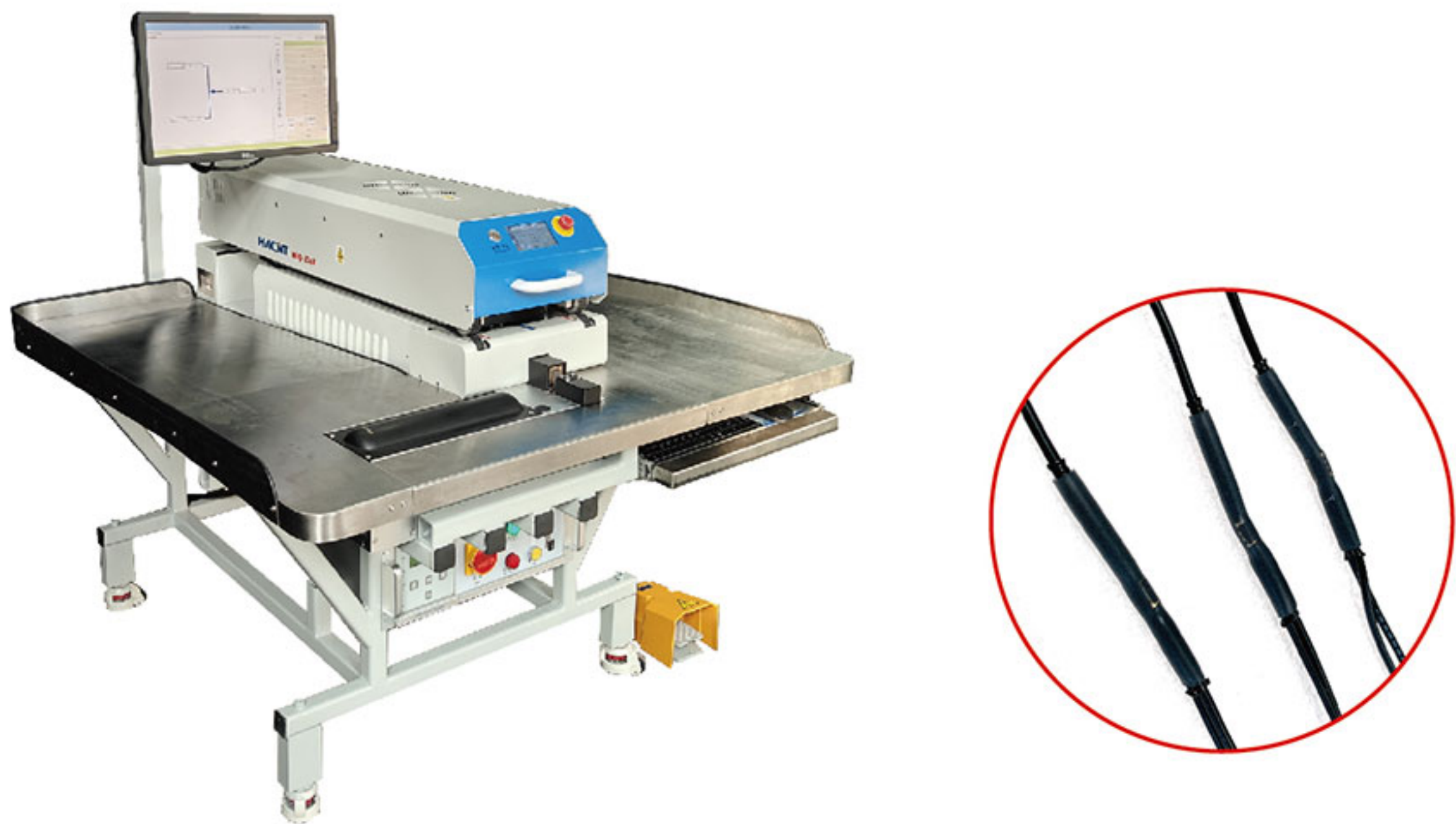
Specifications

Type	HBQ-K726
Heating Board Temperature	0~650℃
Wave Frequency	20kHz
Wire Diameter Range	0.35 ~ 20mm²
CT	8s (welding)
Power Supply	AC380V/50Hz
Power	2100W maximum (excluding welding power)
Air Supply	0.6 ~ 0.7MPa
Overall Dimensions	L1600 × W1600 × H1800mm
Weight	865kg

- ★ Notes :
- Due to different types of connectors and terminals, please be sure to provide samples.



HBQ-374A WELDING AND HEAT SHRINKING MACHINE



Introduction

HBQ-374A welding and heat shrinking machine is a crawler-type heat shrinking machine that can work in conjunction with an ultrasonic welding machine. It enables automatic welding/heat shrinking tube centering/heat shrinking on the same platform, and achieves efficient operations from welding to heat shrinking when paired with a welding machine.

Features

- **Powerful:**
Integrating welding and alignment and heat shrinking;
High efficiency, capable of continuous operation;
Optional accessory: long wire auxiliary tooling;
- **Pleasant:**
The appearance is exquisite and simple;
The human-machine interface is professional, aesthetically pleasing, and easy to operate;
- **Support for expansion:**
Support MES networking;
Support the customization of long wire auxiliary tooling.

Specifications

Type	HBQ-374A	Power	2.1kW (max, excluding welding machine)
Wire Diameter Range	0~10mm (customizable)	Belt Speed	3~50mm/s
Power Supply	AC220V 10A	Overall Dimensions	L1450 × W550 × H710mm
Heat Shrink Tube Length	60mm (max, customizable)	Weight	110kg
Heating Board Temperature	700°C (max)		

Relate Product / Optional

Optional: Long line auxiliary tooling

HBQ-G102 NUT TIGHTENING MACHINE FOR PV WIRE HARNESS



Introduction

HBQ-G102 is a new generation of semi-automatic photovoltaic and energy storage connector wire harness nut tightening equipment. The equipment is mainly composed of a servo motor, encoder, PLC, photoelectric sensor, and air cylinder. The equipment features error and mistake prevention functions. When the wrong product is placed, the equipment will not respond and start, effectively preventing defective products from entering the next process. It has high tightening accuracy, simple operation, and stable performance, effectively saving manpower.

Features

- **Convenient operation:**
After turning on the machine, simply put in the material and the connector will be automatically tightened;
- **Multi-mode startup:**
There are three modes: button control, foot control, and sensor control. You can choose according to different needs, Effectively improve efficiency;
- **Implement targeted error prevention measures:**
Male and female connectors are distinct, and only when placed into the designated connector can they function;
Terminal error prevention function, When there is a problem with the connector terminal, it will not operate after being placed in the machine, which effectively prevent defective products from entering the downstream processes.

Specifications

Type	HBQ-G102
Tightening Range	0~5mm (core components can be changed according to actual product requirements)
Tightening Precision	± 0.3mm
Capacity Efficiency	1.5~2.5s/pcs (varies according to the tightening length)
Power	400W
Power Supply	AC220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	L500 × W400 × H260mm
Weight	50kg

★ Notes :
Due to different types of connectors and terminals, please be sure to provide samples.

HBQ-G203 PV HARNESS MACHINE

Introduction

HBQ-G203 integrated photovoltaic wire cutting, riveting and screwing machine is an automatic processing machine for photovoltaic wire cutting, riveting and screwing. Its functions include cutting (stripping), terminal riveting, connector assembly, and connector nut tightening, etc. The whole machine adopts a one-out-of-two modular design in terms of layout, which is highly efficient and convenient for debugging. This machine is mainly used for the assembly of connectors at the photovoltaic panel end, and can realize real-time monitoring of important processes, such as wire alignment detection, pressure management detection, soldering visual inspection, detection of wires not being inserted into the connectors in place, visual inspection of nut clearances, etc., to ensure the reliable quality of the final products for customers and reduce the outflow of defective products.

HBQ-G203 PV harness machine includes a set of the main machine, a set of the wire pay-off rack, and a set of the wire storage rack. The main machine can process wires with a length of 180~2000, and is applicable to general photovoltaic cables with a wire diameter of $\Phi 5.7\sim\Phi 6.3$ ($1\times 4\text{mm}^2$). The wire pay-off rack can bear a maximum of 600kg of incoming coiled wire (drum). The wire storage rack is equipped with a tensioning structure, and the tension can be adjusted by adding or reducing counterweights.

Features

- **Efficient and stable:** The design of single-station in the front and double-station in the back enhances the production capacity by more than 30% compared to traditional single-station equipment;
- **Functional integration:** Integrating functions such as cable, terminal, and connector assembly, as well as welding, pressure monitoring, and CCD detection;
- **Easy operation:** Simply set the wire length through the touch screen main interface to achieve product production;
- **Quality controllable:** Implementing one inspection for each process, with secondary positioning or re-inspection after each processing step to ensure precision and prevent defective products from being released;
- **High utilization rate:** The space utilization rate is high, and the efficiency of each functional module is fully utilized and balanced, reducing waiting time.

Specifications

Type	HBQ-G203
Tightening Range	0~5mm
Tightening Precision	$\pm 0.3\text{mm}$
Stripping Length	6.5mm (fixed-spacing stripping)
Crimping Force	4T Crimping Machine
Length Range	180~2000mm
Length Accuracy	$L\leq 500\text{mm}:$ $\pm 1\text{mm}$; $L> 500\text{mm}:$ $(1\text{mm}+0.2\%L)$
Capacity Efficiency	$L\leq 1200\text{mm}:$ 2.6s/pcs; $L> 1200\text{mm}:(2+L/2000)\text{s/pcs}$
Power Supply	380V/50Hz
Power	8kW
Air Supply	0.5~0.7MPa
Overall Dimensions	L7000×W2000×H2250mm (wire storage shelf)
Weight	2000kg



HBQ-G203C PV HARNESS MACHINE



Introduction

HBQ-G203C is an automatic PV Harness Machine. Its functions include cutting and stripping, terminal riveting, solder paste dispensing, welding, welding inspection, connector nut tightening, and visual inspection of nut clearance. The overall layout adopts a modular design, featuring high efficiency and convenient debugging. All important production processes of this equipment are inspected, including wire alignment inspection, pressure management inspection, welding inspection, wire insertion into connectors not in place inspection, and visual inspection of nut clearance, ensuring reliable quality of customer finished products and reducing the outflow of defective products.

HBQ-G203C complete machine includes a set of cutting, riveting, and twisting main unit, a set of wire feeder, a set of wire storage rack, and a set of vibration disc. The main unit can process wires with lengths ranging from 180 to 2000mm and can handle universal wire diameters from $\phi 5.7$ to $\phi 6.3$ ($1\times 4\text{mm}^2$) for photovoltaic cables. The wire feeder can support a maximum load of 600kg of incoming wire (roller). The wire storage rack is equipped with a tensioning structure, and the tension can be adjusted by adding or removing weight blocks.

Features

- **High integration:**
It integrates wire cutting, stripping, crimping, solder paste dispensing, welding, welding inspection, connector nut tightening, and visual inspection of nut clearances.
- **High quality:**
Pressure management detects the crimping quality of terminals;
- **High precision:**
Wire feeding accuracy: $L<500\text{mm}:$ $\pm 1\text{mm}$; $L>500\text{mm}:$ $\pm (1+0.2\%*L)$;
- **User-friendly operation:**
The length of the delivered wire and the stripping length can be adjusted through parameter settings, allowing products with different wire lengths to be produced Input the corresponding length on the touch screen and initialize for switching

Specifications

Type	HBQ-G203C
Tightening Range	0~5mm
Tightening Precision	$\pm 0.3\text{mm}$
Stripping Length	0~10mm adjustable
Length Range	180~2000mm
Length Accuracy	$L\leq 500\text{mm}:$ $\pm 1\text{mm}$; $L> 500\text{mm}:$ $\pm (1\text{mm}+0.2\%*L)$
Crimping Force	4T Crimping Machine
Capacity Efficiency	$L\leq 1500\text{mm}:$ 3.5s/pcs $L> 1500\text{mm}:$ $(2.75+L/2000)$ s/pcs
Power Supply	380V/50Hz
Power	6kW
Air Supply	0.5~0.7Mpa
Overall Dimensions	L7000×W2000×H2250mm (wire storage shelf)
Weight	1900kg

HBQ-G206 PV WIRE HARNESS AUTOMATIC MACHINE



Introduction

HBQ-G206 is an automatic photovoltaic cutting, riveting, twisting, and cable tie processing equipment. Its functions include cutting and stripping, riveting, connector nut tightening, twisting, and cable tie applying and so on. The overall layout adopts a modular design, ensuring high efficiency and convenient debugging. The important production processes of this equipment include inspection: it has functions such as wire alignment inspection, cable stripping inspection, pressure management inspection, wire insertion into connector misalignment inspection, nut gap visual inspection, cable winding, automatic cable tie tightening, cable tie tail cutting, and feeding under conveyor belt, ensuring reliable product quality for customers and preventing defective products from being released.

HBQ-G206 PV wire harness automatic machine includes a set of the cutting, riveting and screwing main machine, a set of the wire pay-off rack, a set of the wire storage rack, and a set of the wire winding and cable tie machine. The main machine can process wires with a length ranging from 200 to 1800mm, and is suitable for general photovoltaic cables with a wire diameter of $\phi 5.7$ to $\phi 6.3$ ($1 \times 4\text{mm}^2$). The wire pay-off rack can bear a maximum of 600kg of incoming coiled wire (drum).

Features

- **High integration:** Integrates wire cutting, stripping, crimping, tightening of connector nuts, wire winding, cable tie application, and removal of cable tie remnants into one process;
- **High quality:** Pressure management to detect the crimping quality of terminals;
- **High precision:** Wire feeding accuracy $L < 500\text{mm} \pm 1\text{mm}$; $L > 500\text{mm} (1\text{mm} + 0.2\%L)$
The precision of the winding diameter is $\pm 10\text{mm}$, and the tail material of the cable tie is cut off by 1mm;
- **User-friendly operation:** The length of the wire fed and the stripping length can be adjusted through parameter settings. Product replacement can be achieved through one-click switching on the touch screen and running the corresponding program. Different formulas can be switched with one click for products of different lengths and winding requirements.

Specifications

Type	HBQ-G206	Diameter of Loop	90~200mm ($\pm 10\text{mm}$)
Tightening Range	0~5mm	Power Supply	380V/50Hz
Tightening Precision	$\pm 0.3\text{mm}$	Power	13kW
Length Accuracy	$L \leq 500\text{mm}$: $\pm 1\text{mm}$; $L > 500\text{mm}$: $(1\text{mm} + 0.2\%L)$	Air Supply	0.5~0.7Mpa
Length Range	180~1800mm ((For lengths below 700, there is no coiling, the maximum wire length varies according to the customer's requirements))	Capacity Efficiency	8s/pcs
Crimping Force	4T crimping machine	Overall Dimensions	L5600 \times W1400 \times H2200mm (Excluding wire feeding and storage rack)
Stripping Length	0~15mm adjustable	Weight	2800kg (Excluding wire feeding and storage rack)

HBQ-G207 CUTTING CRIMPING TIGHTENING MACHINE
FO EV WIRE HARNESS



Introduction

HBQ-G207 is an automatic cutting, riveting and screwing processing machine for photovoltaic wires. It can process both ends of photovoltaic connectors, and its functions include cutting (stripping), double - ended terminal riveting, connector assembly at both ends, and nut tightening at both ends. The overall layout of the machine adopts a modular design, realizing the short-wire turning-around and long-wire "U-shaped" double-processing modes, which features high efficiency and convenient debugging. This equipment is equipped with wire alignment detection, pressure management detection, solder visual inspection, wire-inserted-into-connector-in-place detection, and nut clearance visual inspection, ensuring reliable quality of customers' finished products and preventing defective products from flowing out.

Features

- The input line length machine automatically identifies and judges whether the line is long or short, and runs the corresponding program;
- Pressure monitoring ensures stable crimping quality of products;
- Realize the assembly and processing of connectors on both ends of photovoltaic cables to be completed on the same machine;
- The transfer of products at each workstation is controlled by a servo system, which facilitates debugging and provides higher equipment flexibility and efficiency;
- Divide the product into two sections, process one end first and then the other, effectively improving the product pass rate.

Specifications

Type	HBQ-G207
Tightening Range	0~5mm
Tightening Precision	$\pm 0.3\text{mm}$
Stripping Length	0~10mm adjustable
Capacity Efficiency	$L \leq 1500\text{mm}$ 3.5s/pcs; $L > 1500\text{mm}$ $(2.75 + L/2000)\text{s/pcs}$
Length Range	180~2000mm
Length Accuracy	$L < 500\text{mm}$: $\pm 1\text{mm}$; $L > 500\text{mm}$: $\pm (1\text{mm} + 0.2\% * L)$
Stripping Length	Fixed peeling spacing, according to the actual peeling length to replace the corresponding thickness of the pad
Crimping Force	4T Terminal Machine
Power Supply	380V/50Hz
Power	9.5kW
Air Supply	0.5~0.7Mpa
Overall Dimensions	L10000 \times W2000 \times H2250mm (wire storage shelf)
Weight	3000kg

HBQ-G205 PV CONNECTOR AUTOMATIC ASSEMBLY MACHINE



Introduction

HBQ-G205 is an automatic photovoltaic connector assembly machine, featuring a one-out-one modular design for high efficiency and convenient debugging. This machine is primarily used for assembling photovoltaic panel connectors. Each assembly process is inspected, including O-ring assembly in place detection, sealing inner plug skew detection, plastic nut tightening torque detection, plastic nut tightening gap detection, bayonet and corner breakage/damage/missing detection, and 360-degree surface scratch/indentation/deformation detection of finished products, ensuring reliable quality of customer finished products and preventing defective products from being released.

HBQ-G205 complete machine includes: a main unit, an automatic parts feeding system, a CCD visual inspection system, and a laser marking system (optional), which can be applied to the automatic assembly of all similar types of photovoltaic connectors.

Features

- It is efficient and stable, with a high operation rate;
- Implement closed-loop inspection for all processes to prevent defective products from being released;
- Its layout is compatible with multiple product types, allowing for type change by simply replacing the product fixture;
- The operation interface is simple and easy to operate and maintain;
- Product production data classification statistics, with the ability to query up to 30 days of production capacity and 7 days of detailed data classification.

Specifications

Type	HBQ-G205
Capacity Efficiency	2.2s/pcs
Product Assembly Precision	± 0.5mm
CCD Detection Accuracy	± 0.02mm
Power Supply	220V/50Hz
Power	3.5kW
Air Supply	0.5~0.7MPa
Overall Dimensions	L2750 × W1500 × H2000mm
Weight	1200kg

HBQ-360 FOUR-WIRE TWISTING MACHINE



Introduction

HBQ-360 four-wire twisting machine is primarily used in the field of wire harness processing, capable of twisting wire harnesses. It is specially designed to enhance customers' efficiency in producing twisting wires. The machine can handle both unprocessed and terminal crimped wire harnesses. Controlled by a servo system, it operates at high speed and precision, with four stations capable of working simultaneously, thereby improving work efficiency.

Features

- **Efficiency:**
The four workstations can operate simultaneously, enhancing work efficiency;
The automatic sensing thread clamping eliminates the need for manual operation of buttons;
- **Intelligence:**
Automatic adjustment of tension for different sets;
Automatic adjustment of tension for different wire diameters;
- **Accuracy:**
Four sets of wire harnesses are independently and actively straightened, eliminating clamping errors;
Ensure a constant torque during the stranding process to achieve stable pitch.

Specifications

Type	HBQ-360
Power Supply	AC220V
Air Supply	0.4~0.6 Mpa
Pitch Accuracy	± 10%
Wire Diameter Range	0.13~4mm ²
Twisting Length	150~2300mm (customizable)
Twisting Speed	3000r/min (max)
Twisting Number	2/3 pcs
Overall Dimensions	L3300 × W650 × H1400mm
Weight	150kg

HBQ-362 FOUR-WIRE TWISTING MACHINE



Introduction

HBQ-362 four-wire twisting machine is primarily utilized in the field of wire harness processing. After the twisting process, it can perform end point wrapping, serving as an anti-loosening measure. It features a modular structure design, offering considerable scalability. An optional automatic wire feeding function can be equipped to enhance efficiency while reducing the labor intensity for operators during long wire twisting.

Features

- **Efficiency:**
It can rotate forward and backward, improving work efficiency;
Automatically apply adhesive tape after twisting;
The automatic sensing thread clamping eliminates the need for manual operation of buttons;
- **Intelligence:**
Automatic adjustment of tension for different sets;
Automatic adjustment of tension for different wire diameters;
Optional automatic wire feeding function;
- **Accuracy:**
Four sets of wire harnesses are independently and automatically straightened, eliminating clamping errors;
Ensure a constant torque during the stranding process to achieve stable pitch;
The position of the tape's point wrapping is stable and reliable.

Specifications

Type	HBQ-362	Twisting Length	300~2300mm (customizable)
Power Supply	AC220V	Twisting Speed	4000r/min (max)
Air Supply	0.4~0.6 MPa	Twisting Number	2/3 pcs
Pitch Accuracy	± 10%	Tape Specification	Width: 9mm, Outer diameter: 80mm, Inner diameter: 38mm (customizable)
Tape Material	PVC		
Tape Length	30 ± 3mm	Opening Length	30~100mm
	(non-adjustable)	Overall Dimensions	L3300 × W1080 × H1400mm
Wire Diameter Range	0.13~1mm²	Weight	322kg

HBQ-340 TAPE BUNDLING MACHINE

Introduction

HBQ-340 tape bundling machine is primarily used in the field of wire harness processing, capable of performing point wrapping, marking, and fixing on wire harnesses. This product can efficiently bundle the points at the ends of wire harnesses at designated locations.

Features

- **Pleasant:**
The appearance is exquisite and simple, compact and beautiful;
The human-machine interface is professional and easy to operate;
- **Efficiency:**
The operation is simple and easy to master, with high efficiency and capability for continuous operation;
- **Flexible and customizable:**
The length of the tape and the number of bundling circles can be set;
The minimum distance between the winding point and the end is short, and customization is supported.



Specifications

Type	HBQ-340/340A
Wire Diameter Range	1.5~6mm
Number of Wrapping Turns	adjustable range
End Distance	≥ 25mm (customizable)
Air Supply	0.5~0.6Mpa
Tape Material	PVC, cloth base
Tape Inner Diameter	33mm/38mm/ (customizable)
Tape Length	Adjustable (25~50mm)
Tape Width	9~25mm (340A: 9~50mm)
Winding Speed	Adjustable
Power Supply	AC220V/50Hz
Power	500W
Tape Outer Diameter	90mm (max)
Binding Efficiency	1.6s
Overall Dimensions	L438 × W258 × H385mm
Weight	22kg

HBQ-367 TAPE BUNDLING MACHINE

Introduction

HBQ-367 tape bundling machine is primarily used for taping, marking, and securing wire harnesses at specific points. This product can be equipped with a preheated tape module, which enhances bundling efficiency in cold environments or when using thicker tapes.

Features

● Powerful functionality:

After manually placing the wire harness, it can automatically clamp, tie up, and drop the wire, reducing work intensityImprove efficiency at the same time;

Preheatable tape, capable of adapting to different ambient temperatures and varying tape properties.

● Upgrade:

Reduce the travel distance of the pulling wire movement to avoid damaging the wire harness and improve efficiency;

Exquisite and minimalist appearance, compact and lightweight; user-friendly interface, large screen for easy operation;

● Support for expansion:

Support MES networking.

Specifications

Type	HBQ-367
Bundling Diameter	1.5~12mm
Number of Wrapping Turns	Adjustable
Tape Outer Diameter	170mm (max)
Power	1.5kW (max)
Tape Length	Adjustable (30~200mm)
Tape Width	19~50mm
Capacity Efficiency	1.8s
Tape Inner Diameter	38/76mm (customizable)
Power Supply	AC220V/50Hz
Overall Dimensions	L420 × W553 × H278mm
Weight	41kg



HBQ-321 CABLE TIE GUN

Introduction

HBQ-321 cable tie gun is a manual tool capable of quickly tightening and cutting cable ties.

Features

● Wide tension range: 8-level quick adjustment settings, supporting full coverage of tension adjustment from 35 to 325N,

adaptable to different process requirements;

● Tail length: By replacing with different types of gun heads, it is possible to achieve a tail length ranging from 0 to 5mm;

● Gear adjustment: 8 adjustable gears, with a minimum adjustment down to 1/4 gear, and featuring a locking function;

● Comfortable to the touch: Ergonomic and elegant curves, easy to grip;

● Long lifespan: The blade hardness reaches 58HRC, featuring high hardness, good toughness, and a long lifespan;

● Support for hanging: A hook is provided at the bottom of the handle for easy hanging.

Specifications

Type	HBQ-321
Gear Level	8 step
Applicable Range of Tie	2.8~12.5mm
Overall Dimensions	L194 × W36 × H141mm
Weight	480g

Relate Product / Optional

Option: gun head/blade replaceable



HBQ-G401B TORQUE WORKBENCH (V3.0)



Introduction

HBQ-G401B is a semi-automatic screw and inspection machine (V3.0). It is mainly used for tightening nuts of automotive fuse boxes or charging guns of EV. The torque values of nut tightening can be uploaded to the MES system in real-time for traceability. The machine has functions such as error-prevention for tightening multiple screws, error-prevention for the screw-tightening sequence, custom-setting of torque for tightening multiple screws, custom-setting of visual recipes, torque spot-check upon startup, product reading by scanning codes, high/low-torque alarm for electric screwdriver tightening, intelligent rework (which can be based on the binding of fuses and nuts), query of production logs. For the core part, the intelligent electric screwdriver uses CORETEC imported from Japan (can be customized according to customer requirements), and the host computer program software is developed by Hacint, which can meet the customized needs of customers.

Features

- **Intelligent error prevention:**
Power-on inspection: Ensure that the output torque value of the electric screwdriver is in a high-precision state;
Locking and alarming: If the tightening value is not reached, the machine will alarm and self-lock;
Position alarm: The encoder controls the screw tightening coordinates, and only when the corresponding coordinates are met can the screw be tightened;
Scan recognition: Use a scanner to quickly identify products and associate them with torque values;
Visual inspection: Using an industrial camera to take photos of products, it can recognize words/letters, shapes, and colors, Black and white and other functions;
Laser guidance: Utilize laser infrared guidance for coordinate machining positioning (optional);
Rework function: It can achieve intelligent rework based on visual inspection results;
Record keeping: The entire machine's records are communicated and saved through MES;
- **Convenient operation:**
It can be equipped with canvas pockets for convenient storage of large and multiple wire bundles;
Visual software management for rapid identification of problem causes;
- **Operational safety:**
Independent start button, program fool-proofing, after placing the product,
Restart to prevent accidental operation.

Specifications

Type	HBQ-G401B
Torque Range	5~22N · m
Torque Accuracy	± 5%
Electric Batch Speed	540rpm/min
Interface Type	USB, RS232
Power	1500W
Power Supply	220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	L1010 × W910 × H1956mm, (worktable height≈840mm)
Weight	About 400kg



HBQ-G420 PRESSURE WORKSTATION

Introduction

HBQ-G420 is a semi-automatic pressure assembly machine. It is mainly used for tasks such as pressing fuses into electrical boxes, connecting charging ports of high-voltage wire harnesses, and connecting interfaces of energy storage connection wires, as well as other riveting products. The product pressure data can be uploaded to the MES system in real-time, and production logs can be queried for traceability. The device has multiple application scenarios. The pressure stroke can be custom-set, and the pressure recipe can be DIY-adjusted according to actual needs. The machine is equipped with a visual inspection function, and the visual recipe can be set according to the actual product. It has a dual-station processing function, which shortens the product processing cycle time (CT). There are four optional ways to read products by scanning codes: no barcode, fixed barcode, non-fixed barcode, and regular series barcode. It is widely applicable to various series of marked products. The host computer program software is developed by Haichang Intelligence, which can greatly meet the customized needs of customers. The whole machine mainly consists of a frame, a three-axis servo module, a precision pressure sensor, a host computer, a PLC, a display component, and a dual-station fixture. The fixture can be custom-designed according to the shape of the customer's product. The device has error-prevention and fool-proof functions. If the set product is not completely processed or the pressure fails, the device will automatically lock the product and give an alarm. Only authorized personnel can unlock it, which can effectively prevent defective products from flowing into the next process.



Features

- **Intelligent error prevention:**
Visual inspection: Performing visual inspection on products, which can identify characters, colors, shapes, presence or absence of black and white, etc;
Pressure alarm: If the pressure does not reach the standard range, the equipment will alarm and automatically lock to execute the repair procedure;
Failure alarm: According to product requirements, other failure modes beyond pressure qualification can be identified, such as bent fuse pins;
Scanning recognition: Use a scanning gun to quickly identify products and bind process parameters;
Station switching: Adopting dual-station switching to effectively shorten the processing cycle time (CT);
- **Convenient operation:**
Equipped with a material storage area for convenient storage and retrieval of materials;
Visual software management for rapid identification of problem causes;
- **Operational safety:**
The equipment is equipped with a safety light curtain and a pressure protection upper limit recognition function, and the safety door is equipped with a sensor recognition system to maximize personnel safety.

Specifications

Type	HBQ-G420	Power	2200W
Pressure Range	5~500N (core components can be changed according to actual products)	Power Supply	220V/50Hz
		Air Supply	0.5~0.7MPa
Pressure Accuracy	± 1‰	Overall	L1700 × W1000 × H2000mm
Capacity Efficiency	Single 1~2s (depend on products)	Dimensions	(worktable height≈900mm)
Coordinate Display	Standard	Weight	About 800kg
Interface Type	USB, RS232		

HBQ-G420A AUTOMATIC PRESSURE WORKSTATION

Introduction

HBQ-G420A is an automatic fuse – pressing machine, mainly used for pressing fuses into electrical boxes or other riveting products. The product pressure values can be uploaded to the MES system in real –time, and production logs can be queried for traceability. The machine has multiple application scenarios. The pressure stroke can be customized, and the pressure recipe can be adjusted DIY according to actual needs. The device is equipped with a visual inspection function, and the visual recipe can be set according to the actual product. It has a vibrating-disk feeding system and a mechanical magazine-type feeding system, which can realize the automatic pressing and installation of products such as fuses, relays, and slow-blow fuses, thus shortening the product processing cycle time (CT). There are four optional ways to read products by scanning codes: no barcode, fixed barcode, non-fixed barcode, and regular series barcode. It is widely applicable to various series of marked products.

The host-computer program software is developed by Haichang Intelligence, which can meet the customized needs of customers. The whole machine mainly consists of a frame, a four-axis robot, a precision pressure sensor, an automatic feeding component, a host computer, a PLC, a display component, and a fixture. The fixture can be custom-designed according to the shape of the customer's product. The device has error-prevention and fool-proof functions. If the set product is not completely processed or the pressure fails, the machine will automatically lock the product and give an alarm. Only authorized personnel can unlock it, which can effectively prevent defective products from flowing into the next process.



Features

- **Intelligent error prevention:**
Visual inspection: Performing visual inspection on products, which can identify characters, colors, shapes, presence or absence of black and white, etc;
Pressure alarm: If the pressure does not reach the standard range, the device will alarm and automatically lock to execute the repair procedure;
NOK failure alarm: According to product requirements, other failure modes beyond acceptable pressure can be identified, such as bent fuse pins;
Scanning recognition: Use a scanning gun to quickly identify products and bind process parameters;
Automatic feeding: Multi-station automatic feeding is adopted to shorten the processing cycle time (CT);
Pressure waveform: A precise pressure sensor is employed to record the pressure exerted on each product.
- **Convenient operation:**
Equipped with a handheld controller, it facilitates quick adjustments at any position of the equipment;
Visual software management for rapid identification of problem causes;
- **Operational safety:**
The equipment is equipped with a safety light curtain and a pressure protection upper limit recognition function, and the safety door is equipped with a sensor recognition system to maximize personnel safety.

Specifications

Type	HBQ-G420A	Power	3500W
Pressure Range	5~300N (customs available upon request)	Power Supply	220V/50Hz
Pressure Accuracy	± 1%	Air Supply	0.5~0.7MPa
Capacity Efficiency	Single 3.5~4s (depend on products)	Overall	L1800 × W1600 × H2200mm
Coordinate Display	Standard	Dimensions	(worktable height≈950mm)
Interface Type	USB, RS232	Weight	About 1100kg

YJM-AFS300I/YJM-AFE300I CRIMPING APPLICATOR

Introduction

- **Adjustment system:** Two structures, disc type and wedge block type, are available for your choice. The adjustment accuracy of C.H./I.H. is 0.02mm. With a range of 2.0mm, strong adjustment rhythm, and easy-to-identify scale, it meets your "demanding" requirements for crimping quality;
- **Modular structure:** Easy to adjust and maintain, with super flexibility creating unlimited expansion space, and being economical;
- **Pneumatic feeding mechanism:** A 40mm feeding step pitch can be easily achieved. The feeding speed can be adjusted conveniently. There are two options available: a compact cylinder and a guided cylinder. The precision linear motion unit ensures a straight path for you. The built – in valves operate precisely and orderly;
- **Directional valve structure:** Built-in directional control, stable and reliable;
- **Quick-change mechanism:** Perfectly compatible with semi-automatic and fully automatic crimping machines from brands such as KOMAX, AMP, MECAL, and Hacint;
- **Counter (accessory):** Upon request, a 7-digit circular counter can be provided to accurately record the number of stamping operations;
- **Technical documents:** A complete instruction manual for use and maintenance will be provided. If required, documents such as machine capability studies and cross – sectional analysis reports can also be provided.
- **Super rust resistance:** QW surface treatment;
- **Product traceability:** Each part has its own ID.



• YJM-AFS300I



• YJM-AFE300I

Specifications

Type	YJM-AFS300I	YJM-AFE300I
Slider Stroke	40mm	
Belt Type	Side Feed	End Feed
Closed Height	135.78mm (5.346in)	
Wire Diameter Range	0.08 ~ 6mm ² (9~28AWG)	
Terminal Material Thickness	1.2mm (max)	
Feeding Mechanism	Pneumatic	
Feeding Step Pitch	40mm (max)	
Overall Dimensions	L180 × W155 × H110mm	
Weight	5kg	

★ Related Products

- HBQ-2040EB Crimping Machine
- HBQ-X4040EB Crimping Machine
- HBQ-8040E Crimping Machine

S3D CRIMPING APPLICATOR

Introduction

- **Adjustment system:** C.H. offers two adjustment accuracies of 0.01mm and 0.02mm, with an adjustment range of 2.0mm. The adjustment rhythm is strong, and the scale is easy to identify, meeting your needs"Stringent" requirements for crimping quality;
- **Modular structure:** Easy to adjust and maintain, with ultra-flexibility creating unlimited expansion space, completely breaking the 1:1 pattern of terminals and crimping applicators, and being economical;
- **Feeding mechanism:** We offer both front feeding (semi-automatic) and rear feeding (fully automatic) solutions, with visible feeding steps;
- **Quick-change mechanism:** Perfectly compatible with semi-automatic and fully automatic crimping machines from brands such as KOMAX, AMP, MECAL, and Hacint;
- **Technical documents:** Provide complete instructions for use and maintenance. If requested, documents such as machine capability studies and cross-section analysis reports can also be provided;
- **Super rust resistance:** QW surface treatment;
- **Product traceability:** Each part has its own ID.

Specifications

Type	S3D
Slider Stroke	40mm
Belt Type	Side Feed
Closed Height	135.78mm (5.346in)
Wire Diameter Range	0.08~6mm²
Terminal Material Thickness	1.2mm (max)
Feeding Mechanism	Mechanical
Feeding Step Pitch	30mm (max)
CH Adjustment Accuracy/Range	0.01 and 0.02
Overall Dimensions	L156 × W156 × H120mm
Weight	5kg



GS3M2 CRIMPING APPLICATOR

Introduction

GS3M2 crimping applicator is a European-style mechanical feeding applicators that utilizes a cam feeding mechanism, ensuring stable feeding and convenient adjustment. This applicators boasts advantages such as easy adjustment and stable crimping, making it widely applicable in the field of wire harness processing.

Features

- **Adjustment system:** The disc type and wedge block type structures can be freely switched, with a C.H./I.H. adjustment accuracy of 0.02mm. Adjustable range: 2mm; strong adjustment rhythm, easy-to-identify scale;
- **Material support structure:** Customized design, ensuring stable material feeding;
- **Quick-change structure:** Perfectly compatible with semi-automatic and fully automatic crimping machines from brands such as KOMAX, AMP, MECAL, Hacint, etc;
- **Technical documents:** Provide complete instructions for use and maintenance. If requested, documents such as machine capability studies and cross - section analysis reports can also be provided ;
- **Super rust resistance:** QW surface treatment;
- **Product traceability:** Each part has its own ID;
- **Cloud data:** Scan the QR code to view factory information in real time.

Specifications

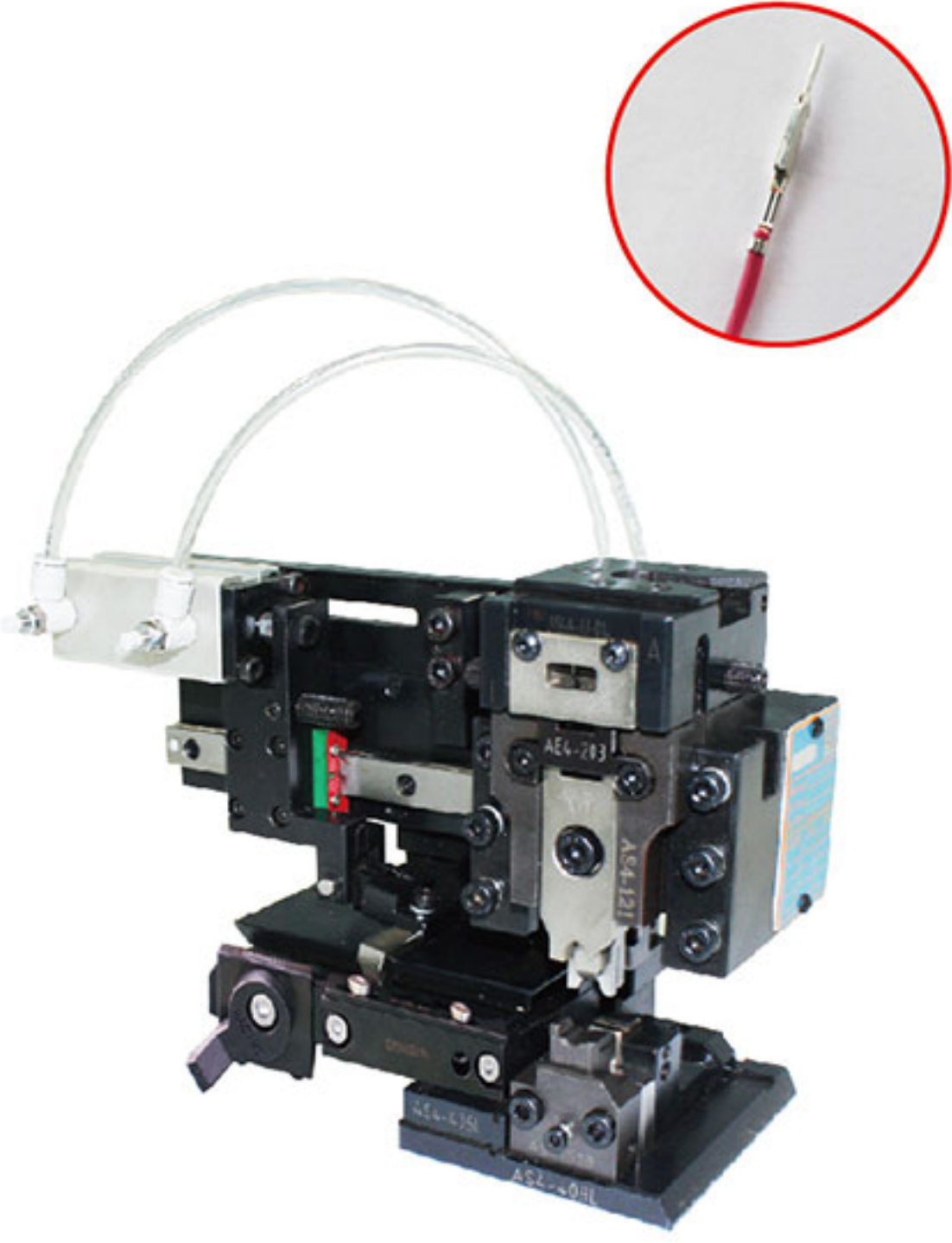
Type	GS3M2
Slider Stroke	40mm
Belt Type	Side Feed
Closed Height	135.78mm (5.346in)
Wire Diameter Range	0.08~6.0mm²
Terminal Material Thickness	0.8mm (max)
Feeding Mechanism	Mechanical
Feeding Step Pitch	28mm
Overall Dimensions	L200 × W150 × H170mm
Weight	5kg



AS4/AE4A CRIMPING APPLICATOR

Introduction

- **Adjustment system:** C.H. / I.H. adjustment accuracy of 0.02mm, adjustment range of 2.0mm, strong adjustment rhythm, The scale is easy to identify, eliminating the need to frequently adjust the closing height of the crimping machine;
- **Modular structure:** easy to adjust and maintain, with ultra-flexibility creating unlimited expansion space, and affordability;
- **Feeding mechanism:** It can easily achieve a feeding step distance of 40mm, with the feeding speed adjustable at hand. It features a compact cylinder and a guide belt Two options are available for the cylinder, and the precision linear motion unit ensures you'll never take a "detour" again;
- **Structure of directional valve:** built-in directional control, stable and reliable;
- **Quick-change mechanism:** perfectly compatible with semi-automatic and fully automatic crimping machines from brands such as ShinMaywa, JAM, KODERA, and Hacint;
- **Technical documents:** Provide a complete user manual, and if required, we can also provide machine capability stuapplicatorsss Section analysis report and other documents;
- **Super rust resistance:** QW surface treatment;
- **Product traceability:** Each part has its own ID.



• AS4A

Specifications

Type	AS4A	AE4A
Slider Stroke	30mm	
Belt Type	Side Feed	End Feed
Closed Height	119.7mm (4.713in)	
Wire Diameter Range	0.08 ~ 6mm ² (9~28AWG)	
Terminal Material Thickness	1.2mm (max)	
Feeding Mechanism	Pneumatic	
Feeding Step Pitch	40mm (max)	
Overall Dimensions	L225 × W128 × H100mm	
Weight	5kg	

★ Related Products

HBQ-2030JB Crimping Machine
HBQ-X4030JB Crimping Machine



• AE4A

XS4/E4 CRIMPING APPLICATOR

Introduction

- **Adjustment system:** C.H. / I.H. adjustment accuracy of 0.02mm, adjustment range of 2.0mm, strong adjustment rhythm, The scale is easy to identify, eliminating the need for frequent adjustments to the crimping machine's closing height;
- **Feeding mechanism:** Two options are available: front feeding (semi-automatic) and rear feeding (fully automatic);
- **Quick-change mechanism:** Perfectly compatible with semi-automatic and automatic systems from brands such as ShinMaywa, JAM, KODERA, and Hacint and so on;
- **Technical documents:** A complete instruction manual for operation and maintenance is provided. If required, documents such as machine capability studies and cross-sectional analysis reports can also be provided.
- **Excellent rust resistance:** QW surface treatment;
- **Product traceability:** Each part has its own ID.



• XS4

Specifications

Type	XS4	E4
Slider Stroke	30mm	
Belt Type	Side Feed	End Feed
Closed Height	119.7mm(4.713in)	
Wire Diameter Range	0.08 ~ 6mm ² (28~9AWG)	
Terminal Material Thickness	1.2mm (max)	
Feeding Mechanism	Mechanical	
Feeding Step Pitch	32mm (max)	
Overall Dimensions	L225 × W162 × H100mm	
Weight	5kg	

★ Related Products

HBQ-2030JB Crimping Machine
HBQ-X4030JB Crimping Machine



• E4

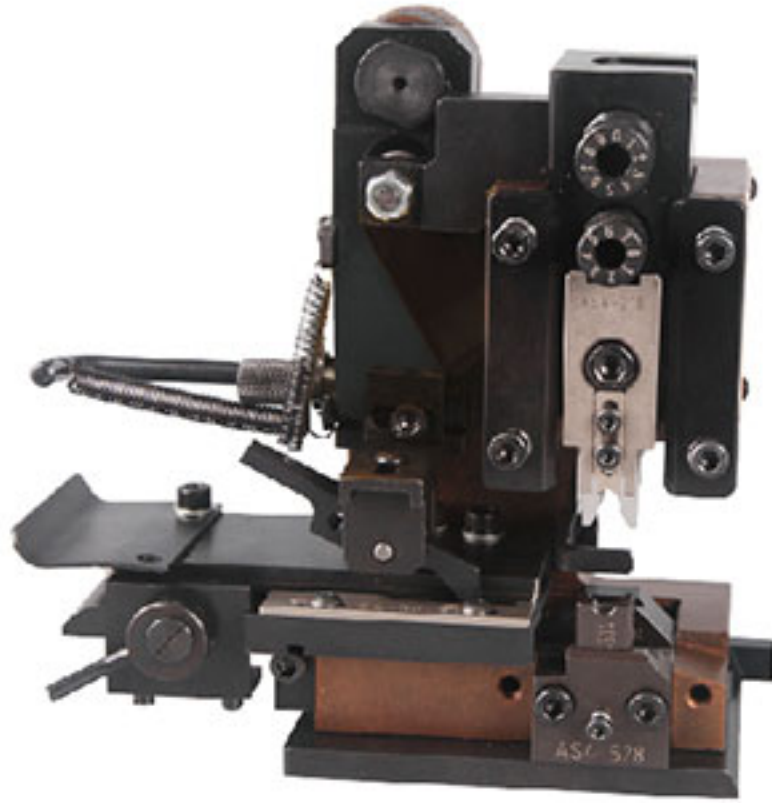
YJM-4XA/YJM-100 CRIMPING APPLICATOR

Introduction

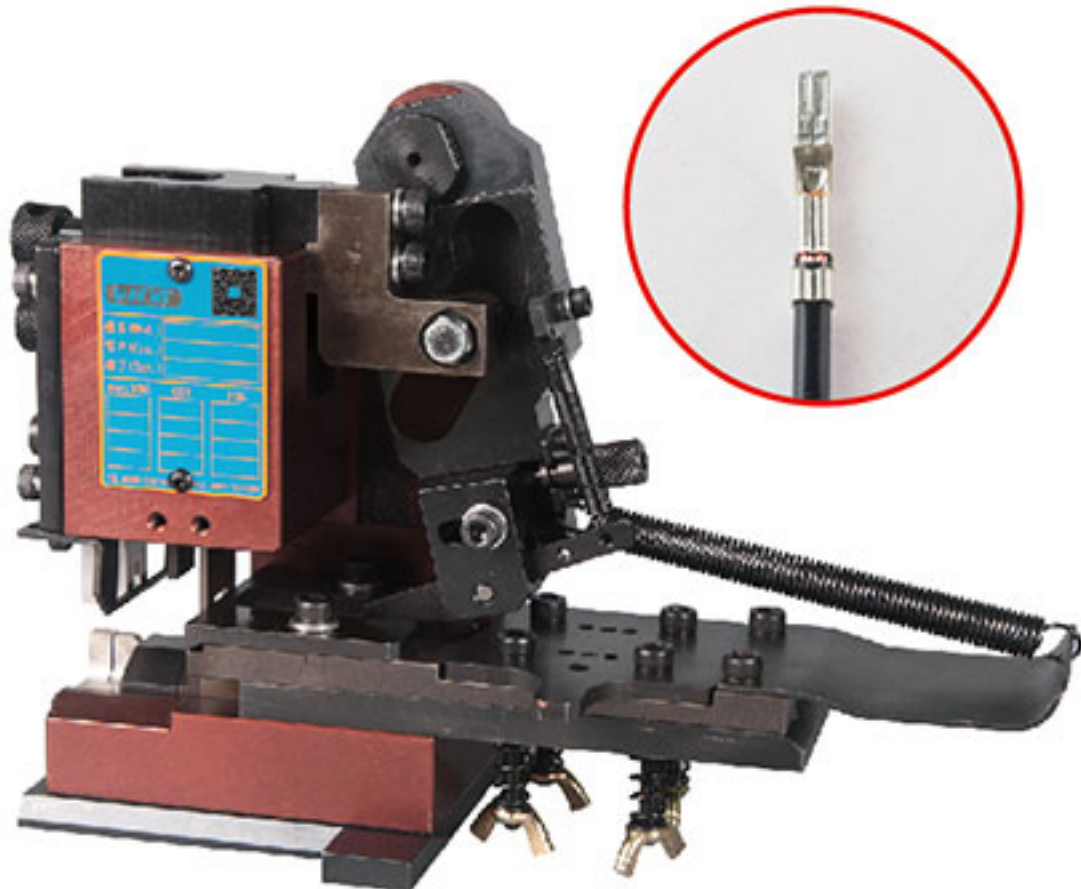
With two decades of manufacturing experience, this crimping applicators has withstood the test of time due to its cost-effectiveness, durability, and stable quality.

Function

- **Adjustment system:** C.H./I.H. adjustment accuracy of 0.05/0.1mm, adjustment range of 0.45/0.7mm;
- **Stable performance:** Stable performance stems from the high-precision coordination of components;
- **Quick-change mechanism:** Perfectly matches both semi-automatic and fully automatic crimping machines that adhere to mainstream Japanese standards.



● YJM-4XA



● YJM-100

Specifications

Type	YJM-4XA/YJM-100
Slider Stroke	30mm
Closed Height	119.7mm
Wire Diameter Range	0.08 ~ 6mm ²
Belt Type	Side Feed / End Feed
Terminal Material Thickness	1.2mm (max)
Feeding Mechanism	Mechanical
Feeding Step Pitch	32mm (max)
Overall Dimensions	L180 × W167 × H92mm
Weight	4kg

GS3M4 CRIMPING APPLICATOR

Introduction

- **Adjustment system:** Core height (C.H.) adjustment accuracy 0.025mm, adjustment range 6.0mm; insulation height (I.H.) adjustment accuracy 0.033mm, adjustment range 6~10mm, with strong adjustment rhythm, easy-to-identify scale, and no need to frequently adjust the closing height of the crimping machine;
- **Quick-change mechanism:** Compatible with Korean-style semi-automatic and fully automatic crimping machines;
- **Feeding mechanism:** The feeding mechanism adopts a mechanical cam structure.

Specifications

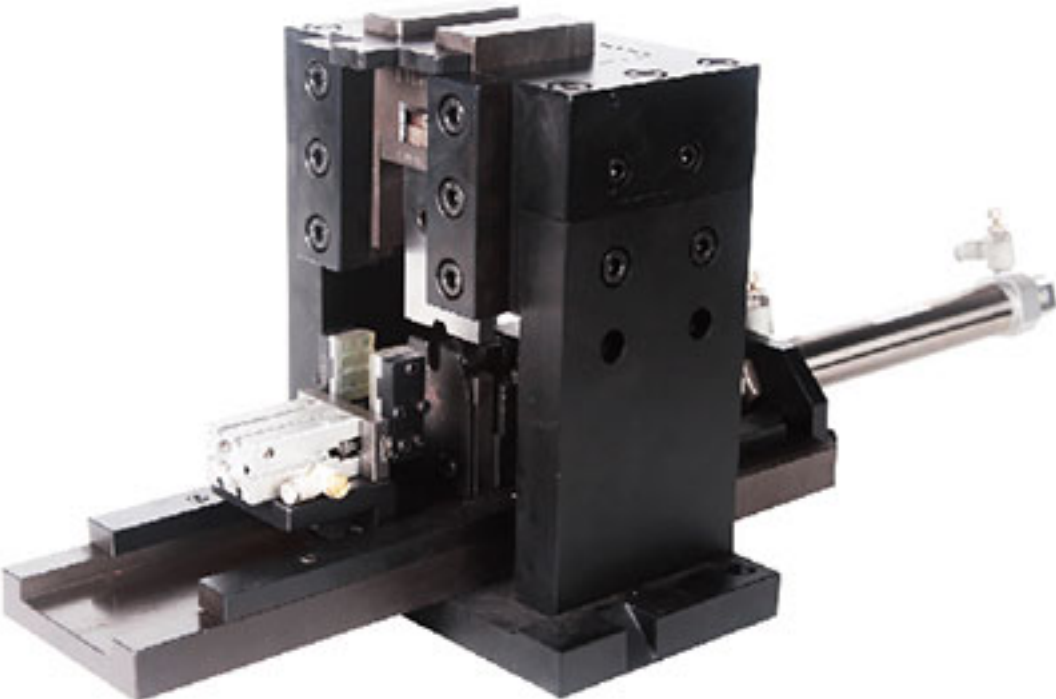
Type	GS3M4
Slider Stroke	30mm
Closed Height	149 ± 3mm
Wire Diameter Range	4mm ² (max)
Belt Type	Side Feed
Terminal Material Thickness	1.2mm (max)
Feeding Mechanism	Mechanic
Feeding Step Pitch	26mm (max)
Overall Dimensions	L180 × W100 × H170mm
Weight	5kg



CLM EV CRIMPING APPLICATOR

Introduction

- **Applicable products:** Suitable for crimping single-cell battery terminals, emerging as an upgraded version of the crimping applicators for punch presses;
- **Modular structure:** With a modular structure, crimping components can be ordered separately, further reducing procurement costs;
- **Performance improvement:** The adoption of a pneumatic pulling structure allows the placement of terminals and wires away from the crimping area, providing a wider field of view, the operation is more convenient, greatly improving work efficiency and comfort level;
- **Adjustment system:** I.H. boasts precise adjustment accuracy and an extensive adjustment range, making it effortless to adjust the height of insulation crimping;
- **Reliable quality:** Pneumatic wire clamping device ensures stability and consistency of the crimping position;
- **Safety protection:** The installation of safety sensors has greatly improved the safety factor of operations;
- **Product traceability:** Each part has its own unique identifier.

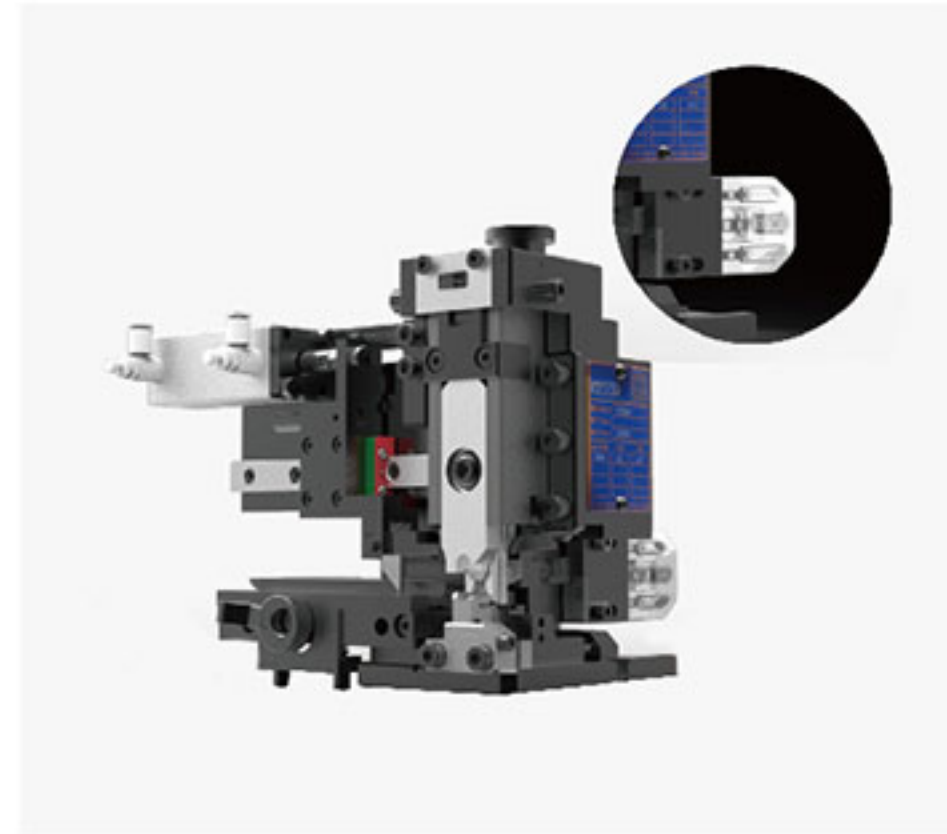


Specifications

Type	CLM
Slider Stroke	40mm/50mm
(C.H and I.H) Insulation Crimping Height Adjustment Accuracy/Range	0.05mm/5mm
Belt Type	Loose
Closed Height	197.5mm (7.776in)
Wire Diameter Range	75mm ² (max)
Terminal Material Thickness	2.0mm (max)
Overall Dimension	L215 × W215 × H580mm
Weight	About 18kg

★ Related Products

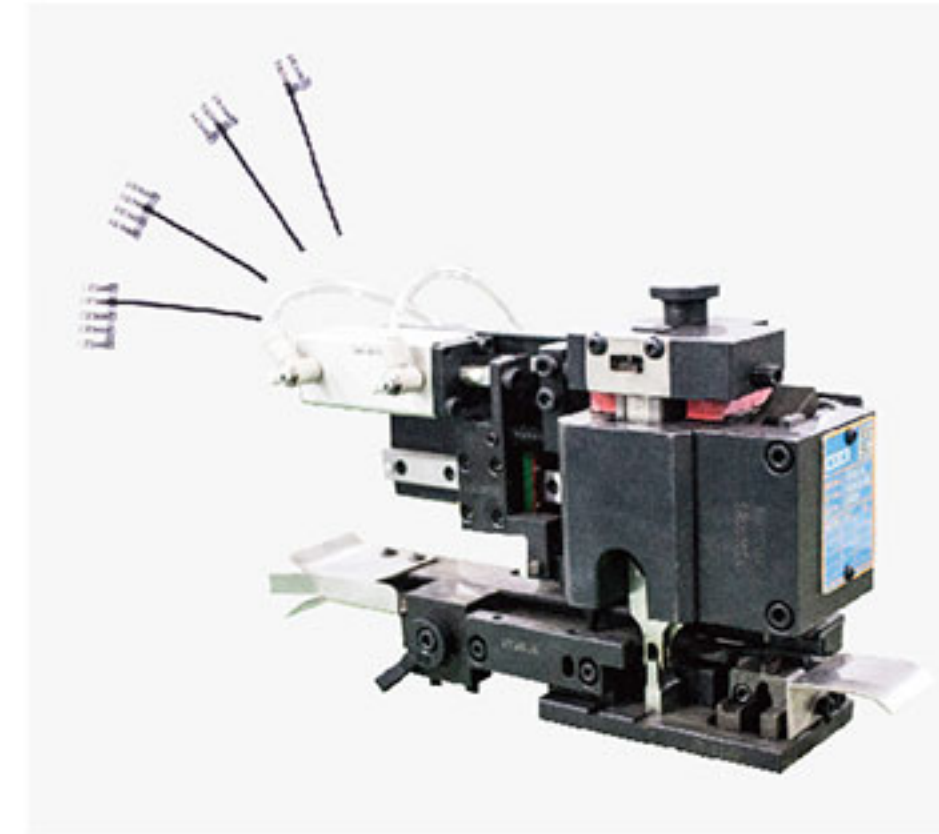
HBQ-P20/P30 Crimping Machine



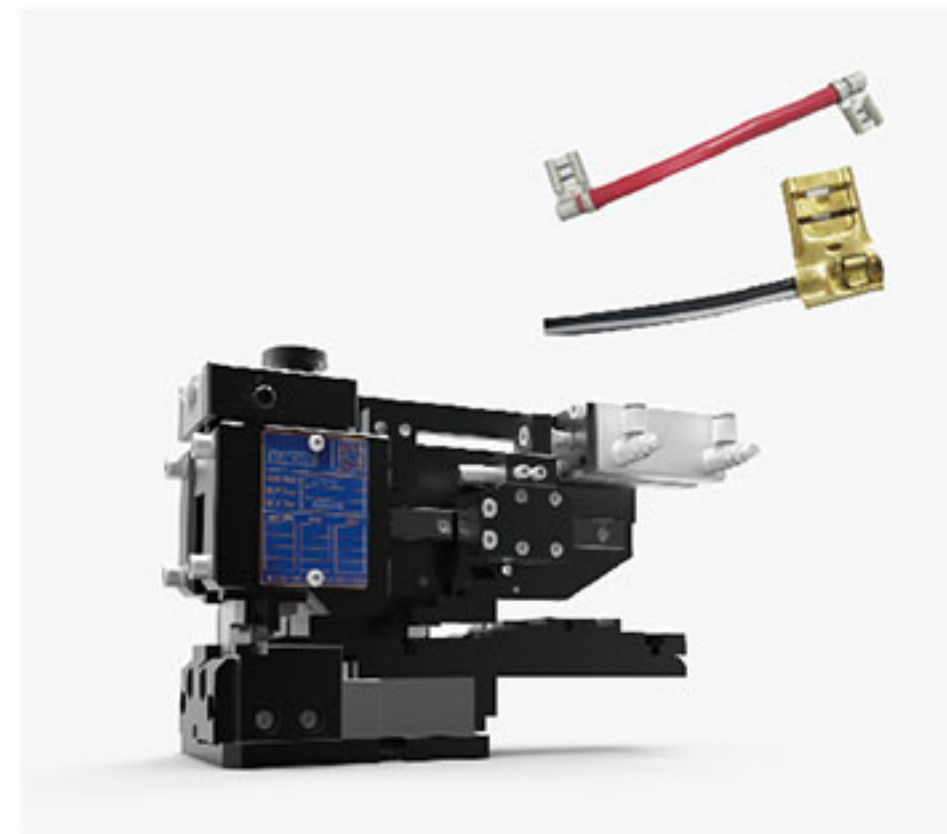
AFS300B-S SENSING APPLICATOR



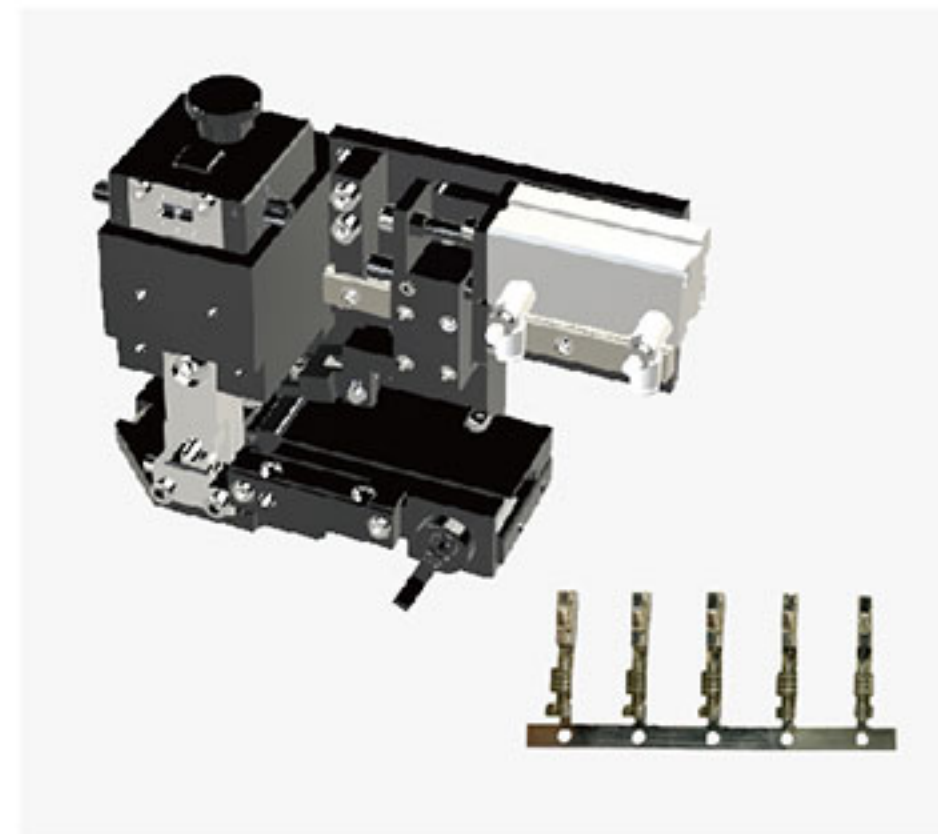
AFS300K CRIMPING APPLICATOR



AFTCA COUNTING CRIMPING APPLICATOR



NEFTCA-X FLAG TERMINAL CRIMPING APPLICATOR



ADS CRIMPING APPLICATOR



YJM-AFS300M CRIMPING APPLICATOR



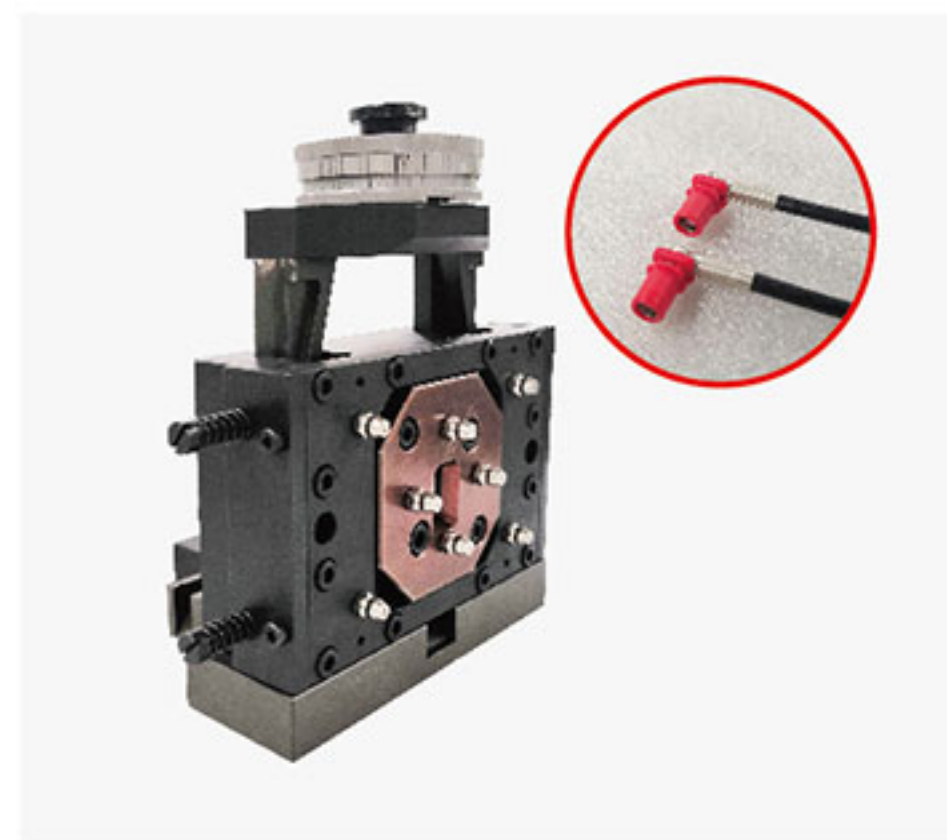
ESTA CRIMPING APPLICATOR



FPCA FOUR POINTS CRIMPING APPLICATOR



SPCA SIX POINTS CRIMPING APPLICATOR



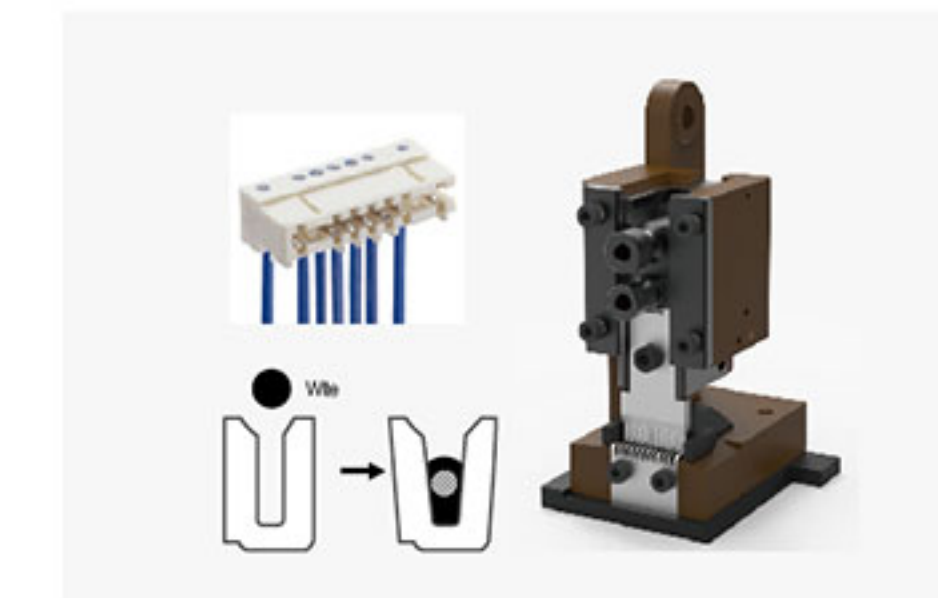
RFPCA CRIMPING APPLICATOR



EHCA CRIMPING APPLICATOR



NANO CRIMPING APPLICATOR (S4B)



DYM-C CRIMPING APPLICATOR



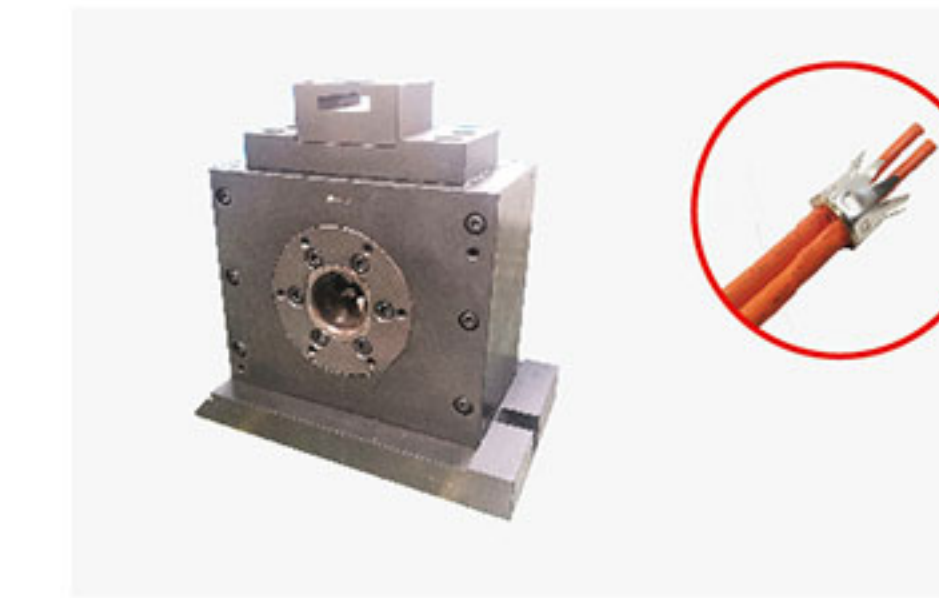
LCMS HEAVY DUTY CRIMPING APPLICATOR



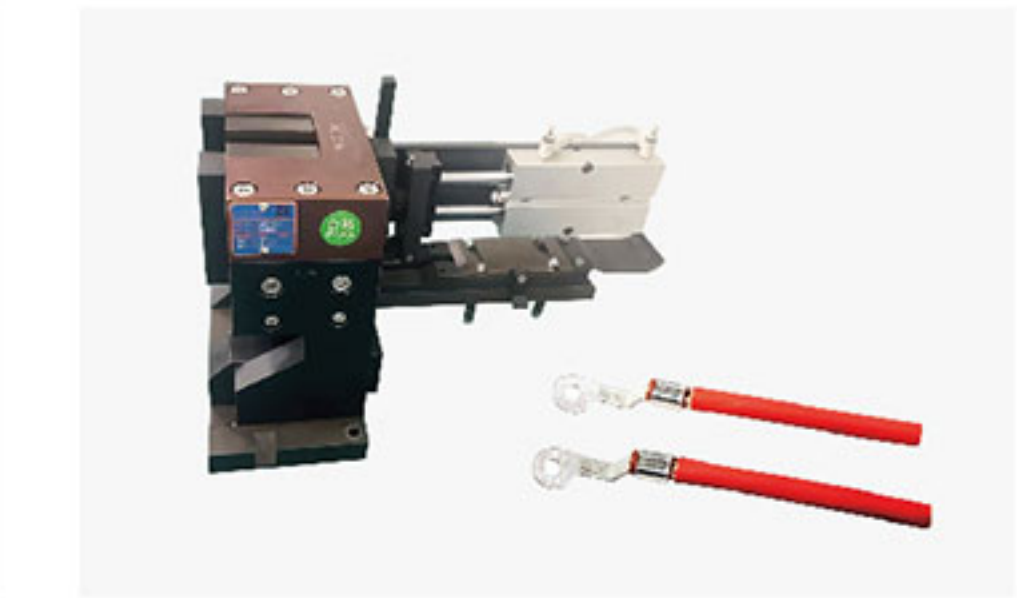
HCA CRIMPING APPLICATOR



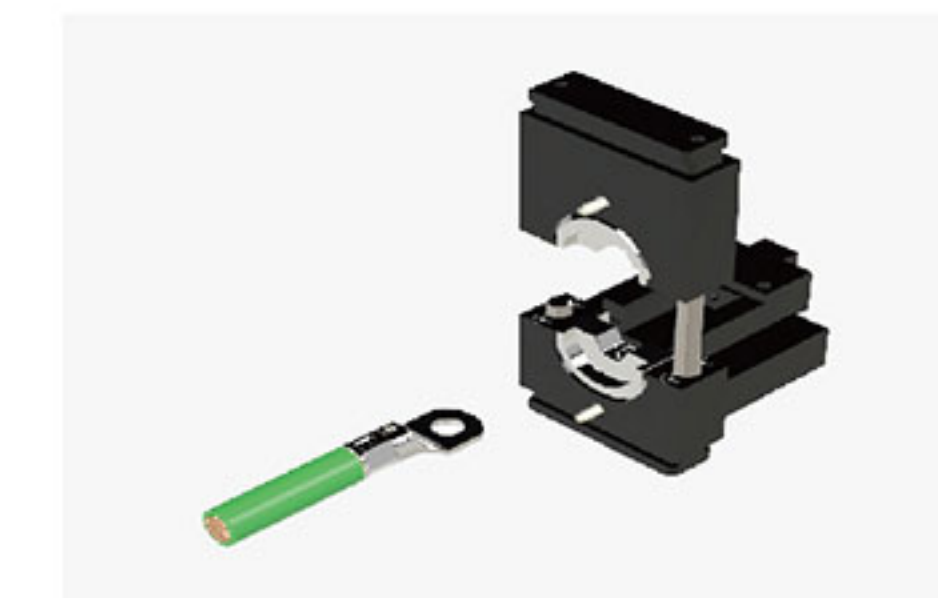
NHCA CRIMPING APPLICATOR



HSPCA CRIMPING APPLICATOR



LCME CRIMPING APPLICATOR

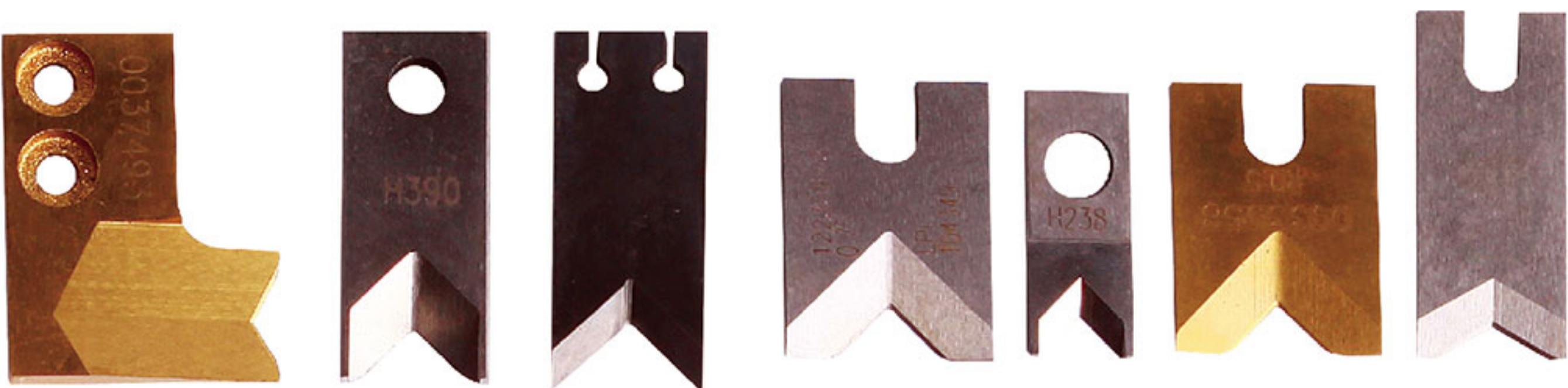


WHCA CRIMPING APPLICATOR

VULNERABLE PARTS (CRIMPING TOOLS ETC.)

Introduction

- According to their structure, they can be divided into Japanese-style cutting tools, European-style cutting tools, and special cutting tools;
 - The tool materials are all carefully selected, with excellent hardness and toughness, ensuring durability and wear resistance;
 - Advanced production equipment and mature technology;
 - Laser engraving, with special protection at the cutting edge;
 - Depending on different application scenarios and customer requirements, surface coating treatment can be carried out;
- In addition to our company's standard products, we can also tailor-make products for you.



★ Related Products

All kinds of applicators
HBQ-041 Automatic Wire Stripping Machine
Waste Cutting Module



HCS6000 TESTING TABLE



Introduction

The HCS6000 testing table is primarily designed for voltage testing of high-voltage cables, particularly suitable for voltage testing of new energy wire harnesses. Test items include: low-voltage continuity testing, air tightness testing, and AC withstand voltage testing Voltage test, DC withstand voltage test, insulation resistance test, micro-resistance test (four-wire method), electronic lock inspection, etc.

Features

- **Reliable quality:** The instrument adopts well-known brands in the industry, ensuring accurate, stable, and reliable test results. It utilizes imported high-voltage relays and has an independently developed point box;
- **Diverse testing:** Air tightness supports positive and negative pressure switching;
- **Improved testing speed:** Air tightness and electrical performance can be tested simultaneously, reducing testing time, or tested sequentially;
- **Rapid customization:** Self-developed upper and lower computers, with good flexibility, can meet various process flows;
- **Product traceability:** It can be connected to MES to enable data exchange and product record traceability.

Specifications

Type	HCS6000
Air Supply	0.5~0.6MPa
Power Supply	AC220V/50Hz
AC Withstand Voltage Testing	0~5.20kV (precision of 0.01kV)
Insulation Resistance Testing	0.01MΩ~99.9GΩ在10V~1020VF (precision of 0.01kV)
Power	850W (max)
DC Withstanding Voltage Testing	0~6.10kV (precision of 0.01kV)
Testing Speed	>1024 point/second
Overall Dimensions	Customizable
Weight	According to different testing tables

HCS-CBL EV WIRE HARNESS TESTING TABLE



Introduction

HCS-CBL EV wire harness testing table is used to test the electrical performance (conductivity, insulation, voltage resistance, micro-resistance, airtightness, etc.) of EV wire harnesses and related connectors of EV wire harnesses Insertion and extraction force (insertion force, extraction force, button pressing force, etc.), and the ability to meet relevant tests for different EV wire harnesses by replacing fixtures, greatly improves the adaptability and utilization of the equipment increase efficiency, reduce production costs, and shorten product development cycles.

Features

- **Independent development:** The equipment is completely independently developed, supporting customized needs;
- **Elegant appearance:** The body is primarily in a clean industrial gray, with a simple and elegant overall structure;
- **Quick product change:** The equipment fixtures support quick change and can be adapted to a variety of products;
- **Comprehensive functionality:** It meets general electrical performance and airtight testing requirements, boasts a wide measurement range, and facilitates easy parameter adjustment. Equipped with a printer, scanner, and other accessories, it caters to various customer's needs and can store up to 100 sets of process parameters;
- **High precision:** Stable insertion and extraction force detection, with high accuracy in repeated tests;
- **User-friendly interface:** The user-friendly human-machine interface and more intuitive graphical display enhance visibility and operability. The operation page supports switching between Chinese and English;
- **Product traceability:** It supports connection to MES and is equipped with video surveillance, capable of local storage for three months, facilitating easy traceability.

Specifications

Type	HCS-CBL
Insertion and Extraction Force Range	0~200N
AC Withstand Voltage Testing	0~5.20kV (precision of 0.01kV)
Power Supply	AC220V/50Hz
Power	3000W (max)
Insulation Resistance Testing	0.01MΩ~99.9GΩ在10V~1020VF (precision of 0.01kV)
DC Withstanding Voltage Testing	0~6.10kV (precision of 0.01kV)
Overall Dimensions	Adjustable on request
Weight	600kg

CSA CABLE TIE TESTING TABLE

Introduction

CSA cable tie testing table is an installation and detection machine used in the wire harness industry, integrating the installation and detection of cable tie buckles. It addresses the issue of low efficiency caused by separate operations of cable tie installation and detection. With in – line detection of cable ties, it solves the problems of missed installation and incorrect installation, leading to a significant increase in efficiency.

Features

- **Automatic learning:** It can automatically learn the position of each pin point and customize the pin name;
- **Convenient operation:** Scan the QR code on the wire harness to directly enter the detection program;
- **Guidance operation:** Intelligent LED guidance makes operation more convenient;
- **Audible and visual cues:** Audible alerts and graphical displays provide clear and intuitive fault indications;
- **Precise control:** 3D design, simulated assembly, precise control of dimensions;
- **Independent development:** Fully independent research and development design, with effective guarantees for delivery and after-sales service.



Specifications

Type	CSA
Air Supply	0.5~0.6MPa
Power Supply	AC220V/50Hz
Measuring Range	2048 point (max)
Power	350W (max)
Overall Dimensions	customizable
Weight	Up to the structure

CSB VISUAL TEST TABLE FOR ELECTRIC BOX

Introduction

CSB is a special machine for electrical box detection independently developed by Hacint. It identifies and detects whether the installation position and direction of the electrical box fuse are correct through color comparison and character comparison methods. This machine adopts an advanced visual detection system, which can recognize a wide variety of complex fuse models and accurately determine the correctness of the installation position and direction of the fuses. The operation interface is simple and easy to understand, with stable and reliable performance and high detection efficiency. The overall machine adopts the industrial – grade integrated design standard, featuring a small size, light weight, safety and reliability. The workstations can be interchanged to meet the detection requirements of various electrical boxes.



Features

- **Easy operation:** Sampling is based on real-life photos, and the programming and operating system are simple and easy to use;
- **Intuitive information:** Visual programming interface, intuitive prompts for error areas, accompanied by correct images for comparison, and voice broadcast of results;
- **Support for rework:** Errors detected can be manually unlocked, modified, and re-inserted. If it passes the inspection, it will automatically unlock and eject the protective sleeve;
- **Record keeping:** After the test results are qualified, a qualified barcode will be automatically printed, and the test qualification record (photo or document) will be automatically archived, the records can reflect errors, modifications, and pass rates, and can be saved in various ways;
- **Fully functional:** Detect fuse links and relays (missing, incorrect, or multiple insertion) and their correctness;
- **Quick product changeover:** Humanized design, safe and stable, allowing for quick replacement of fixtures, enabling multi-purpose use of one machine;
- **High-precision detection:** The camera boasts high pixel density and excellent luminance vision, enabling rapid recognition of physical objects;
- **High detection efficiency:** Scanning and retrieving programs are efficient and convenient, with a short detection time of 3~6S;
- **User-friendly interface:** The user-friendly human-computer interface and more intuitive graphical display enhance visibility and operability.

Specifications

Type	CSB	Testing Speed	3~6s
Air Supply	0.5~0.6MPa	Overall Dimensions	L960 × W1010 × H1030mm
Power Supply	AC220V/50Hz	Weight	200kg (max)
Power	100W (max)		

CS TESTING TABLE

Introduction

CS testing table is a special equipment for wire harness detection independently developed by our company. The whole equipment adopts the industrial-grade integrated design standard. The main control part uses an industrial-grade computer, operating based on the Win7 system, with stable and reliable performance, which reduces the equipment failure rate. The I/O interface board uses surface-mounted electronic components, featuring low power consumption, small size, light weight, and high reliability. When editing drawings, it adopts a pipeline-style workflow, and is also accompanied by detailed help files, which facilitates the operation for users. While you use our products with ease, you can also experience the value of elevating your operational level to a leading position in the industry.



Features

- **System self-check:** The system hardware has a self-check function to prevent quality issues caused by errors in system hardware;
- **Comprehensive functions:** It can detect the continuity, open-circuit, short-circuit, wrong-circuit of wire harnesses, as well as loop resistance and relay functions. It also has detection functions such as airtightness (positive and negative pressure), locking piece, airbag, fuse, buckle, and can determine the installation direction of diodes in wire harnesses. Moreover, it supports the printing and scanning functions of one-dimensional and two-dimensional codes;
- **Permission management:** Different usage rights can be set according to different users, including three levels of rights: operator, administrator, and quality inspector. This can prevent quality problems caused by employees modifying the detection program on their own.
- **Simple interface:** Friendly PC interface, controlled by industrial computer, easy to connect to MES, supports both Chinese and English interfaces;
- **Diversified drawing editing:** There are three methods for editing drawing circuits: self-learning, wire number-based, and circuit table import;
- **Data universality:** It has housings library and module library editing functions, allowing for one-time editing and application across multiple drawings;
- **High speed:** Testing speed >1024 points/second, with the capacity to expand to over 4096 points;
- **Diverse display:** Image, list, and item-by-item display detection interface.

Specifications

Type	CS	Power	350W (max)
Air Supply	0.5~0.6MPa	Testing Voltage	0~5V
Power Supply	AC220V/50Hz	Testing Speed	>1024 point/second
Measuring Range	≥4096 point	Overall Dimensions	Customizable
Testing Current	1~10mA	Weight	Up to the structure

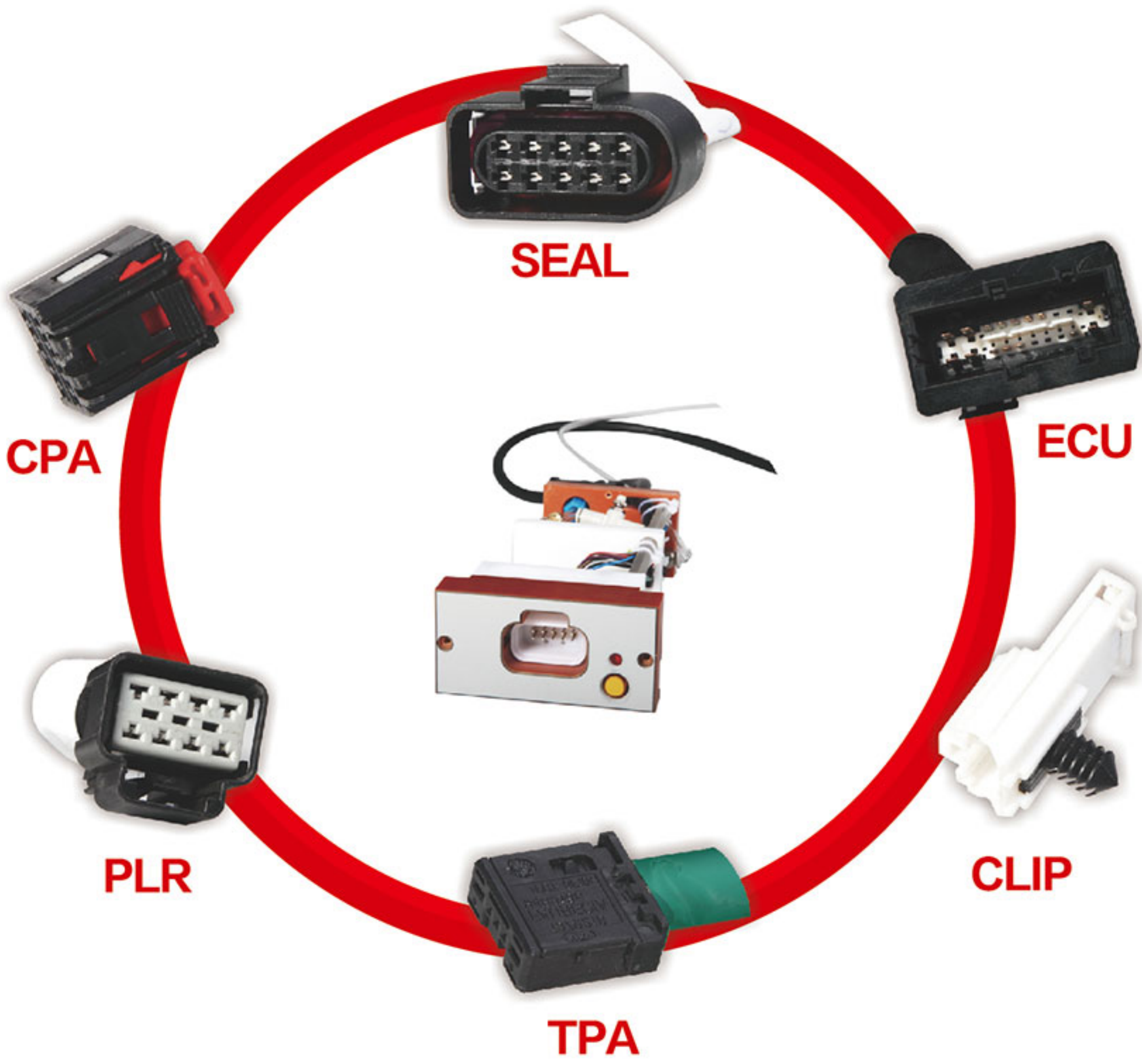
CS TEST TABLE

Features

- The function of importing and exporting the circuit table for convenient check;
- Memory and non-memory testing;
- Self-check function;
- The test interface of image, list and one-by-one display;
- Print and scan function for bar code and QR code;
- Stable system, anti-interference, expandable, and high test efficiency;
- One pin can finish the test for one entire connector and all the points.



Accessory Testing Function by Pneumatic Module



HBQ-G421 LASER HEIGHT VISUAL TESTING TABLE

Introduction

HBQ-G421 is a fuse-box visual height detection machine, mainly used for the visual recognition and height recognition of fuses, slow-blow fuses, and relays in electrical boxes. The height result data can be uploaded to the MES system in real-time, and production logs can be queried for traceability. The machine has multiple application scenarios. The visual formula and height detection formula can be adjusted DIY according to actual needs. There are four optional ways to read products by scanning codes: no barcode, fixed barcode, non-fixed barcode, and regular series barcode. The device has error-prevention and fool-proof functions. If the set product has visual defects or height defects, the device will automatically lock the product and give an alarm. Only authorized personnel can unlock it, which can effectively prevent defective products from flowing into the next process. It is widely adaptable to various series of marked products. The host-computer program software is developed by Hacint, which can greatly meet the customized needs of customers.

Features

● **Intelligent error prevention:**

Visual inspection: Performing visual inspection on products, which can identify characters, colors, shapes, presence or absence of black and white, etc;

Height detection: Perform laser height detection on the product, and determine the product height through laser scanning;

Failure alarm: Based on product requirements, it can determine the status of visual defects and height defects of the product;

Scan recognition: Use a scanner to quickly identify products and associate them with visual height formulas;

Fixture switching: Utilizing quick-change mechanisms and customizable formulas, rapid type changes can be achieved;

● **Convenient operation:**

Equipped with a material storage area, facilitating the storage and retrieval of materials;

Visual software management for rapid identification of problem causes;

● **Operational safety:**

The equipment adopts a fully enclosed structure, and the safety door is equipped with a sensor recognition system to ensure personnel safety.

Specifications

Type	HBQ-G421
Height Detection Accuracy	± 0.5mm
Capacity Efficiency	3~5s/15points (depend on products)
Interface Type	USB, RS232
Power	1200W
Power Supply	220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	L1050×W950×H1880mm (worktable height≈890mm)
Weight	About 300kg



HBQ-G422 VISUAL TESTING TABLE

Introduction

HBQ-G422 visual testing table is a semi-automatic visual inspection machine that can perform 360° visual tests on wire-type products, such as detecting flying-wire defects and measuring dimensions. There are four optional ways to read products by scanning codes: no barcode, fixed barcode, non-fixed barcode, and regular series barcode. It is widely applicable to various series of wire products. The host-computer program software is developed by Hacint, which can meet the customized needs of customers. The whole machine mainly consists of a frame, a positioning component, a visual inspection component, and an electrical component. If the product fails the inspection (NG), the machine will automatically lock the product and give an alarm. Only authorized personnel can unlock it, which can effectively prevent defective products from flowing into the next process.

Features

● **Intelligent error prevention:**

Visual inspection: Conduct visual inspection on products to identify issues such as flying threads and dimensions;

DIY Recipe: Customize recipe parameters according to product requirements;

Scan recognition: Use a scanner to quickly identify products and bind process formulas.

● **Convenient operation:**

Equipped with a touch screen, it facilitates quick adjustments at any position of the machine;

Visual software management enables rapid identification of problem causes.

● **Operational safety:**

The equipment adopts a fully enclosed structure, ensuring that all moving measurement components pose no contact risk to the human body.



Specifications

Type	HBQ-G422
Noise Level	<60dB (A)
Interface Type	USB, RS232
Power	600W
Power Supply	220V/50Hz
Air Supply	0.5~0.7MPa
Overall Dimensions	About 420 x 720 x 560mm
Weight	About 60kg



CSB-TXF100 VISUAL TESTING TABLE FOR FAKRA CABLE



Introduction

CSB-TXF100 visual testing table for fakra cable adopts a simple mechanism and intelligent control to achieve the testing of electrical properties (conduction, short-circuit, open-circuit, wrong-connection, insulation, withstand voltage) of FAKRA wires, concentricity (the relative position of the central conductor to the outer conductor), the size of the central hole opening, and error-proof identification of the connector color. With a high degree of integration and stable testing performance, it greatly improves the efficiency of wire harness testing.

Features

- **Structural stability:** A stable body provides the foundation for stable measurement;
- **Quick product changeover:** Modular design, simple and quick changeover solution, making product changeover convenient and efficient;
- **High added value:** Additional testing, comprehensive functions, and investment savings;
- **Lifespan management:** Probe lifecycle management to reduce consumable risks;
- **Concise and efficient:** Alarm information, solutions, clear and intuitive, highly integrated, without having to directly face the instrument layer;
- **Quality assurance:** Power-on inspection, verification of measurement accuracy, permission management, elimination of operational risks, customized MES for easy product traceability.

Specifications

Type	CSB-TXF100	Power Supply	AC220V/50Hz
C/T	≤15s (single hole double end wire, electrical test +concentricity+manual assistance)※2	Power	1000W (max)
		Voltage Withstand Testing	AC 50 ~ 1000V
Insulation Testing	DC 50 ~ 1000V	Data Storage	≥90 days
CCD Detection Accuracy	± 0.02mm	Overall Dimensions	L 1200 × W1055 × H1770mm
Air Supply	0.5~0.6MPa	Weight	500kg (max)

Notes :

※1: MES needs to be developed according to different customers;

※2: When the detection holes increase, C/T is not going to multiply, C/T is directly related to test parameters;

※3: For special parameters and function please contact with HACINT.

HCS-F FAKRA WIRE CONTINUITY TESTING TABLE



Introduction

The HCS-F FAKRA wire continuity testing table is built with aluminum profiles, featuring a simple and beautiful appearance. It can conduct tests on the continuity, short-circuit, open-circuit, and wrong-connection of FAKRA wires, as well as tests on various accessories. Additionally, it can perform insulation and withstand voltage tests within 1000V, identify the color of connectors and prevent errors. Moreover, it has characteristics such as high testing efficiency and stable performance, ensuring efficient and stable production output.

Features

- **Structural stability:** A stable body provides the foundation for stable measurement;
- **Quick product changeover:** Modular design facilitates quick and easy product changeover;
- **High added value:** Additional testing, comprehensive functions, and investment savings;
- **Safety protection:** Safety light curtain protection, effectively ensuring employee safety;
- **Lifespan management:** Probe lifecycle management to reduce consumable risks;
- **Concise and efficient:** Alarm information, solutions, clear and intuitive, listed display the result, with single-line detection time ≤3s;
- **Quality assurance:** Print labels, conduct permission management to eliminate operational risks. Customize MES (Manufacturing Execution System) to facilitate product traceability.

Specifications

Type	HCS-F
CT	Single wire inspection time≤3s
Insulation Testing	DC 50 ~ 1000V
Air Supply	0.5~0.6MPa
Power Supply	AC220V/50Hz
Power	300W (max)
Voltage Withstand Testing	AC 50 ~ 1000V
Overall Dimensions	customizable
Weight	Up to the structure

GZ-0012 AIR-LEAKAGE TESTING TABLE



Introduction

GZ-0012 air-leakage testing table is a special machine independently developed by our company for the air-tightness and conductivity testing of connector plastic housings. Through the PLC and host-computer system, this machine can not only detect the continuity of the interlocking pieces inside the plastic housing, but also control the air-tightness tester to inflate and maintain pressure on the connector, thus achieving the purpose of detecting connector leakage. It is mainly used to detect defects such as holes and cracks in the connector plastic housing during injection molding, as well as for the selection of seals and core wires in the wire harness design stage and incoming material verification.

Features

- **Easy to operate:** The testing piece is automatically locked upon insertion, and automatic testing and judgment are performed after the start button is pressed;
- **Good flexibility:** Inflation pressure, inflation time, holding time, detection time, etc. can be set, allowing for detection with different parameter requirements;
- **Interchangeability:** The software adopts a formula-based approach, and the testing tooling is designed with modularity, allowing for the replacement of different products.

Specifications

Type	GZ-0012
Air Supply	0.5~0.6MPa
Power Supply	AC220V/50Hz
Power	300W (max)
CT	Depending on the detection parameters
Overall Dimensions	customizable
Weight	200kg (max)

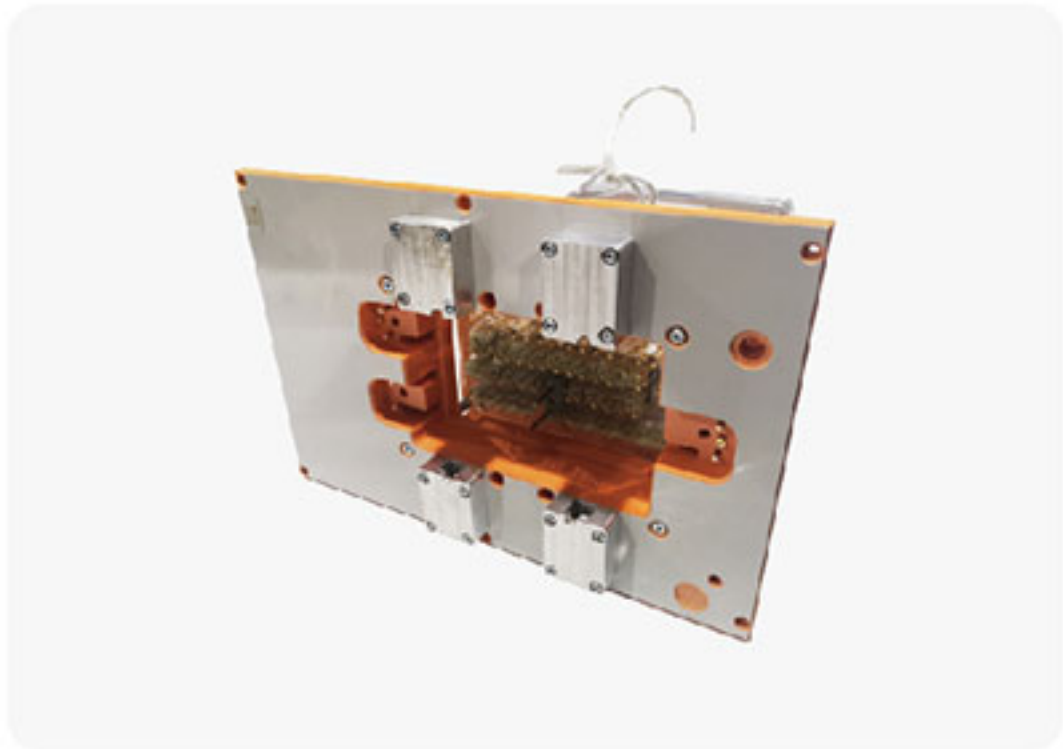
TEST MODULE



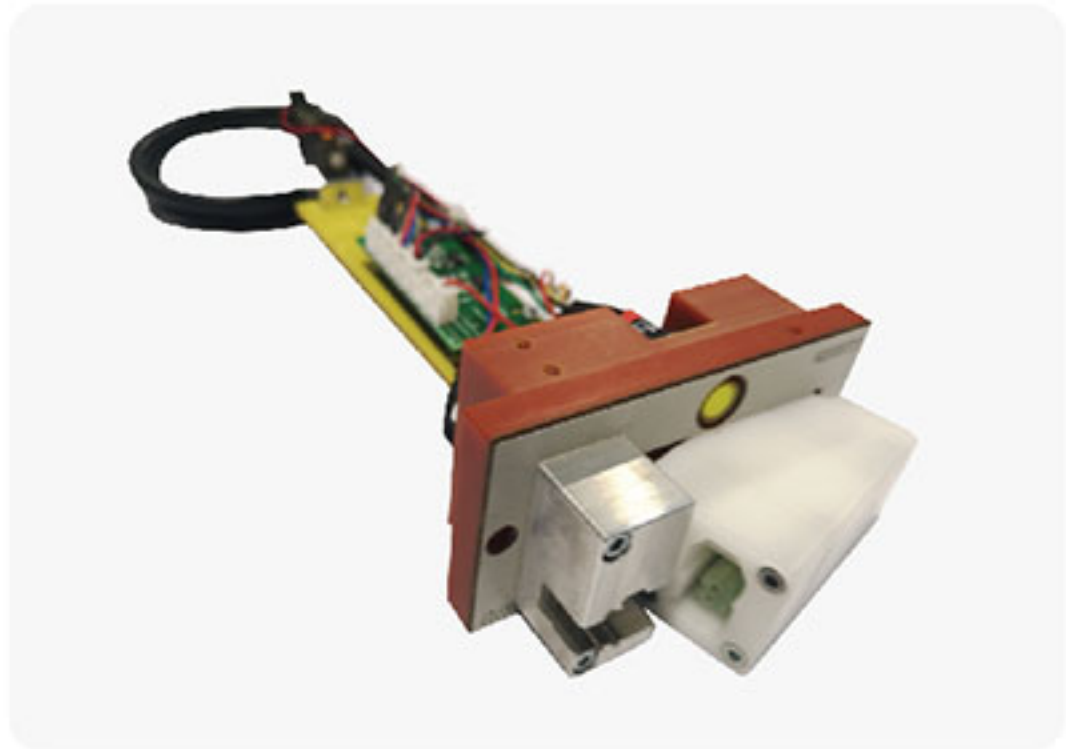
Above 40 pin ECU module



Push back module



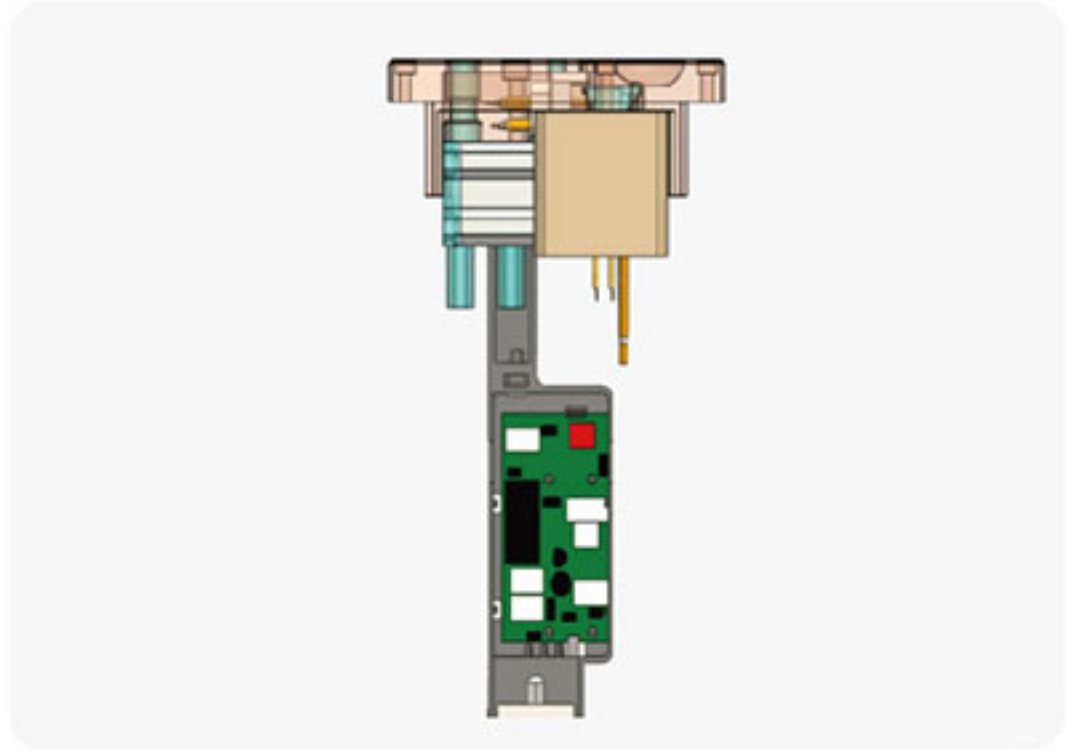
Fuse box module



Horizontal structure module



Convex locking plate module



Concave locking plate module



Airtight module



Dedicated USB module

HBQ-350 CROSS SECTION ANALYSIS CENTER

Introduction

HBQ-350 cross section analysis center is an integrated, multi-functional, high – end precision inspection and analysis machine for the quality inspection of wire harness terminals. It is mainly applied in the field of wire harness inspection. It can automatically cut, grind, corrode, clean wire harness terminals and analyze the terminal crimping quality. It enables one-key fully automated operation. The machine is simple and efficient, and the entire cross-section analysis process can be completed within 5 minutes.

Features

Intelligence:

Fully automated and intelligent cutting, grinding, etching, cleaning, and imaging;
The speed of multiple links in the system can be adjusted to meet different needs;
It supports intelligent hand-drawn/intelligent drawing, analysis, and generation of standardized profile analysis reports;
It supports setting multiple standard profile templates and switching between multiple operating languages to meet different needs.

Efficient:

The operation is simple and efficient, with over 95% automated operation;
One-click automation, capable of completing the entire profile analysis process within 3 to 5 minutes;
The profile results can be saved, uploaded, and remotely printed for easy viewing and management.

Accurate:

The equipment operates automatically and intelligently, with little human involvement in the process;
Intelligent automatic analysis, generate reports;
Servo motors are used in multiple links of the equipment to ensure precise positioning.



Specifications

Type	HBQ-350
Power Supply	AC220V
Air Supply	0.4~0.6 MPa
Wire Diameter Range	0.08~40mm ²
Corrosion Type	Acid
High Definition Microscope	20 million pixels
magnification	8~105X
Overall Dimensions	L985×W630×H1500mm (with base)
Weight	190kg (with base)



HBQ-052A/HBQ-053 CROSS SECTION ANALYSIS CENTER

Introduction

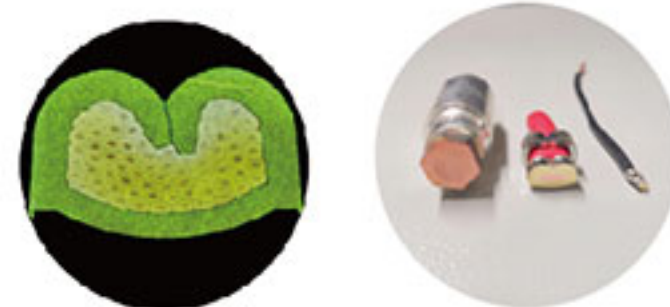
This product is an excellent analysis machine for inspecting the internal quality of terminal crimping in the wire harness industry. It consists of units such as terminal cutting, grinding, corrosion, cleaning, cross-section image acquisition, measurement and analysis, and report printing. It can complete the processing of one terminal within 3 to 5 minutes, improving the inspection speed of terminal cross-section quality. Its simple operation, high-quality image acquisition, and accurate measurement and analysis ensure the smooth running of your production.

Features

- **Convenient operation:** Ergonomic design, modular assembly, and streamlined workflow make operation more convenient and comfortable;
- **Simple structure:** One-time clamping, one-step completion, simple and quick cutting and grinding;
- **Ultra-thin cutting:** Special ultra-thin cutting grinding wheel for 0.5/0.6mm thickness, ensuring a smooth cutting surface for easy polishing;
- **Precision transmission:** Precision guide rail transmission ensures smoother cutting and grinding, resulting in more stable quality;
- **Clear corrosion:** Manual corrosion using acid/electrolyte solution results in a more uniform cross-section treatment and a more aesthetically pleasing image;
- **Fixed magnification camera:** The perfect combination of a high-quality optical system and a high-resolution camera makes the cross-section images clearer. The unique fixed-magnification and fixed-gear setting makes the measurement more accurate;
- **Variable-speed motor:** The three-phase motor is controlled by a frequency converter, featuring high starting torque and adjustable motor speed, meeting different requirements customer's needs.



HBQ-052A



HBQ-053

Specifications

Type	HBQ-052A	HBQ-053
Wire Diameter Range	0.35~25mm ²	0.35~120mm ²
Thickness of Cutting Blade	0.5mm	0.6mm
Corrosion Type	Acid corrosion	Electrolytic corrosion/Acid corrosion
Handling Time	3~5min	2~6min
High Definition Microscope	630M, USB 3.0	630M, USB 3.0
magnification	27.3~195X	27.3~195X
Profile Analysis Software	HCSS	X-scan (Germany) / HCSS (optional)
Power Supply	AC220V/50Hz	AC220V/50Hz
Overall Dimensions	L1840×W640×H1185mm	L2460×W640×H1290mm
Weight	176kg	450kg

HBQ-061C/064/065/065-E/411 PULL FORCE TESTER

Introduction

HBQ-06X series pull force tester is a special tensile testing machine. It is used to measure the pull off force of wires, welding terminals and seals. The machine adopts an embedded control system, which endows it with remarkable stability and accuracy. It can meet the requirements of networking equipment in modern factories, facilitating the formation of networks.



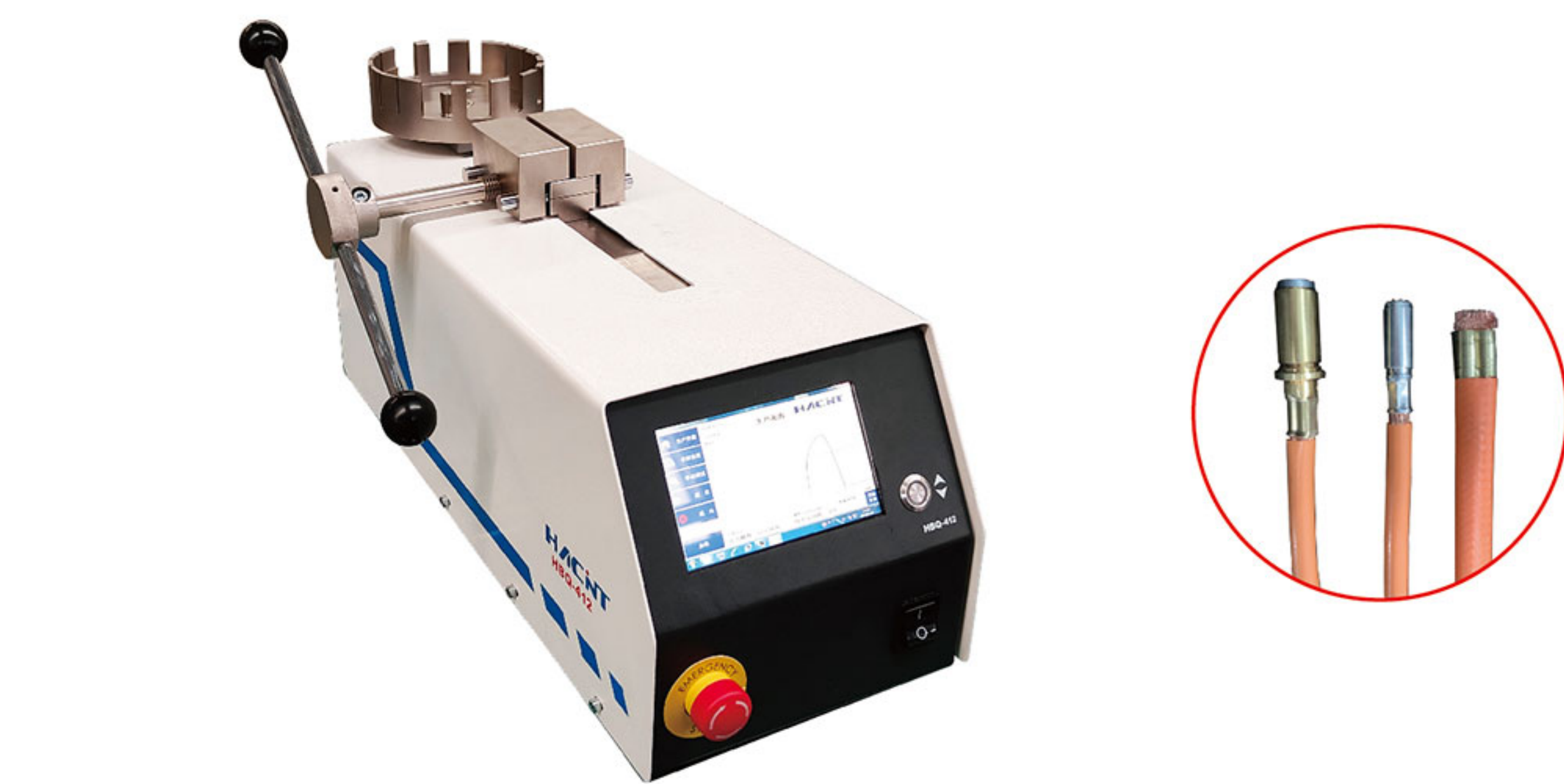
Features

- **Automatic reset:** The automatic reset conditions can be set, and it will automatically reset after the terminal is pulled off;
- **System settings:** It is convenient to set system parameters such as test upper and lower limits, calibration, and pull off conditions;
- **Force limit restriction:** Alarm prompts when the test force value exceeds the set upper and lower limits;
- **Unit conversion:** Quick conversion between kg and N units, which can be set to be enabled at startup;
- **Communication connection:** It can send instructions to control the testing machine through serial port/network port (411), return peak tension values, and also enable data interaction to return text data or import into the MES system (Communication protocol is open);
- **Data display:** It can simultaneously display real-time tension and peak tension;
- **Data processing:** Testing data can be recorded, transmitted, and cleared, facilitating data processing.

Specifications

Type	HBQ-061C	HBQ-064	HBQ-065/065E	HBQ-411
Power Supply	AC220V/AC110 (optional)			
Power	40W (max)	30W (max)	40W (max)	750W (max)
Sampling Frequency	1kHz			
Measuring Range	5~500N /0.5~50kg	5~1000N /0.5~100kg	5~2000N /0.5~200kg	40N~10kN /4~1000kg
Measurement Accuracy	± 1%	± 1%	± 2%	± 0.5%
Overall Dimensions	L350 × W210 × H255mm	L310 × W183 × H88mm	L380 × W253 × H226mm	L760 × W450 × H1750mm
Weight	15kg	9kg	18kg	180kg

HBQ-412 10KN PULL FORCE TESTER



Introduction

HBQ-412 is a machine specifically developed by our company for the detection of pull off force of large square wire harness terminals, capable of detecting up to 10,000N of tensile force.

Features

- **Compact:** Exquisite, desktop horizontal tensile testing machine capable of withstanding tens of thousands of pounds;
- **Flexibility:** Both tension discs and clamps can be customized to accommodate different wire harnesses;
- **Powerful:** The entire testing process is controlled by a microcomputer, capable of displaying real-time dynamic tensile force values, testing speed, and testing curves.

Specifications

Type	HQB-412
Power Supply	220V/50Hz
Sampling Frequency	30Hz
Drag Speed	20~300mm/min
Measuring Range	10kN (max)
Measurement Accuracy	± 0.5%
Slider Stroke	120mm
Overall Dimensions	L490 × W185 × H230mm
Weight	30kg

Relate Product /Optional

Optional accessories: Customizable tooling

HBQ-413 PULL FORCE TESTER



Introduction

HBQ-413 is a micrometer-integrated tensile testing machine, an all-in-one machine that combines crimping height detection and tensile force testing.

Features

- **Versatility:**
It can perform height testing, tensile force testing, and data processing;
It can display the tensile force data in real time on the screen;
- **Precision:**
It can achieve tension measurement with a precision of 0.5 grade, and calibration is convenient;
Both tension discs and clamps can be customized to accommodate different wire harnesses;
Related products / accessories
- **Optional accessories:**
Tooling can be customized.

Specifications

Type	HBQ-413	Measuring Range	5~1000N/0.5~100kg
Power Supply	220V/50Hz	Measurement Accuracy	± 0.5%
Power	40W	Overall Dimensions	L380 × W270 × H240mm
Slider Stroke	38mm	Weight	18kg
Drag Speed	20~100mm/min		

Relate Product /Optional

Optional accessories: Customizable tooling

HBQ-401 CABLE TIE GUN TESTER



Introduction

HBQ-401 cable tie gun tester is a machine used to test the magnitude of the force when the cable tie gun cuts the cable tie.

Features

- **Data display:** It can simultaneously display real-time tension and peak tension;
- **Data processing:** Recording data during testing, with capabilities for data transmission and data clearance, facilitating data processing;
- **Unit conversion:** Kg and N unit conversion, and it can be set to power-on state;
- **Force limit setting:** Setting the upper and lower limits of the test force. An alarm prompt will be given when the testing force value is below the lower limit;
- **System settings:** Providing a corresponding settings interface for easy configuration of system parameters such as test upper and lower limits, calibration, and pull-off conditions.

Specifications

Type	HBQ-401
Measuring Range	5~500N/0.5~50kg
Measurement Accuracy	± 1%
Power Supply	AC220V/50Hz
Sampling Frequency	1kHz
Power	5W (max)
Overall Dimensions	L210 × W200 × H255mm (body)
Weight	10kg

HBQ-K638 HIGH – VOLTAGE CONNECTOR FLEXIBLE CABLE



Introduction

The main functions of the HBQ-K638 high-voltage connector flexible cable include the press-fitting of shielding cases, contact fingers/reeds, bushings, TPA (Terminal Position Assurance) and terminals; laser marking; installation of sealing rings; airtightness testing; electrical performance testing; visual inspection; automatic unloading, etc. This production line adopts a delicate mechanism and a flexible and intelligent control system to achieve the flexible assembly of multiple products. It is a connector assembly machine that provides more added value for customers.

Features

- **Diversified production:** The equipment is compatible with 5 types of connector products;
- **Support quick change:** The product supports quick change for equipment accessories;
- **Autonomous setting:** Support for recipe switching; Equipment with fool-proof features for different product materials;
- **Convenient operation:** User-friendly interface, comprehensive functions, and simple operation;
- **MES networking:** Each workstation of the equipment achieves MES traceability.

Specifications

Type	HBQ-K638	Power	6.5kW (max)
Processing Product	EV high-voltage connector	Overall Dimensions	L 16500 × 3300 × H2000mm
Air Supply	0.4~0.6Mpa	Weight	6000kg
Power Supply	AC220V/50Hz		

- Remarks:
1. Due to the wide variety of connectors, it is essential to provide samples.
 2. The above represents the processing range of typical products. For cases beyond this range, specific evaluations can be carried out.
 3. For individual special differences in contact fingers, reeds, sealing rings, etc., physical objects need to be obtained for evaluation.
 4. One set of product tooling is included as standard. If there are multiple types of wires, please place a separate order.

HBQ-K612 168W CONNECTOR MACHINE



Introduction

HBQ-K612 168W connector machine is an automatic production line. Its main functions include automatic cutting and insertion of pins, placing terminals into the injection molding machine, taking out finished products, guard plate assembly, line laser position scanning detection, continuity and withstand voltage testing, airtightness testing, laser marking, and product cleaning. Only one operator is needed to complete the operation. The terminal pin-cutting and insertion adopts a high – speed and high –precision servo-flexible structure, with the fastest insertion speed of up to 8 pins per second. Each product has 168 pins, and a six – axis manipulator is used for picking and placing. The production injection-molding cycle is 40 seconds (two cavities per applicator).

Features

- The equipment layout is aesthetically pleasing, with a simple and elegant overall structure, and easy manual operation;
 - Using two flexible pin modules for synchronous operation significantly shortens the production cycle;
- The terminal cutting and pin insertion utilizes a servo-controlled flexible structure, achieving high efficiency and precision. The pin insertion speed can reach up to 8 pins per second, with an accuracy of $\pm 0.02\text{mm}$;
- The service life of the cutting tool can reach up to 100,000 cycles;
 - Ensure operational safety by isolating the robotic arm with a protective net;
 - Utilize a six-axis robotic arm with a motion radius of 2700mm for material handling. This robotic arm boasts a wide operational range and strong load-bearing capacity;
 - 3D line laser is used to detect the positional accuracy of terminals on both sides of the housings, with an imaging detection accuracy of $\pm 0.04\text{mm}$.

Specifications

Type	HBQ-K612	Ambient Temperature	below 40℃
Power Supply	168W	CCD Detection Accuracy	$\pm 0.04\text{mm}$
Power	220V AC	Pinning Speed	rpm 180
CT (168pin)	15kW	Pinning Accuracy	$\pm 0.02\text{mm}$
Noise Level	40s (two holes in one applicator)	Overall Dimensions	L6300 × W3000 × H2100mm
Air Supply	$\leq 75\text{dB}$	Weight	7000kg

HBQ-Z108 8-DISC HORIZONTAL TERMINAL RECEIVER

Introduction

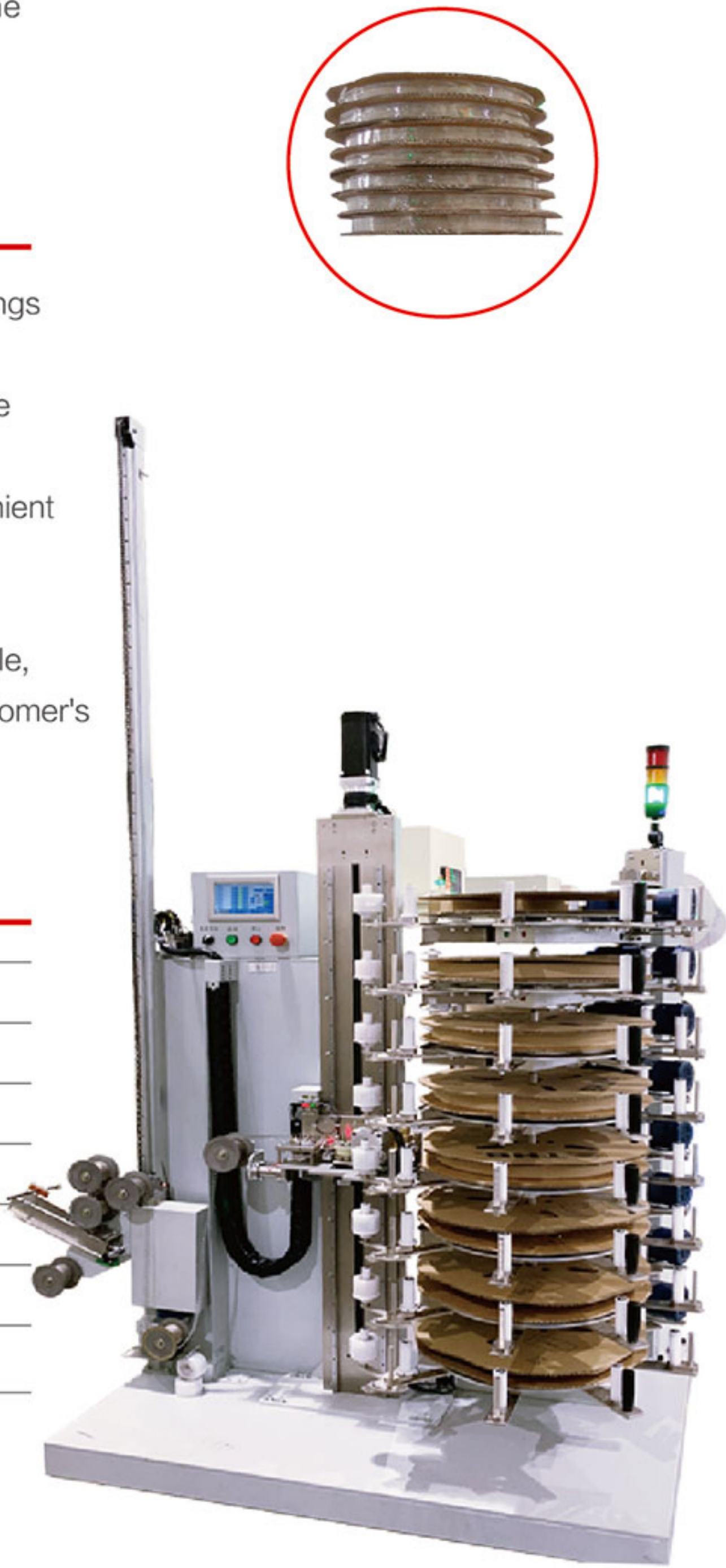
HBQ-Z108 8-disc horizontal terminal winding machine is a machine designed for winding strip-shaped materials.

Features

- **Strong winding capability:** It can complete 36 meters or 2000 windings per minute (whichever value is triggered first).
- **Small footprint:** The material tray is placed horizontally, reducing the length and width dimensions of the equipment;
- **Easy-to-use interface:** quick to learn, easy to operate, and convenient for recipe adjustment;
- **Modular design, strong expansion capability:** Modules such as the feeding and storage module, the up – down moving and cutting module, and the material tray module can all be adjusted according to the customer's requirements.

Specifications

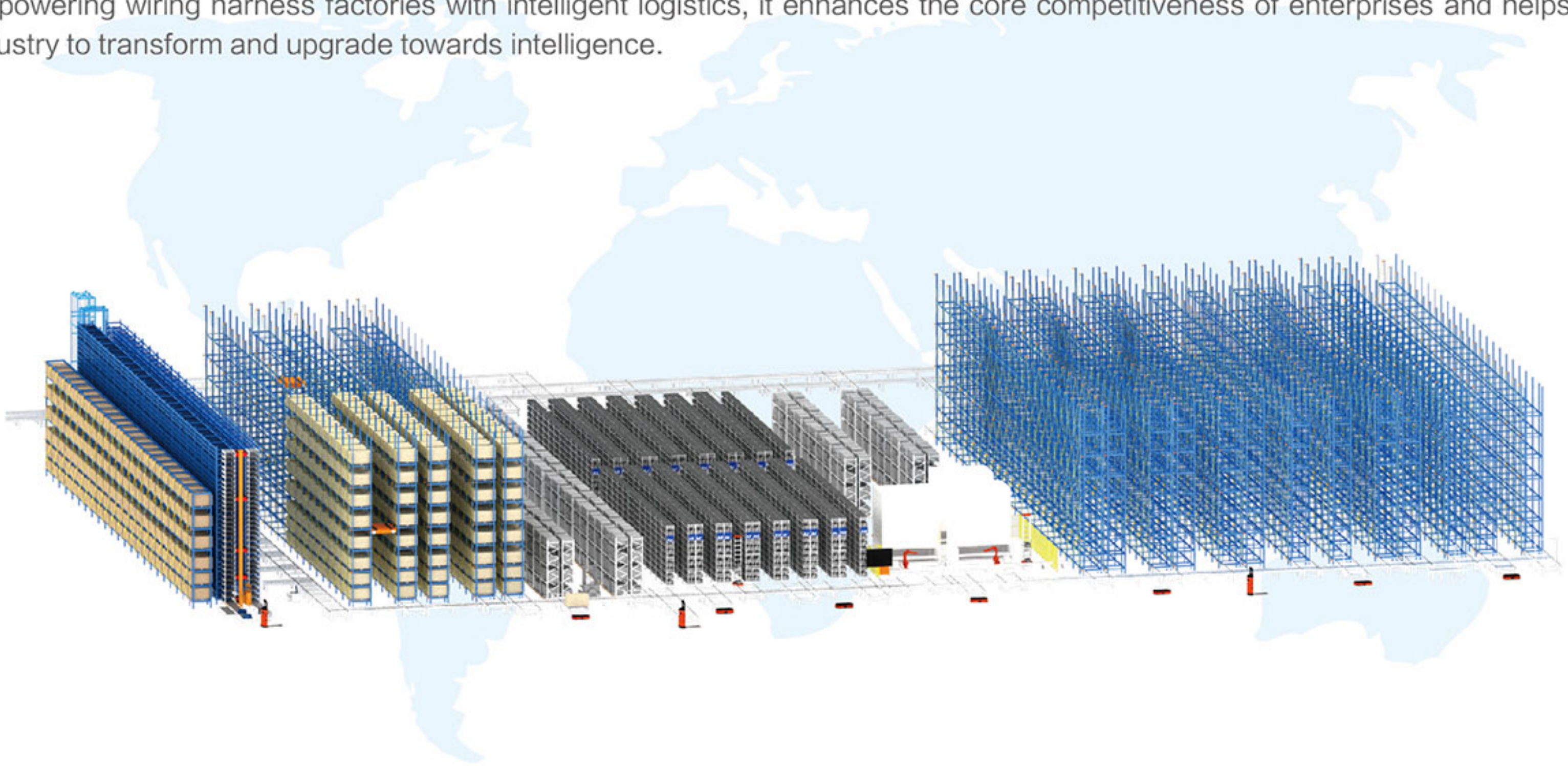
Type	HBQ-Z108
Counting Accuracy	± 6‰
Power Supply	AC220V/50Hz
Power	1.3kW
Air Supply	0.5~0.7MP
Overall Dimensions	L2400 × W1200 × H3050mm
Weight	550kg



INTELLIGENT LOGISTICS SERIES

Intelligent Logistics System Integration Solution for Wire Harness Factory

Intelligent Logistics Division of Hacint focuses on providing integrated solutions for the intelligent logistics systems of wire harness factories. It deeply integrates core equipment such as AS/RS, AMR, automated storage cabinets, picking workstations, and conveying equipment to build an intelligent logistics system covering the entire process. Relying on the overall scheduling and management of information systems such as WMS, WCS, and RCS, it achieves unmanned and precise material delivery. By empowering wiring harness factories with intelligent logistics, it enhances the core competitiveness of enterprises and helps the industry to transform and upgrade towards intelligence.



INTELLIGENT LOGISTICS



HMES HACINT MANUFACTURING WMS SYSTEM

Introduction

WMS system aims to provide customers with an integrated warehousing information solution covering the entire process from warehousing to outbound. It realizes full barcode management of orders, goods, and storage locations, solves basic problems such as discrepancies between accounts and actual situations and non-standard warehouse operations, and establishes a barcode-based operation process centered on logistics. Through operations such as receiving goods, shelving, transferring, and outbound, it improves inventory accuracy, conducts dynamic monitoring of the execution process, and enables information traceability. The system adopts a hybrid technical architecture and mainly features functions such as inventory data management, automated equipment docking, real-time recording of warehousing operations, electronic billboard monitoring, and information system integration. These functions greatly improve warehousing efficiency and the level of information-based management. At the same time, they ensure inventory accuracy and traceability, providing strong support for managers in on-site warehouse management and decision-making.

Function

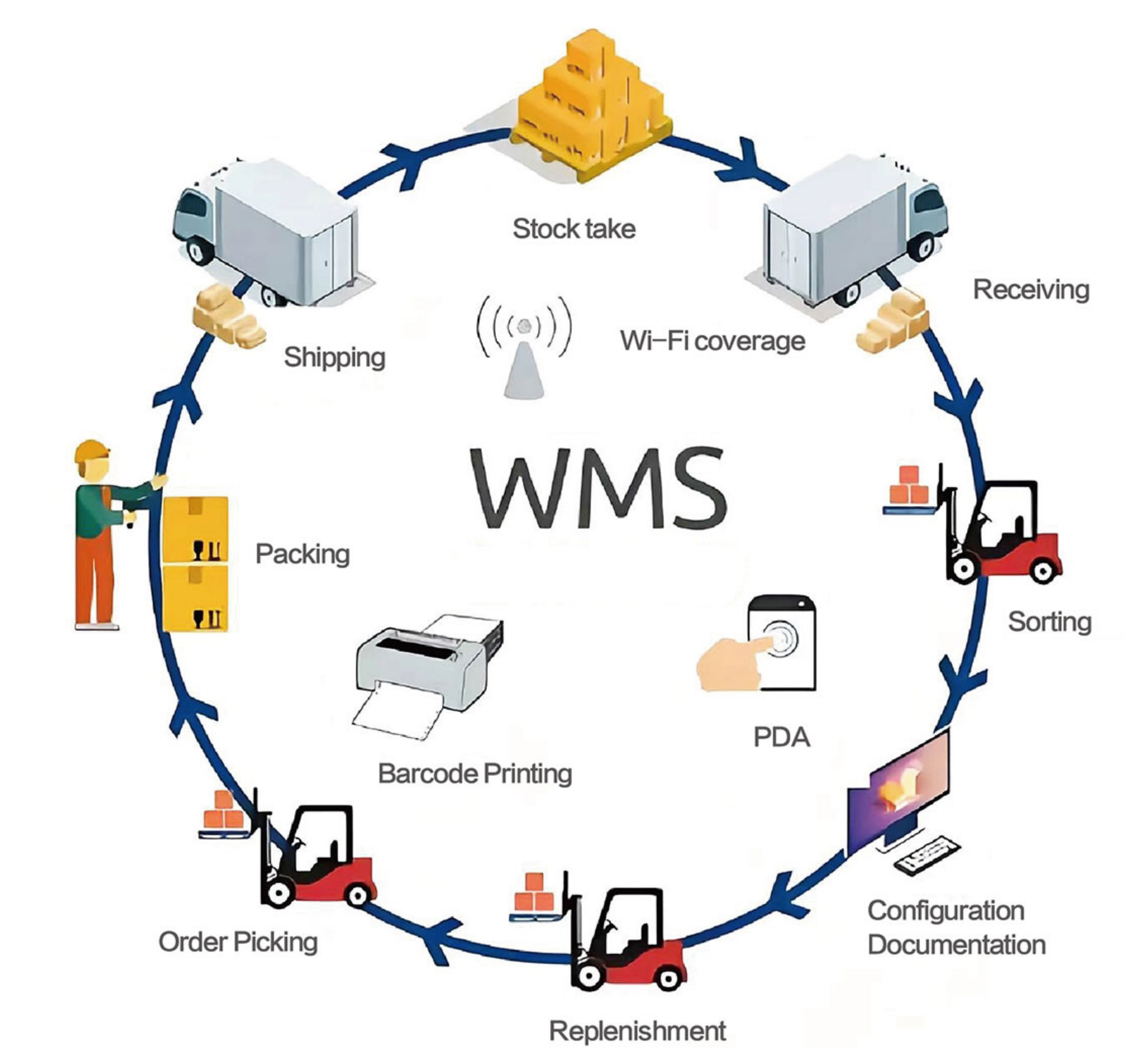
- **Basic data:**
Raw material information, semi-finished product information, finished product information, project information, customer information, supplier information, and report analysis;
- **Document management:**
Warehouse Entry, Warehouse Exit, Return Order, Picking Order;
- **Inspection management:**
Incoming inspection, inspection plan, inspection method, inspection rules, scheduled tasks;
- **Label Center:**
Create labels, label rules, label splitting, label merging, and label printing;
- **Inventory management:**
Inventory task, inventory report, inventory discrepancy record, inventory operation;
- **Report:**
Inventory report, inbound and outbound records, on-shelf and off-shelf records, warehousing records, warehouse inventory analysis;
- **PDA:**
Putting on and taking off shelves, inbound and outbound, inventory checking, incoming inspection, record inquiry;
- **Warehouse management:**
Warehouse information, storage location information, material inventory, material details, synchronize with ERP;
- **System interaction:**
ERP, MES, CRM, SCM, PLM, automated warehouse control system.

Features

- | | |
|---|--|
| Efficient data processing capability | Accurate report analysis capability |
| Rapid response and decision support | Multi-dimensional report |
| Real-time updating and accurate recording | Intuitively display report content |
| Flexible job process configuration | Optimized operational efficiency |
| High flexibility | Intelligent dispatching |
| Custom function | Automation equipment integration |
| Intelligent inventory management | Excellent scalability and integrability |
| Optimization of intelligent algorithms | The design is concise and clear |
| Real-time monitoring and early warning | Reduce learning costs and operational difficulty |

Customer Case

The wire harness division of a well-known enterprise has successfully developed a smart factory solution by introducing the WMS warehouse system. The system is integrated with MES, automated warehouse, and ERP systems, significantly enhancing warehouse efficiency and accuracy. At the same time, more than ten warehouse reports and dashboards have been developed to achieve real-time monitoring of warehouse data and material inventory analysis, facilitating decision optimization. Through multiple platforms including client-side, web-side, and mobile-side. Through end-to-end collaborative operations, the enterprise has achieved full-process digital management, significantly enhancing operational efficiency and flexibility, and setting a benchmark for the industry's intelligent transformation.



QFYF-1000 AGV



Introduction

QFYF-1000 AGV is one of the leading domestic series of latent mobile robots characterized by lifting methods, and it boasts industry-leading technology in terms of motion performance and safety protection Quality advantage helps customers create a safer and more efficient working environment, and build more cost-effective productivity. We provide flexible and practical solutions for customers to build smart factories and intelligent logistic solutions, leading logistics transformation with wisdom.

Features

- **Autonomous positioning and navigation:**
Precise positioning is achieved through the use of technologies such as inertial navigation, laser SLAM navigation, and texture -based navigation;
- **Flexible motion control:**
Utilizing dual-wheel differential drive, it supports motion control including forward, backward, and rotation, ensuring a smooth and compliant movement process;
- **Intelligent power management:**
Supports multi-level battery threshold control, automatically charges when battery level is low, and automatically returns to work after charging is complete;
- **Multiple safety protections:**
Front-mounted laser obstacle avoidance, with an installation height of 188mm, an opening angle of 260° , and a maximum detection range of 25m, as well as pneumatic collision detection, emergency stop buttons, and other multi-level safety protections, ensuring safe and reliable motion control;
- **Large cargo handling:**
Support lifting, handling, rotating, and lowering of 1000kg of cargo;
- **Equipment status indication:**
Support touch screen, sound and light alarm to indicate device status;
- **Wireless network communication:**
Support WIFI network communication and seamless roaming, ensuring unobstructed operation within the network coverage area.

Specifications

Type	QFYF-1000	Power Supply	48v
Rotating Diameter	1200mm	Battery Capacity	40Ah
Lifting Height	60mm	Number of Charging Cycles	fully charge and discharge 1500 times
Load Capacity	1000kg	Working Time	8h
Running Speed	1.8m/s	Charging Duration	≤1.5h
Acceleration	0.6m/s²	After Completing Discharging	
Orientation Accuracy	± 1°	Overall Dimensions	L 1150 × W820 × H256mm
Stopping Accuracy	± 10mm	Weight	185kg

HGYF-35000 INTELLIGENT STACKABLE CONTAINER

Introduction

The HGYF-35000 intelligent stackable container features a modular design, fully utilizing space in the vertical direction. It can save space, facilitate quick access to containers, enhance work efficiency, reduce risks, improve inventory management, and ensure greater safety for goods.

Features

- **Accessibility:**
Up to 120 pallets per hour;
Lowest energy consumption, automatic weighing, flexible and variable material height on the tray, and the ability to mix trays with different loads;
The maximum number of access ports is 3, which can be located on the same side on the ground. The types of access ports include forward, loop, right-angle turn, pause, and permanent stop.
- **Navigation mode:**
Built-in access port or external access port, and single-layer tray or double-layer tray.
- **Charging method:**
Manual charging or quick battery replacement.
- **Safety protection:**
Laser radar obstacle avoidance, pre-plasticized panel, good sealing, load-bearing structure made of galvanized steel plate, steel wire belt drive, and a lift guide system with 6 positioning wheels on each side.
- **Operating environment and user interface:**
Indoor leveling site, 10.4-inch touch screen industrial control console (Copilot).

Specifications

Type	HGYF-35000
Height Increment	200mm
Adjustment Range of Pallet Storage	25mm
Pallet Width	1500mm to 4100mm
Pallet Depth	654mm ro 857mm
Load Capacity	35000kg to 90000kg, depending on the equipment model and configuration
Maximum Height of Stored Materials	695mm(bay S) / 895mm(bay M) / 1295mm(bay XL)
Number of Stations	21+21pieces
Power Supply	DC24V
Battery Capacity	20Ah
Charging Time	7~8h
Working Time	20h
Overall Dimensions	3300mm to 16100mm



SJYF-100 VISION AGV

Introduction

The SJYF-100 Vision AGV that follows workshop floor lines in pure-yellow or yellow-and-black patterns. It features rapid deployment, simple operation, stable running, easy installation, no need for parameter setting or dispatching system. It provides flexible and practical industry solutions for customers to build smart factories and intelligent logistics systems.

Features

● **Navigation:**

Visual guidance, utilizing pure yellow and yellow-black lines, coupled with high-precision measurement lidar, achieves a minimum turning diameter of 120cm and a minimum station spacing of 20cm;

● **Operational capability:**

Upper and lower dual-layer loading platforms, with functions including forward movement, circular movement, 90° right-angle turning, pause, and permanent stop;

● **Equipment status indication:**

Start button, emergency stop button, automatic button, touch screen settings;

● **Charging method**

Manual charging or quick battery replacement;

● **Safety protection**

Lidar obstacle avoidance, with an obstacle avoidance distance of 0.3~0.5m and an obstacle avoidance angle of 140° ;

● **Operating site**

Level the indoor floor.

Specifications

Type	SJYF-100
Load Capacity	100kg
Running Speed	0.2~0.7m/s
Number of Stations	21+21pieces
Power Supply	DC24V
Battery Capacity	20Ah
Charging Time	7~8h
Working Time	20h
Overall Dimensions	L700×W460×H240/630mm H refers to the height of the tabletop
Weight	(single layer) 32kg / (double layer) 39kg



• **APTIV** •

APTIV Packard Electric system

LEONI

LEONI Electrical Systems

LEAR
CORPORATION

LEAR Corporation

Amphenol

Amphenol Corporation

GENTHERM

Gentherm Automotive SystemLtd.

JAH

Shang Hai Jinting Automobile Harness Ltd.

BOSCH

Bosch Automotive Products Co.,Ltd

SUMITOMO ELECTRIC

SUMITOMO ELECTRIC

F

FujiKura

BizLink

BizLink Group

GreatWall

GreatWall Automobile Wiring Harness

YAZAKI-CORPORATION

YAZAKI-CORPORATION

Continental

Continental Automotive Co.,Ltd.

CBW

Changchun Bulb Wire Co., Ltd.

YUTONG

Zhengzhou Yutong Group Co., Ltd.

Coroplast

Coroplast Harness TechnologyCo.,Ltd

LUXSHAREICT

Luxshare Precision Industry Co., Ltd

PKC GROUP

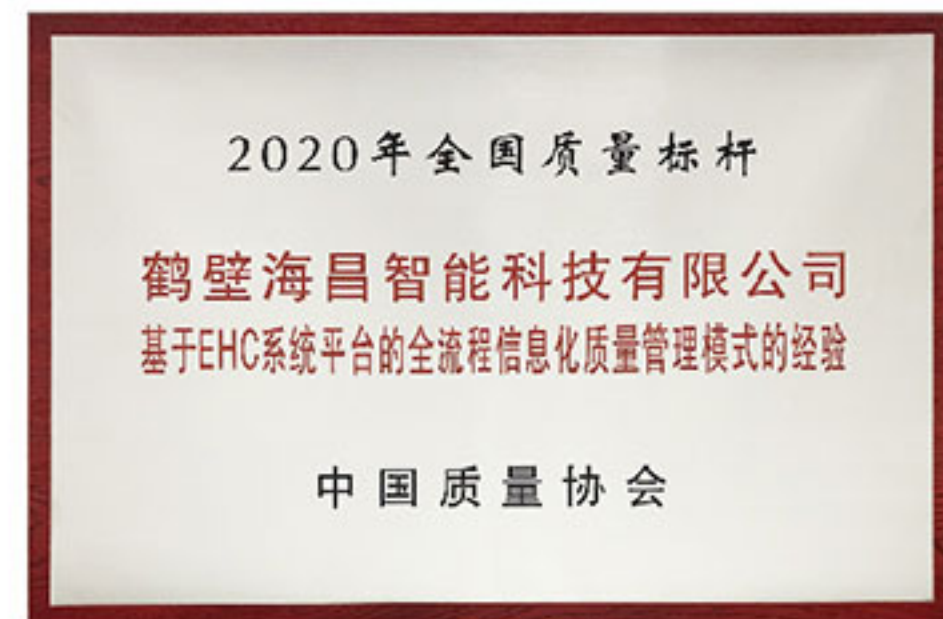
PKC Group

中航光电 JONHON

Jonhon Optoelectronic Technology Co., Ltd

BYD

BYD Co., Ltd



2020 National Quality Benchmark



May 1st Labor Medal



National Specialized and New "Small Giant" Enterprise



National High-tech Enterprise



National Intellectual Property Advantage Enterprise



Post-doctoral Sub station



Digital Service Provider for SMEs in Henan Province



Single - item Champion in Henan Province's Manufacturing Industry



Science and Technology Progress Award in Henan Province



National Torch Plan Industrialization Project



TÜV ISO 14001:2015 Certificate



CE Certification



TÜV ISO 9001:2015 Quality Certificate



Certificate of addition

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