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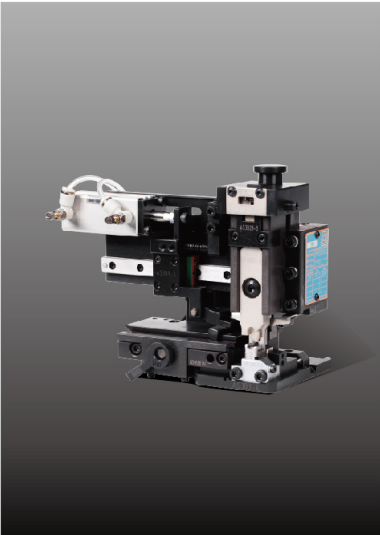
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HACINT INTELLIGENCE TECHNOLOGY CO., LTD    PRODUCT CATALOG

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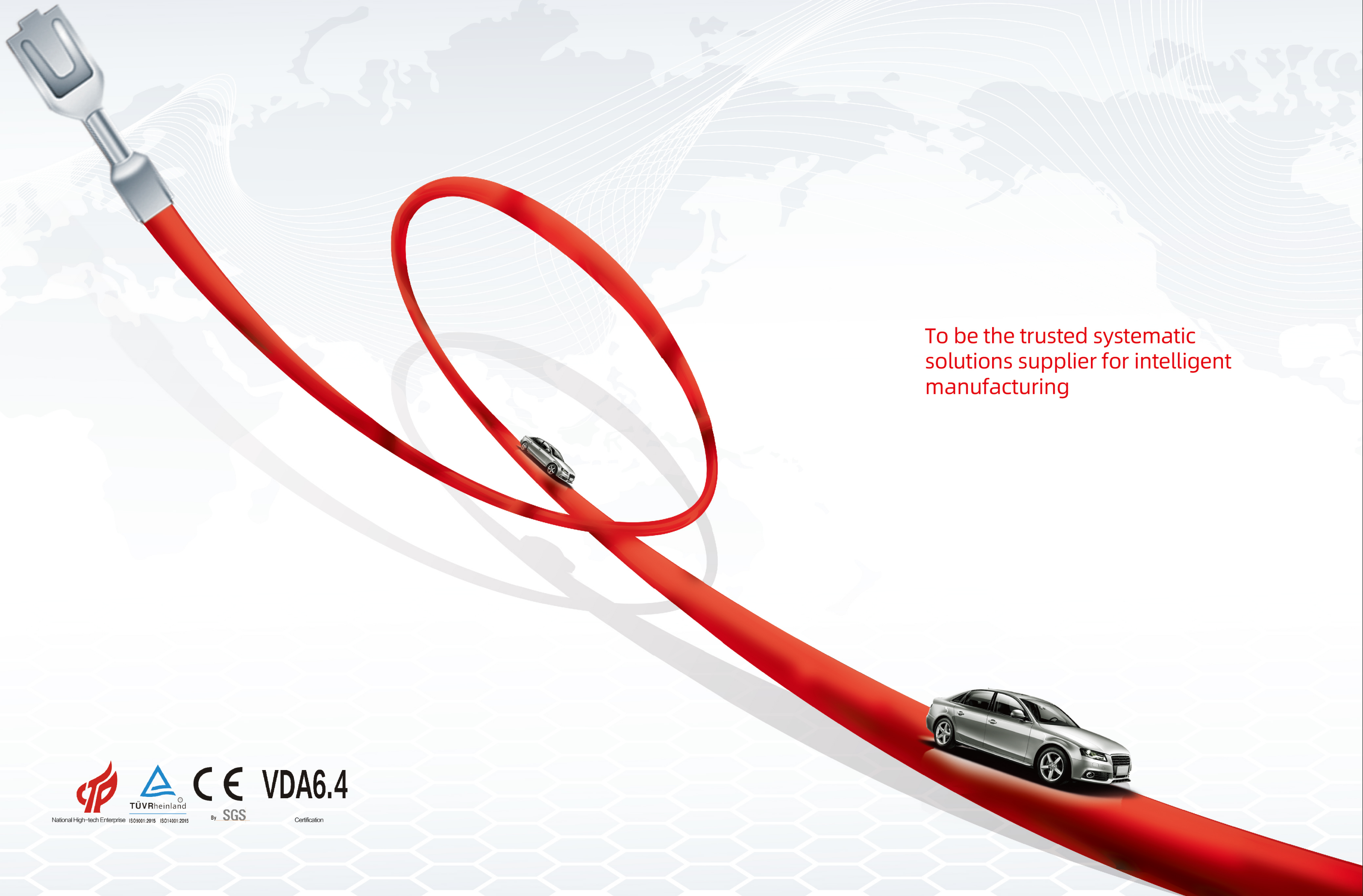
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To be the trusted systematic  
solutions supplier for intelligent  
manufacturing



National High-tech Enterprise



ISO 9001:2015 ISO 14001:2015



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: crimping applicator series, harness equipment series, harness test series, software series, intelligent equipment series and equipment of other industry, which are widely used in automotive, appliances, 5G, 3C, medical and health care, electrical tool, Photovoltaic industry and semiconductor industry.

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 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. 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 customer 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!



Dongguan Haihong : R&D center in South China



Kunshan Haihong : R&D center in East China



Henan Haihong : Software Service



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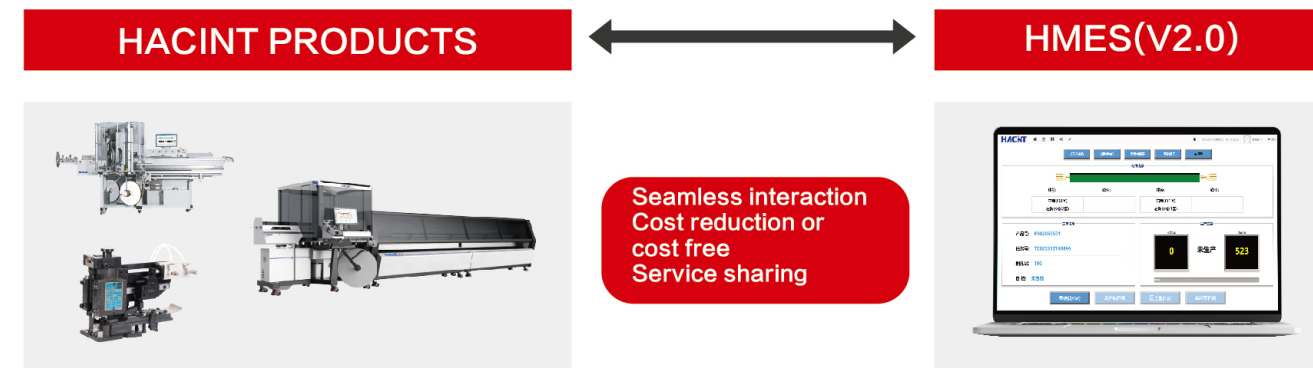
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## HMES INTELLIGEN MANUFACTURING EXECUTION SYSTEM

### Introduction

With more than 30 years of equipment development and manufacturing experience, according to the characteristics and problems of “wire harness, injection molding, machining, stamping, cable and electronics” production management, we have successfully developed HMES Haihong Intelligent Manufacturing Execution System. It aims to provide customers with integrated information solutions. Its functions, such as the process data input, equipment data interaction, real-time recording, electronic Kanban display, information system integration, not only greatly improve the production efficiency and information management level, but also ensures the production and quality two-way traceability



### Applied Industries



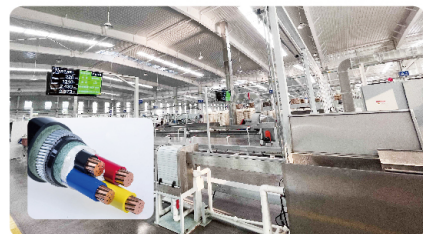
Wire Harness



Injection Molding



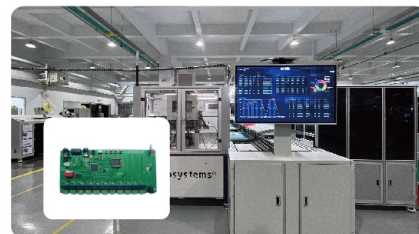
Stamping



Cables



Machining



Electronics

### Function

#### Equipment Management

Equipment ledger, spot inspection and maintenance, data acquisition

#### Applicator Management

Storage record, maintenance reminder applicator account

#### Process Management

Process BOM, process procedure, process parameter

#### Production Management

Order scheduling, task assignment, progress monitoring

#### Andon Management

Problem feedback, upgrade reminder, statistical analysis

#### Quality Control

Inspection items, inspection records, repair processing

#### Integrated Management

ERP integration, WMS integration, equipment integration

#### Report Management

Production report, exception report, quality inspection report

### Characteristics

#### Intelligent production scheduling

Process balance Resource optimization Lean manufacturing

#### System integration

Real-time communication Module Fusion Data sharing

#### Traceability of the full process

Raw material traceability Product traceability Quality traceability

#### Automatic data acquisition

Real time acquisition Status monitoring Data transparency

#### Multi-end synergy

Rapid expansion Efficient collaboration Simple operation

#### Report Visualization

Visual display Multidimensional analysis Status interaction

### Customer case



Provide intelligent solutions for a well-known wiring harness enterprise

Connect to the data of more than 100 automatic crimping machines and test tables

More than 20 pcs of production, quality reports and kanban have been developed

Successfully operate by the desktop app, web, mobile app together



HBQ-802E FULLY AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-802E fully automatic crimping machine, equipped with multi-station platform, special drive system, high speed control technology and high rigidity drive mechanism, is the excellent machine of high-level processing accuracy. Software by computer system, friendly operating interface, and optional seals loading module and digital crimping module, meet the various needs of automobile & electronic wiring harness processing. As a domestic machine that has been popular and reliable in the market for a long time, the cost-effective advantage of HBQ-802E makes the wire processing more economic.

Function



Other functions

Cut to length Half strip Full strip Crimp to crimp Seal loading Inkjet marking Crimping height measuring  
Pull force testing terminal strip cutting paper winder pneumatic delay feed automatic collection crimped wires  
defectives treating(Matching CFM) Networking HMES

Features

- The machine takes the commercial gray as the basic color, the overall structure is simple and generous;
- A wall conveyor belt can prevent the belt deviating, at the same time, also can help for preventing the wires falling;
- The cut-off and stripping can be one-step, time-saving and high efficiency;
- First and rear ends adopt the rotating arm structure, higher efficiency;
- Flexibility feeding system for high accuracy of feeding length and protecting wires from damage;
- The Crimping Force Monitor(CFM) loaded can monitor product quality in real time, and can alarm and cut off (this function is optional) automatically if degraded products come up;
- Friendly PC interface and more direct-viewing graph pictures enhance the visibility and operation.

Specifications

Type	HBQ-802E
Cutting Length	60~20000mm
Cutting Accuracy	L<500mm : ± 1mm ; L > 500mm : ± (1mm+0.2%*L )
Stripping Length	0.1~18mm, side 1; 0.1~15mm, side 2
Wire Cross Sections	0.22~3mm²(AWG24~AWG12)
Wire Feeding Speed	8.0 m/s(max)
Noise Level	<75dB(Without crimping)
Air Supply	0.5~0.6MPa
Air Consumption	5.5~10m³/h
Temperature	-5~40℃
Crimp Force	20kN
Stoke	30mm ( 40mm Optional )
Power Supply	AC380V/50Hz/3kW
Dimensions	L3720 × W1230 × H1875mm ( Including 2m wire deposit unit )
Weight	1000kg
Optional Accessories	Seal loading module HBQ-804-03A Wire Prefeeder DPS servo crimping module Safety cover Double wires feeding straightener Double terminal plate rotation module Visual module for crimping Wire deposit unit: 4m 6m or 8m

★ 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-804 FULLY AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-804 Fully Automatic Crimping Machine, with five platforms, special driver system, high speed control technology and high rigidity driver mechanism, is the excellent machine of high-level processing accuracy. Operation controlled by computer system, friendly operating interface, optional Seals Loading, and optional digital crimping workstation, meet the various needs of automobile & electronic wire harness process.

Function



Other functions

Cut to length Half strip Full strip Crimp to crimp Seal loading Inkjet marking Crimping height measuring  
Pull force testing terminal image detection terminal strip cutting paper winder pneumatic delay feed  
automatic collection crimped wires defectives treating(Matching CFM) Networking HIMES

Features

- A wall conveyor belt can prevent the belt deviating, and also can help for preventing the wires falling;
- Cutting and stripping can be operated simultaneously ;
- Front and rear rotation swivel arms for higher efficiency;
- Flexibility feeding system for high accuracy of feeding length and protecting wires from damage;
- Equipped with CFM to monitor the product quality in real time,;
- Friendly PC interface and more direct-viewing graph pictures enhance the visibility and operation.

Specifications

Type	HBQ-804
Cutting Length	60~20000mm
Cutting Accuracy	L<500mm : ± 1mm ; L > 500mm : ± (1mm+0.2% *L)
Stripping Length	0.1~18mm, side 1; 0.1~15mm, side 2
Wire Cross Sections	0.22~5mm² (AWG24~AWG10)
Wire Feeding Speed	12m/s(max)
Noise Level	<75dB
Air Supply	0.5~0.6MPa
Air Consumption	6.5~10m³/h
Temperature	-5~+40℃
Crimp Force	20kN
Stoke	30mm ( 40mm Optional )
Power Supply	3x380V /50Hz /3kW
Dimensions	L3850 × W1550 × H1950mm ( Including 2m wire deposit unit )
Weight	1400kg
Optional Accessories	Wire Prefeeder Seal loading module DPS servo crimping module Frequency conversion crimping machine Shut height measurement module Terminal Pull Force detection module Terminal image detection module Safety cover Wire deposit unit: 4m 6m or 8m Double wires feeding straightener Terminal plate rotation module

★ Some special hard and solid wire may not be able to process, even if they are shown in the cross section area. If you have any questions, we are glad to try samples for you.

HBQ-804H FULLY AUTOMATIC CRIMPING MACHINE



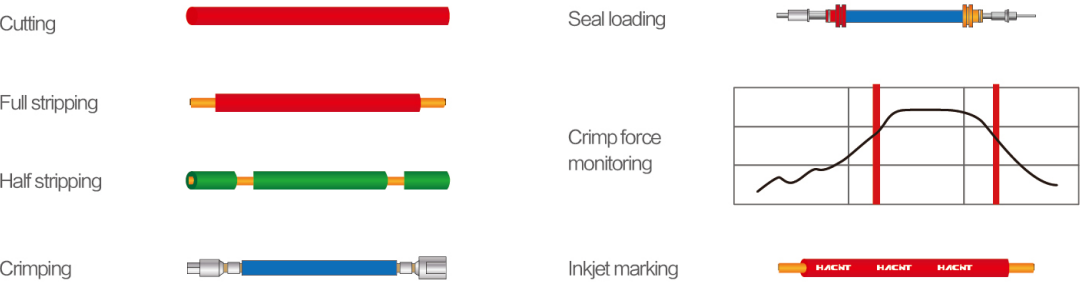
Introduction

HBQ-804H Automatic Crimping Machine, which is automatic processing equipment for wires of large square diameter (5.0~16mm²), can meet the processing needs of new energy wiring harness.

The machine adopts open platform of four stations, equipped with a unique driving system with high-speed control and high rigid driving mechanism. It is an excellent machine with high level processing capacity and high machining accuracy.

With computer control operating system, user-friendly operation interface, it is easy to operate.

Function



Other functions

Cut to length   Half strip   Full strip   Crimp to crimp   Seal loading   Inkjet marking   Crimping height measuring

Terminal strip cutting   Paper winder   Pneumatic delay feed   Automatic collection of crimped wires

Defectives treating(CFM optional)   Networking   HMES

Features

- The machine takes the commercial gray as the basis color, the overall structure is simple and generous;
- A wall conveyor belt can prevent the belt deviating, at the same time, also can help for preventing the wires falling;
- Dual work stations for stripping special length;
- Front and rear rotation swivel arms for higher efficiency;
- Flexibility feeding system for high accuracy of feeding length and protecting wires from damage;
- The Crimping Force Monitor (CFM) loaded can monitor product quality in real time, and can alarm and cut off (this function is optional) automatically if degraded products come up;
- Friendly PC interface and more direct-viewing graph pictures enhance the visibility and operation.

Specifications

Type	HBQ-804H
Cutting Length	60~20000mm
Cutting Accuracy	L<500mm : ± 1mm; L > 500mm : ± (1mm +0.2% *L)
Stripping Length	0.1~18mm, side 1; 0.1~15mm, side 2
Wire Cross Sections	5.0~16mm² ( AWG11-AWG5 )
Wire Feeding Speed	3m/s
Noise Level	<75dB
Air Supply	0.5~0.6MPa
Air Consumption	7.5m³/h
Temperature	-5~+40℃
Crimp Force	80kN
Stoke	40mm Optional
Power Supply	3 × 380V/50Hz
Dimensions	L3950 × W1750 × H2000mm （ Including 2m wire deposit unit ）
Weight	1600kg
Optional Accessories	Seal loading module Shut height measurement module Safety cover Wire deposit unit: 4m 6m or 8m Terminal plate Holder rotation module

★ Some special hard and solid wire may not be able to process, even if they are shown in the cross section area. If you have any questions, we are glad to try samples for you.



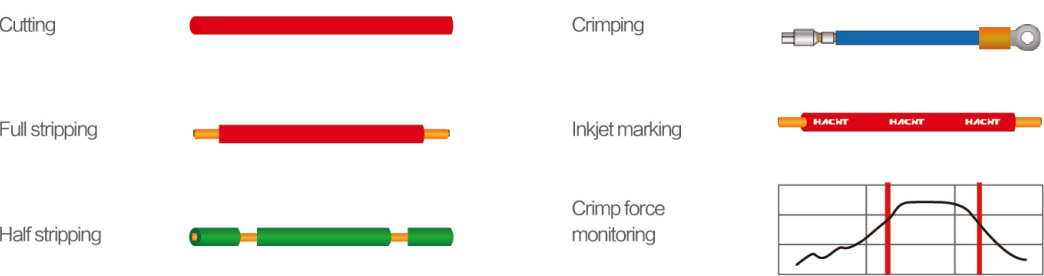
HBQ-804P FULLY AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-804P Fully automatic crimping machine is specially designed for crimping tubular terminals and used for the distribution equipment industry and have the functions like automatic cutting, tubing, inkjet printing and crimping. With unique drive system and multi-station open platform, HBQ-804P perfectly solves the issues of the harness production for distribution cabinet like the cumbersome processing and low efficiency. It is an excellent model with high level of processing capacity and high processing accuracy.

Function



Other functions

Cut to length single/double end half stripping single/double end stripping single end crimping Seal loading Inkjet marking  
Crimping height measuring Pull force testing Terminal strip cutting Paper winder Pneumatic delay feed  
Automatic collection of crimped wires Defectives treating(CFM optional) loose terminal crimping, etc

Features

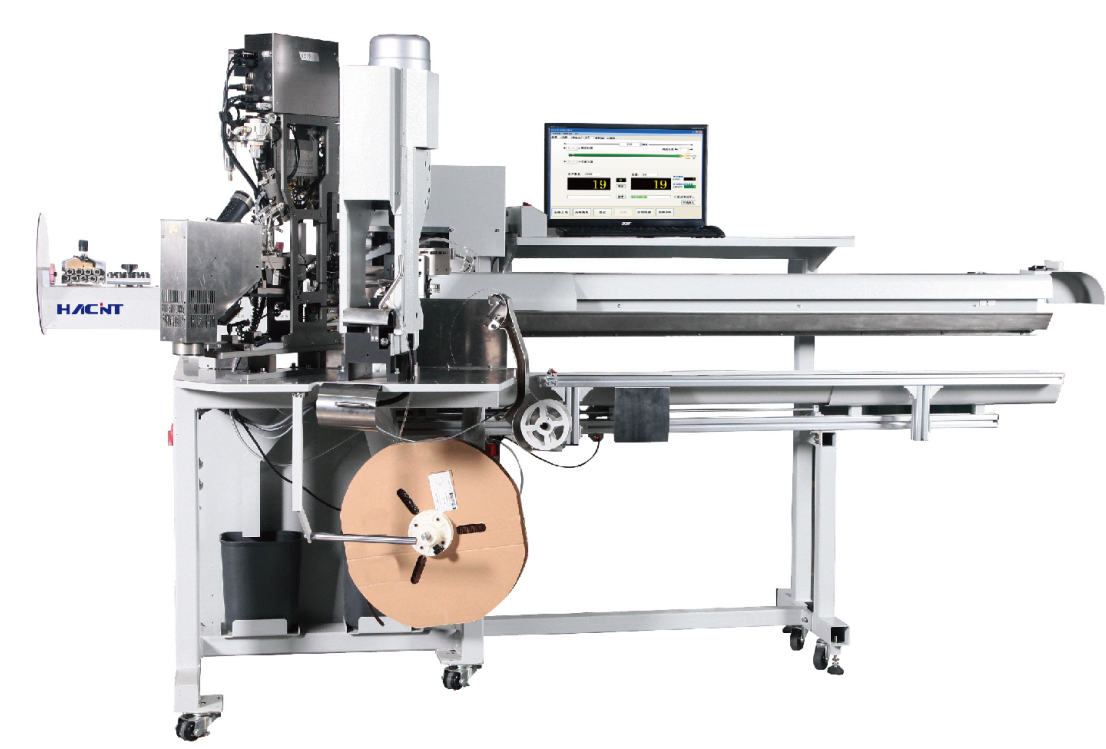
- **Labour-saving:** The functions of automatic cutting, tubing, inkjet printing and crimping all in one machine which replace the laborious work process;
- **High level:** Based on the platform of HBQ-804, the machine adopts high-speed control technology and high-rigidity drive mechanism;
- **High quality:** automatic detection of wire feeding, cutting and crimping in all directions;
- **Good expandability:** Open platform for different terminal types and chain terminals;
- **Humanized:** Humanized layout, easy to operate and understand.

Specifications

Type	HBQ-804P
Cutting Length	80~20000mm
Cutting Accuracy	L<500mm : ± 1mm; L > 500mm : ± (1mm+0.2% *L)
Stripping Length	0.1~18mm, side1 0.1~15mm, side2
Wire Cross Sections	0.5~6.0mm²
Wire Feeding Speed	10m/s(max)
Noise Level	<75dB
Air Supply	0.5~0.6MPa
Temperature	-5~+40℃
Crimp Force	22kN
Stoke	30mm (40mm Optional)
Power Supply	AC380V /50Hz/3kW
Dimensions	L4980×W1700×H2183mm （Including 2m wire deposit unit）
Weight	700kg
Optional Accessories	Wire Prefeeder Dual wires feeding Safety cover Terminal Pull Force detection module Wire deposit unit: 4m 6m or 8m

★ Some special hard and solid wire may not be able to process, even if they are shown in the cross section area. If you have any questions, we are glad to try samples for you.

HBQ-805 FULLY AUTOMATIC CRIMPING MACHINE



Introduction

HBQ-805 is an economical fully automatic crimping machine for single-end terminal crimping. It can complete single-end cutting, stripping, sealing, crimping and inkjet marking in one process. It provides an economical and efficient solution for single-ended terminal crimping, increasing efficiency and reducing costs.

Function



Other functions

Cut to length single/double end half stripping single/double end stripping single end crimping Seal loading Inkjet marking  
Crimping height measuring Pull force testing Terminal strip cutting Paper winder Pneumatic delay feed  
Automatic collection of crimped wires Defectives treating(CFM optional) loose terminal crimping, etc

Features

- Uniform color, simple and generous structure;
- The conveyor belt, anti-slip design, will not run off and not make the wire slip;
- Wire cutting and stripping are efficient and time-saving;
- The rear end adopts a rotating swing arm structure to improve efficiency;
- The embedded pressure management device for real-time monitoring of product quality;
- Friendly human-computer interface for improved visibility and operability;
- High cost-effective and economical.

Specifications

Type	HBQ-805
Cutting Length	60~10000mm
Cutting Accuracy	L<500mm : ± 1mm; L > 500mm : ± (1mm+0.2% *L)
Stripping Length	0.1~18mm
Wire Cross Sections	0.35~3.0mm²
Wire Feeding Speed	6m/s(max)
Noise Level	<75dB
Air Supply	0.5~0.6MPa
Temperature	-5~40℃
Crimp Force	20kN
Stoke	30mm (40mm Optional)
Power Supply	AC380V /50Hz/3kW
Dimensions	L3200 × W1200 × H1800mm （Including 2m wire deposit unit）
Weight	1000kg
Optional Accessories	Seal loading module Wire Prefeeder DPS servo crimping module Safety cover Visual module for crimping Inkjet marking Loose terminal crimping machine Wire deposit unit: 4m 6m or 8m

★ Some special hard and solid wire may not be able to process, even if they are shown in the cross section area. If you have any questions, we are glad to try samples for you.



HBQ-G501 TIN DIPPING MACHINE

Introduction

HBQ-G501 tin dipping machine (second generation) is a kind of automatic wire harness processing equipment with one end crimping terminal and one end dipping tin. With functions of terminal crimping, seal loading (optional), terminal CCD appearance detection (optional), twisting wire, tin-dipping, etc.

The machine adopts modular design, high efficiency and easy debugging.

The equipment is equipped with terminal press detection, stripping CCD detection (optional), terminal appearance CCD detection (optional), NG cut off anti-stay (optional), micrometer (optional), tension meter (optional) to prevent defective products from flowing out. The equipment can be connected to MES, and the key componentssupplied by well-known brands.

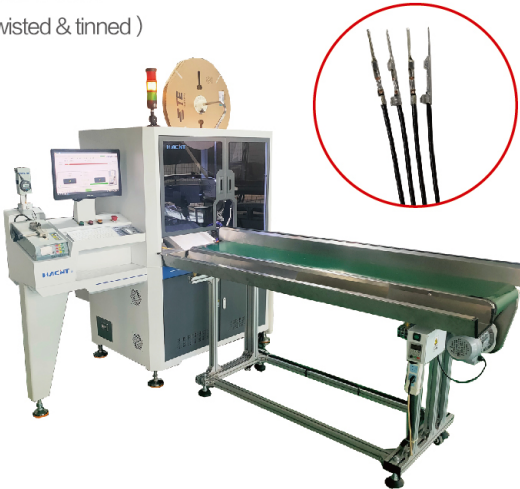
Function

The whole machine adopts servo system and linear motion precision grinding screw guide and compact structure. The fastest speed can be up to 3600pcs/h;

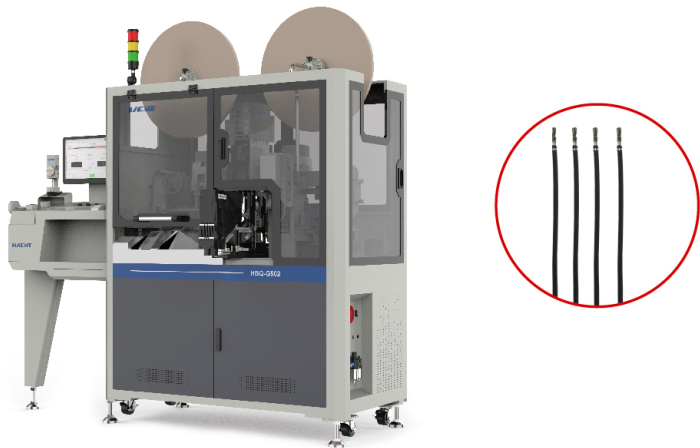
- Applicable wire range (0.04~2mm²);
- Stripping system adopts double station design, front and back stripping blade edge is convenient for debugging;
- CFM can monitor product quality in real time, and automatically alarm and cut bad products;
- Flux automatic reflux system to ensure the stability of dipping tin, reduce manual operation and improve operation rate;
- Friendly PC interface, industrial computer control, easy to connect MES;
- The machine structure is simple and generous with ergonomic design;
- With flexible wire feeding system to protect wires from damage and ensure the accuracy of wire feeding length.

Specifications

Function	Terminal crimping, crimp force detection, seal loading, terminal appearance CCD detection, twist wire, tin dipping
Wire Size	0.04~2mm²
Wire Length	15~9999mm
Efficiency of Productivity	L=100 3600pcs/h ( Front terminal crimping, rear tinned ) L=3200pcs/h (Front terminal crimping, rear twisted & tinned )
Crimp Force	Servo 2T
Stripping Length	A: 1~6mm; B:1~15mm
Stripping Accuracy	±0.15
Length Accuracy	± ( 0.2%*L+1 ) mm
Tin Sticking Length	1~15mm
Crimping Applicator	European/Japanese 30mm/40mm
Dimension	L900 × W1100 × H1400mm
Weight	500kg



HBQ-G502 AUTOMATIC MIDDLE STRIPPING  
DOUBLE HEAD CRIMPING MACHINE



Introduction

HBQ-G502 is a kind of automatic double head terminal wiring harness processing machine functions include terminal crimping, middle stripping function, wear waterproof plug (optional), terminal CCD appearance detection (optional), etc. The whole machine layout adopts modular design, high efficiency and convenient debugging, the equipment is equipped with terminal pressure detection, terminal CCD appearance detection (optional), to prevent the outflow of inferior products. Key components are imported or well-known domestic brands to ensure the reliability of the equipment.

HBQ-G502 is consist of 1 set of main machine (including stripping function), 1 set of wire feeder, wire receiver (customized according to customer length). The main machine can process 40mm~9999mm long wire, processing 0.1~2mm² wire, the efficiency of the main machine can reach 3400~3800pcs/h (only double head crimping, do not open the stripping), the pay-off machine can put a maximum of 400 rolls of wire (drum) incoming material, Equipped with pre-feed wire function, can prevent the occurrence of wire length, optional tension meter, digital micrometer.

Specifications

Function	Terminal crimping, wire stripping, pressure detection, waterproof plug (optional), terminal appearance CCD detection (optional)
Wire Size	0.1~2mm²
Processing Length	40~9999mm, middle stripping: 150~9999mm
Median Stripping Length	0~25mm ( To change the length, replace the corresponding module )
Capacity Efficiency	L=100 3400~3800pcs/h (No center stripping, double head crimping ) 1200pcs/h (middle stripping double head crimping ) 800pcs/h(middle stripping double head crimping, CCD detection )
Crimp Force	Servo 2T
Stripping Length	A: 0~8mm; B:0~8mm
Stripping Accuracy	≤300time ± 0.5mm, ≥300time ± (0.2%*L+1 ) mm
Reject Ratio	3≤‰ ( Double-head crimping ) ≤5‰ (middle stripping double head crimping )
Crimping Applicator	European/Japanese
Dimension	W1200 × D1000 × H1800 580kg



## FSA-001E SEAL LOADING MODULE

### Introduction

FSA-001E Seal Loading Module provides strong support for automatic wire processing system, Which perfectly match to HBQ-802/HBQ-804 Fully Automatic Crimping Machine, insert seals to the end of stripped wires. With functions of automatic feeding, filtering, expanding and inserting, applicable to all kinds of seals. Precise positioning system to ensure the accurate processing, mini structure and reliable control, make its become the preferred accessory of HACINT automatic machine.

### Features

- The ultra-thin body design, reduce the space occupied by the automaton;
- The multiple sensor detection to ensure the correctness of penetration, reduce the waste;
- The modular design for convenient replacement;
- Perfect match with all main automatic crimping machines, with networked function.

### Specifications

Wire Outer Diameter	1~5mm
Seal Size	Height & Diameter <17mm
Processing Time	0.17s
Cycle Time	0.9s
Power Supply	100~220VAC, 50Hz, 200W
Air Supply	0.55~0.7kPa
Dimensions	L1000 × W800 × H350mm
Weight	30kg



## HBQ-804-03A WIRE PREFEEDER

### Introduction

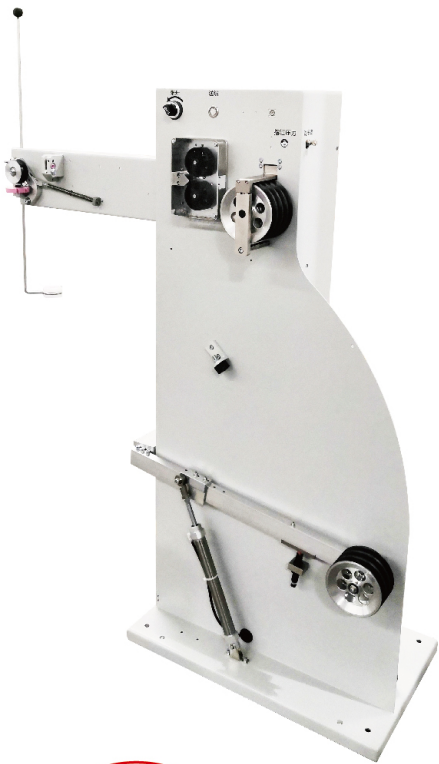
Hbq-804-03A wire prefeeder, which can smoothly convey wires to the machine and ensure efficient operation. It is able to handle wires in bulk, in barrel and other kinds of packaging wires. The device can speed up and down accordingly with machine, which can prevent the wire knotted.

### Features

- Controlled by servo motor, variable speed control system, feeding forward smoothly;
- With swing arm, more effective to straighten and store wire;
- With wire knot alarm, effectively protect wires;
- As a independent accessory, perfectly match to all leading brand machines

### Specifications

Power Supply	AC220V/50Hz
Power	400W
Feeding Speed	6m/s
Dimensions	L1349 × W385 × H1327mm
Weight	55kg





CVS-A30 VISUAL INSPECTION SYSTEM

Introduction

The terminal detection system is a comprehensive detection system that integrates the detection of stripping, sealing defect and crimping defect. It can be customized according to customer testing needs, separate stripping, sealing or crimping detection;

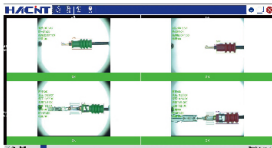
The stripping and sealing detection can detect the sealing and stripping defects. The crimping detection can detect the appearance defects of the crimped terminals. The detection system can detect the crimping defects that cannot be detected by the pressure detection device. In the swing arm stroke of the mechanical arm, the camera is triggered by the control system to take pictures, and the defects of stripping, sealing and crimping are detected by the AI detection algorithm. It greatly improves the accuracy of defect detection and avoids the defective products.

Features

Small size, compact structure, through the data acquisition card to transmit images in the computer for judgment, stable and reliable performance;

The interface is clear and intuitive, the operation is convenient, and the detection effect is very clear;

The AI detection algorithm is more compatible, and the conventional terminal can be directly detected without the need to set up a new detection process.



Function

**AI detection algorithm:** Through training to learn more terminal types, strengthen the detection model, detection algorithm compatibility is better, higher detection accuracy;

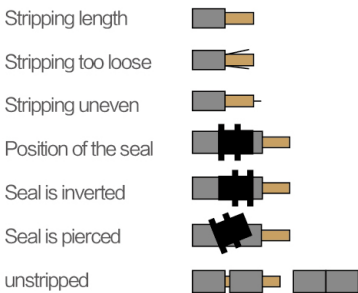
**Acquisition channel:** double-end crimping terminal image, independent acquisition and judgment, no conflict;

**Data processing:** normal images and abnormal images can be saved by setting, which is convenient for quality detection picture tracing;

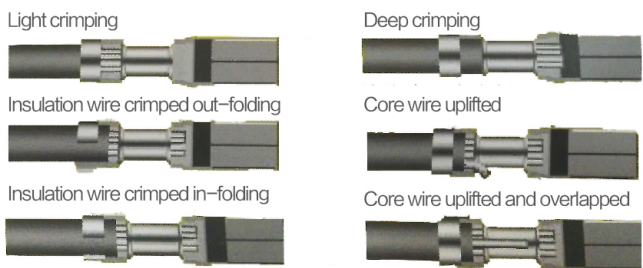
**Data communication:** Communicates with the production control logic through IO hardware, real-time is higher and more stable, Once the detection quality is abnormal, production will be stopped immediately and abnormal parts will be detected.

Detection items

Stripping detection



Crimping detection



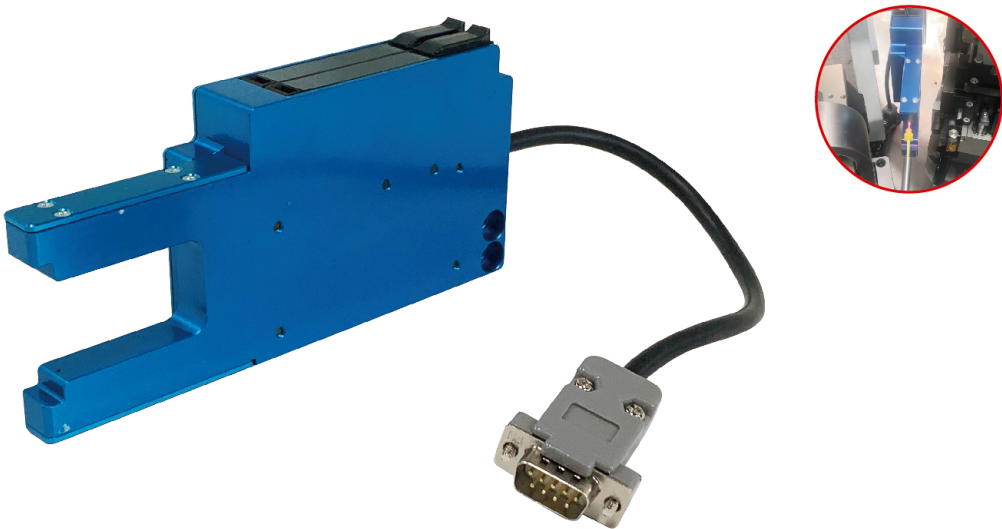
Specifications

Judgement time	<50ms	False detection rate	0.10%
Terminal passing speed	3m/s	Flash light time	<1ms
Sutter speed	1/45000s(22us)	Camera pixel	720 × 540 (0.4MP pixels)
Exposure time	0.022ms		

★ Related Products

HBQ-804 Fully Automatic Crimping Machine

HBQ-054 STRIPPING & SEALING DETECTION SYSTEM



Introduction

HBQ-054 can detect the stripping and sealing situations online. It picks out the not stripping, short copper wire completely cut, without seal and others defective products by measuring with good ones, so then it can avoid without core wire, without seals during the crimping process. It can highly reduce the defective products by working with CFM.

Features

Delicacy appearance, compact internal structure, embedded control, stable and reliable performance;

Adopts upper computer software for parameter setting, data display, data storage, data can be traced;

Input and output adopt bidirectional design, compatible with NPN and PNP;

It can support single-wire mode and double-wire mode (the minimum distance between two wires is 4mm).

Specifications

Power Supply	24VDC	Min Diameter	0.25mm²
Power	2W	Communication Interface	RS232
Frequency	80kHz	Io Interface	Two-way input & output.
Amplifier	< 60us	Dimensions	155 × 70 × 22mm



HBQ-2030JB/ X4030JB/8030J CRIMPING MACHINE

Introduction

- **Precise**: Crimping height can be adjusted continuously ,with tolearance accurately to 0.03mm;
- **Quick** : Match to all kinds of applicators , quick and convenient change;
- **Stable**: Simple structure, stable & reliable operation;
- **Economical** : Do work at crimp instant only and save energy;
- **Quiet** : Low noise, suitable for home basis production;
- **Safe** : Special over-load protection, operate in safety.



Specifications

Type	HBQ-2030JB	HBQ-X4030JB	HBQ-8030J
Stroke	30mm	30mm	30mm
Shut Height	119.7mm	119.7mm	119.7mm
Adjusting Range	10mm	10mm	10mm
Crimp Force	20kN	40kN	80kN
Wire Cross Sections	0~4mm²	0~8mm²	0~16mm²
Stroke Per Minute	160s.p.m ( High speed 200s.p.m )	160s.p.m	80s.p.m
Power Supply	AC220V/50Hz	AC220V/50Hz	AC380V/50Hz
Power	750W	1.5kW	3kW
Weight	L325 × W280 × H690mm	L360 × W300 × H890mm	L430 × W360 × H1030mm
Dimensions	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-2040EB/X4040EB/8040E CRIMPING MACHINE

Introduction

- **Precise**: Crimping height can be adjusted continuously, with tolearance accurately to 0.03mm;
- **Quick** : Match to all kinds of applicators , quick and convenient change;
- **Stable**: Simple structure, stable & reliable operation;
- **Economical** : Do work at crimp instant only and save energy;
- **Quiet** : Low noise, suitable for home basis production;
- **Safe** : Special over-load protection, operate in safety.



Specifications

Type	HBQ-2040EB	HBQ-X4040EB	HBQ-8040E
Stroke	40mm	40mm	40mm
Shut Height	135.78mm	135.78mm	135.78mm/192mm+10mm(stamping)
Adjusting Range	6mm	2mm	2mm
Crimp Force	20kN	40kN	80kN
Wire Cross Sections	0~4mm²	0~8mm²	0~16mm²
Stroke Per Minute	160s.p.m ( High speed 200s.p.m )	160s.p.m	80s.p.m
Power Supply	AC220V/50Hz	AC220V/50Hz	AC380V/50Hz
Power	750W	1.5kW	3kW
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-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 load machine, can crimp wires of 50mm² or even larger sizes. With safety devices, Such as safety protection, both hands button, to ensure operator safety at all times.Inching turning, reverse rotation and other functions can make the adjustment more convenient, it is the right product to replace the traditional punching. Varieties of heavy dutyapplicators can be optional accessories.

Features

- The product through frequency control according to the different needs of customers change pressing speed;
- Can realize fast slow contact pressure of constant torque;
- High crimping precision 0.05mm, no tools required for convenient operation;
- With both hands button and safety protection device is optional, always protect personal safety;
- With sound and light alarm Function, focus on the importance of safety;
- With low speed jog function, it's labor saving and convenient to adjust applicators

Specifications

Type	HBQ-P20	HBQ-P30	Stroke Per Minute	45s.p.m	25s.p.m
Crimp Force	200kN	300kN	Power Supply	AC380V/50Hz	
Stroke	50mm		Power	7.5kW	
Shut Height	202mm/197.5mm		Dimensions	L900×W1100×H1800mm	
Shut Height Adjusting Scale	15mm		Weight	900kg	

★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

CLM Battery Terminal Crimping Applicator  
HD07 Heavy Duty Crimping Applicator



HBQ-160 CRIMPING MACHINE

Introduction

HBQ-160 crimping machine is a newly developed servo crimping machine. The crimping height and crimping speed are adjustable to meet different process requirements.

Features

- **Stability:**  
Simple transmission structure for running stably;  
Adopt the keyless connection, to ensure the wear-resisting and longer service life.
- **High efficiency:**  
The crimping height is adjustable freely to realize the short changeover;  
Adjustable crimping speed to meet different requirements;  
Easy to operate with a color touch screen.
- **High quality:**  
Adopting the Servo Motor Drive Board for being more precise;  
Adjustment range of the crimping height is within ±2mm.
- **Optional modules:**  
Optional networked function is seamlessly connected to MES, which sends production data and receives feedback information;  
Optional carrier strip chopper, optional bad crimp cutter, CFM and other options.



Specifications

Type	HBQ-160J	HBQ-160E	Adjustable Crimp Height	±2mm
Pressure	30mm	40mm	Wire Cross Sections	0-6mm²
Stroke	119.7mm	135.78mm	Power Supply	AC220V 50Hz
Crimp Force	25kN		Air Supply	0.5-0.7MPa
Adjusting Scale	1.8kW		Dimensions	L1080×W590×H870mm
Cycle Time	Minimum 250ms		Weight	138kg

★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 CRIMPING MACHINE

### Introduction

HBQ-160H Multifunctional Crimping Machine is a new generation of servo crimping machine developed by Hacint. It can realize automatic adjustment of crimping height and free setting of crimping speed, so as to meet more demands of crimping process.

### Features

- **Stability**  
Simple transmission structure, stable and reliable operation;  
Keyless connection, long service lifetime.
- **High Efficiency**  
The crimping height parameter can be accessible at any time to realize quick-change;  
The crimping speed can be adjusted to meet different crimping requirements.  
10 inch industrial computer screen, beautiful interface, simple to operate.
- **High Quality**  
Unique servo motor plate drive to guarantee more accurate control  
With fine adjustment  $\pm 2\text{mm}$  for Crimping height.
- **Suitability**  
Optional networking mode, well match with MES, and can carry out various data interaction;  
Optional batching belt cutting module, CFM module.etc.



### Specifications

Type	HBQ-160HJ	HBQ-160HE	Power Supply	AC220V 50Hz
Stroke	30mm	40mm	Air Source	0.5~0.7MPa
Shut Height	119.7mm	135.78mm/200mm	Wire Cross Section	16mm <sup>2</sup>
Pressure	80kN		Adjusting Accuracy	0.01mm
Power	1.8kW		Crimp Time	3s
Cycle Time	$\geq 800\text{ms}$ (adjustable)		Dimension	L1100 × W600 × H870mm
Adjusting Scale	$\pm 2\text{mm}$		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-X4030JSI/X4040ESI/8030JSI/8040ESI NETWORK CRIMPING MACHINE

### Introduction

HBQ-X4030JSI/X4040ESI/8030JSI/8040ESI is a new generation network crimping machine developed by HACINT. It can connect with MES database and get efficient production.

### Features

- **Energy efficiency**  
Driven by frequency conversion, save electricity;  
Smooth movement, no wear, no noise;  
Overload circuit protection to ensure safe operation, avoid damage to the motor.
- **High Efficiency**  
Shut height parameters are called at any time to achieve fast mold change;  
Offline and online mode can meet different customer needs;  
One key scan code input raw material information, read database information and call out;  
Remote control production, improve production efficiency;  
Daily management of applicator, counting the times of pressing and over-limit alarm reminder.
- **High Quality**  
Resolution range  $\pm 2\text{mm}$ , precision  $\pm 0.01\text{mm}$ ;  
Servo lock brake ensures the high stability and reliability during the pressing process;  
Sensitive operation with 10inches industrial touch screen;  
Small size, small occupation. Can be placed directly on the work table.
- **Suitability**  
Optional Paper winder, carrier cutting module, pneumatic feeding module, safety cover and other accessories.



### Specifications

Type	HBQ-X4030JSI	HBQ-X4040ESI	HBQ-8030JSI	HBQ-8040ESI
Stroke	30mm	40mm	30mm	40mm
Crimp Force	40kN		80kN	
Shut Height	119.7mm	135.78mm	119.7mm	135.78mm
Wire Cross Sections	0~8mm <sup>2</sup>		0~16mm <sup>2</sup>	
Height Adjusting Range	$\pm 2\text{mm}$		$\pm 2\text{mm}$	
Stroke Per Minute	160s.p.m		80s.p.m	
Power Supply	AC220V /50Hz		AC380V/50Hz	
Power	1.5kW		3.0kW	
Dimensions	L360 × W300 × H890mm		L430 × W450 × H1030mm	
Weight	105kg		205kg	

★ 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-X4030NJSI/X4040NESI/8030NJSI/8040NESI  
NETWORK SERVO CRIMPING MACHINE

Introduction

HBQ-X4030NJSI/X4040NESI/8030NJSI/8040NESI Network Servo Crimping Machine is a new generation of semi-automatic crimping equipment developed by Hacint, which can be connected with MES database to achieve efficient production.

Features

- Smooth operation, no wear & noise;
- Servo crimping, crimping speed can be adjusted to ensure the crimping quality;
- Servo motor control height adjustment and searching;
- Fine adjustment  $\pm 5\text{mm}$ ; Accuracy  $\pm 0.01\text{mm}$ ;
- 10 inch industrial touch screen, easy to operate and can be connected to MES;
- Small size, which can be directly placed on the work table.



Specifications

Type	HBQ-X4030NJSI	HBQ-X4040NESI	HBQ-8030NJSI	HBQ-8040NESI
Power Supply	220V/50Hz			
Power	1.8kW		2kW	
Stroke	40KN		80KN	
Crimp Force	30mm	40mm	30mm	40mm
Shut Height	119.7mm	135.78mm	119.7mm	135.78mm
Wire Cross Section	0~8mm²		0~16mm²	
Terminal Thickness	± 5mm			
Adjusting Height	0.3s		0.85s	
Dimensions	L1200×W500×H820mm		L1300×W520×H880mm	
Weight	140kg		260kg	

★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-P12 CRIMPING MACHINE

Introduction

HBQ-P12 crimping machine is a new semi-automatic crimping equipment. It is equipped with touch screen which can automatically adjust the shut height and move the wheel to make the applicator adjustment more convenient.

Features

- **Stable and Durable:** new mechanism design, crimping is stable, crimp force is stable at different shut heights;
- **Strong Versatility:** can adapt to a variety of applicators;
- **Accurate Adjustment:** independent motor adjusts the crimping height and automatically compensates the height;
- **Simple Operation:** touch screen control, setting parameters, point operation, convenient and fast to adjust the processing articles;
- **Muti Functions:** can connect to MES.

Specifications

Type	HBQ-P12
Power Supply	380V/50Hz
Power	1.5kW
Crimp Force	120kN
Stoke	40mm
Wire Cross Section	16~35mm <sup>2</sup>
Dimensions	W800 × D980 × H1700mm
Weight	600kg

★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

CLM Battery Terminal Crimping Applicator  
HD07 Heavy Duty Crimping Applicator





HBQ-S18 SERVO CRIMPING MACHINE

Introduction

HBQ-S18 servo crimping machine is a semi-automatic machine specially designed for large-square cable. Compared with traditional crimping machine, HBQ-S18 servo crimping machine has the highlights of automatic adjustable crimping height, shut height and large crimping press. With strong versatility and high crimping accuracy, it can match with various applicators.



Features

- **Stability**  
Simple transmission structure; Smooth and reliable operation;  
Constant torque control and crimping force always same, can realize the lowest voltage connection position, reduce the terminal rebound.
- **High Efficiency**  
Crimping height parameters are available at any time to achieve rapid change;  
Adjustable crimping speed to meet different crimping requirements;  
10-inch industrial computer screen, articles can be stored, accessible, easy to operate.
- **High Quality**  
Servo motor driven, high-precision electric cylinder as the executive mechanism, high repeatable positioning accuracy;  
The displacement sensor can feedback the position information in real time, which will alarm if crimp stroke out-of-range.  
This way will the crimping height be more stable.
- **Optional Modules**  
Options of networking mode and connected with MES are available, can carry out various data interaction;  
Can be adapted to CLM, DCM, HCA a variety of heavy duty applicators.

Specifications

Type	HBQ-S18	Speed Power	50mm/s
Stroke	100mm Max	Supply	380V/50Hz
Wire Cross Section	150mm² Max	MES	available
Power	11kW	Dimensions	L1200 × W1000 × H2200mm
Crimp Force	300kN	Weight	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

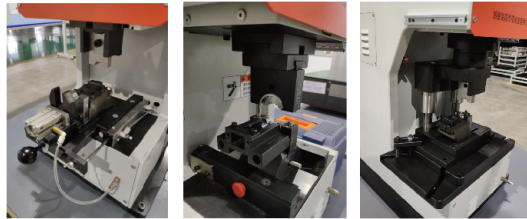
Introduction

HBQ-H15A is a semi-automatic machine specially designed for oversized wires. Compared with the mechanical crimping machines, HBQ-H15A is smaller in size but higher in crimp force. We design a new applicator-mounting, which can adapt to a variety of applicators such as CLM and HCA applicators. Adjustable shut height, multiple crimping functions and a wide range of application.



Features

- Small size and high pressure;
- Settable crimping safety height;
- Adjustable crimping stroke, short stroke gets high efficiency;
- Suitable oversized wires;
- Adaptable different applicators;
- Equipped with safety cover;
- Easy operation.



Specifications

Type	HBQ-H15A	Wire Cross Sections	120mm² ( max )
Stroke	50mm(max)	Stroke Per Minute	7S.P.M ( 50mm )
Power Supply	220V/50Hz	Dimensions	L800 × W750 × H1450mm
Power	1.0kW	Weight	320kg
Crimping Force	150kN		

★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 is one of crimping machine with build-in applicator, which is used for processing ferrules and shield ring. HBQ-125A could handle wires of different sizes without changing the applicator. This machine is widely used for the harness production of EV cars, charging station and battery cables.

Features

- **Efficient cost reduction:** No need to replace the applicator for different wire size, saving the cost for applicators;
- **Stable and lasting:** brand-new mechanism design, the crimping force of different closing heights is stable without attenuation, meeting the requirements of larger square cable crimping;
- **Strong versatility:** can crimp tubular ferrules and shielding rings;
- **Accurate adjustment:** independent motor adjusts the crimping height and automatically compensates the height;
- **Multiple configuration options:** optional manual positioning and automatic positioning devices to meet different customer needs;
- **Simple operation:** touch screen control, setting parameters, single step operation, and calling process jobs are more convenient;
- **Support customization:** the crimping length can be customized according to requirements.



Specifications

Type	HBQ-125A	Crimping Force	250kN
Power Supply	220V/50Hz	Wire Cross Sections	6~120mm²
Power	2.0kW	Stroke Per Minute	20 S.P.M
Crimping Length	12mm Customizable	Dimensions	L800 × W800 × H1500mm
Crimping Width	3~16mm	Weight	450kg

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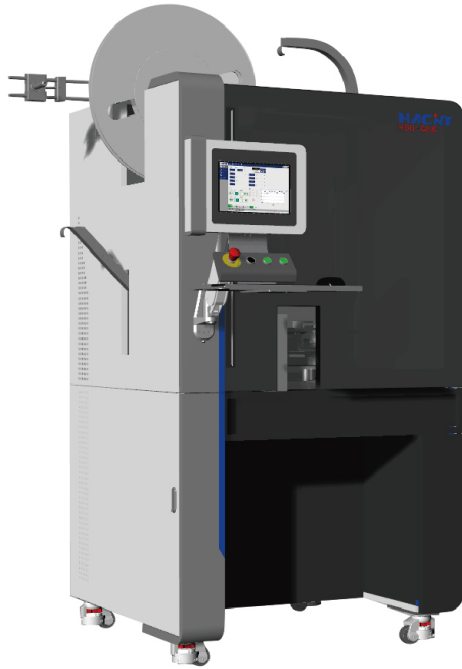
HBQ-K642 FPC CRIMPING MACHINE

Introduction

HBQ-K642 FPC Crimping Machine adopts exquisite mechanism, flexible intelligent control system, wide range to suitable for FPC series terminal row and terminal crimping, multifunction to provide customers with more FPC terminal crimping equipments.

Features

- The machine is simple with industry gray;
- Quick change modules;
- Compatible with FPC terminal row;
- With visual inspection function after crimping;
- Automatically set production parameters, suitable for diversified production;
- Friendly HMI, more intuitive graphic screen to improve the visibility and operability, operation interface can be in Chinese and English.



Specifications

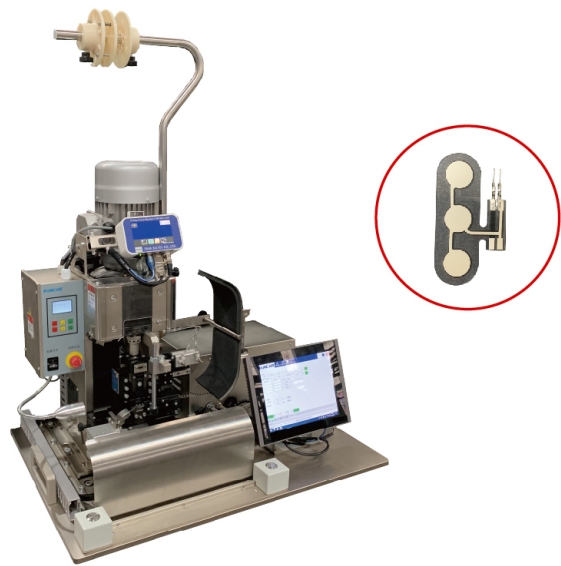
Type	HBQ-K642	Power Supply	AC220V/50Hz
Terminal	5.9mm	Power	3000W (max)
Terminal Width	200mm	Dimensions	L1520 × W950 × H2150mm
Terminal Pitch	2mm	Weight	700kg

★ 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-2030JB-FPC CRIMPING MACHINE



Introduction

HBQ-2030JB-FPC crimping machine is for soft row diaphragm piercing, which can be used for continuous crimping of two or more terminals, and the crimping quality is stable and reliable.

Features

- With simple structure, it's stable and reliable;
- The transfer mechanism adopts servo control to ensure the crimping position;
- With two-hand start function, it's safe and reliable;
- Small size, can be directly placed on the workbench.

Specifications

Type	HBQ-2030JB-FPC
Crimp force	20kN
Stroke	30mm
Shut Height	119.7mm
Power Supply	220V/50Hz
Weight	150kg
Dimension	W800×D500×H1050mm

OPTIONAL ACCESSORIES

Introduction

CRIMP FORCE MONITOR

- Thermal drift compensation, Defects alarm, values record, Waveform stability detection, CPK calculation;
- With 3.5 "color LCD touch screen, easy and simple to operate;
- Two types of Built-in & External optional;
- Can be integrated with different brands of crimping machines.



Crimp force monitor

YJJFJ-037 MULTI-FUNCTION CONTROL MODULE

- Compact appearance, convenient installation, built-in LED display, easy operation;
- To change built-in procedures, can control the different modules;
- Waste cutting module and CLM battery terminal crimping applicator added with the tube quick change connector, can perfectly match to this module;
- Lower energy consumption, overload protection.



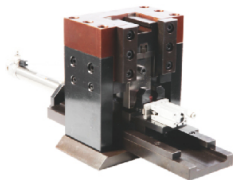
Multi-function Control Module

WASTE CUTTING MODULE

- Shear bands on the terminal independently, recycling waste concentrately;
- Prevent the waste splashing,scattering when machine is operating, convenient on-site management;
- Installed below the work surface, waste feeding through the catheter;
- Blade is long-life duration, shear pressure is large.



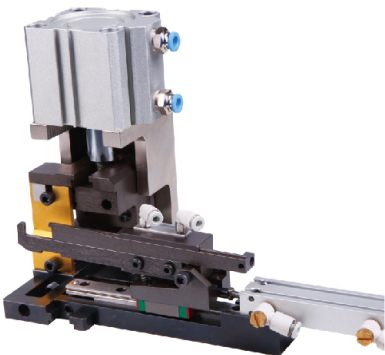
Waste Cutting Module



CLM Battery Terminal Crimping Applicator

BAD CRIMP CUTTER

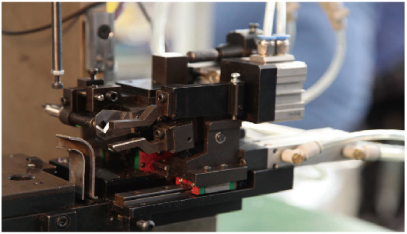
- Connected to cfm directly, to cut off unqualified wires;
- Cut off the unqualified products immediately the cfm alarm , to ensure high quality;
- Can install on the crimping machine of HACINT;
- Can work with the waste cutting module;
- Different modules designed and developed according to special equipment.



BAD CRIMP CUTTER

### CABLE STRIPPING MODULE

- Stripping module installed to the terminal crimping machine, stripping and crimping completed in one-step;
- Match to the 4T press machine of HACINT brand, stripping depth and length can be conveniently adjusted;
- Can be applied to the tape cutting module;
- Different modules designed and developed according to special equipments;
- Can be triggered by pedal and the micro sensor.



Stripping module

### PAPER WINDER

- Can be matched to any kind of terminal crimping machine, And it winds the paper after crimping;
- With the motor driving, quiet, smooth rotation and long life available;
- Paper winder is driven by the spring friction, when the wheel is rotating, terminals will not be pull.



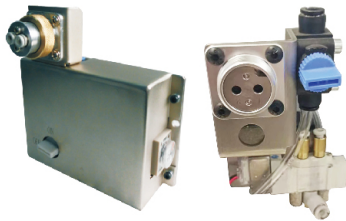
Paper winder



Fast-plug coupler

### PNEUMATIC CHANGE MODULE

- The module is a good partner for pneumatic feeding applicators, no valves needed for each applicator any more, greatly save the cost;
- With delay setting function, change-over time can be accurately adjusted, can meet the feeding requirements of different special applicators;
- Compact size , can be matched with various terminal crimping machine;
- The pipe quick joint can realize the quick change for various applicators, greatly improves the efficiency;
- Two optional quick changed coupler: screwed one and fast-plug one.



Pneumatic Feeding Module

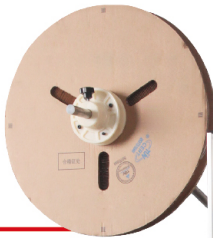
### SHUT HEIGHT GAUGE

- Special equipment for crimping height;
- can be manufactured in all the terminal crimping machine of the closed high degree of harmonization and alignment, thereby achieving rapid change mode, improve work efficiency;
- Built-in pre-load to eliminate mechanicalgap, measurement accuracy 0.01mm;
- 135.78mm (European-style) and 119.7mm (Japanese-style) two kinds of specification to choose from.



Shut Height Gauge

## HBQ-208 STRIPPING & CRIMPING MACHINE



### Introduction

HBQ-208 is a highly efficient machine for different wire sizes with a function combination of stripping and crimping.

### Features

- **Integration design:** Cutting, stripping, crimping;
- **Functional diversities:** Meeting the processing requirements of different wire sizes and changeover time is within 5min;
- **Humanization operation:** Place the wires manually and there is no move when processing;  
Easy to operate because of the touch operation interface;
- **Cleanliness:** Collection device of waste and wire scraps for machine clean;
- **High accuracy:** Cutting depth is controlled by servo motor with an accuracy of  $\pm 2\text{mm}$ ;
- **Defective detection:** CFM (Crimp Force Monitoring) for preventing the defectives flowing to the next procedure.

### Specifications

Type	HBQ-208	Wire Cross Sections	0.3~2.0mm <sup>2</sup>
Power Supply	AC220, 50Hz	Cycle Time	2~3s
Air Supply	5~7Bar	A $\leq$ 8mm	
Power	1.5 kW	Stripping Length	
Terminal	Chain terminals	B $\geq$ 35mm	
Crimp Force	20 kN	Wire Length	
Stroke	40mm	Dimensions	L910 × W850 × H2000mm
		Weight	280kg

★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 & CRIMPING MACHINE

Introduction

HBQ-210B is applied to processing sheathed wire or twisted pair with offering sealing, stripping, zero cutting, and crimping of the multi-core cables. This machine can realize three steps at the same. And these functions can be realized independently. It provides real-time monitoring of seals, wire color(optional), stripping(optional) and crimp force(optional), which significantly improves efficiency, high quality and cost performance.



Features

- **High integration:** zero cutting, sealing, stripping and crimping can take place simultaneously;
- **High quality:** seals monitoring, wire color monitoring(optional), stripping monitoring(optional) and crimping monitoring (optional) can be realized;
- **Efficiency:** cycle time is approximate 2.6s (Notion: different wires for different cycle time);
- **High accuracy:** stripping length accuracy  $\pm 0.1\text{mm}$ , stripping depth accuracy  $\pm 0.01\text{mm}$ ;
- **Durability:** blades for stripping and blades for zero cutting are independent and ensures blades durability;
- **Easy operation:** stripping length and depth can be adjusted by software, articles storage for different wire processing data.

Specifications

Connection	Power Supply 220V 50Hz 1500W Air Pressure 5~7Bar, dry and oil-free
Cycle Time	2.5~3.0s ( incl. sealing ) 2.4~2.9s ( excl. sealing ) (for reference only, different wires for different cycle time)
Wire Cross Sections	0.13~2.5mm <sup>2</sup>
Seal Size	2mm < OD < 7mm (Others need to be confirmed)
Crimping	Stroke 30mm/40mm Crimp force 20kN
Stripping Length ( incl. seal )	A Range: 0~8mm B $\geq 25\text{mm}$ is related to the product
Stripping Length ( excl. seal )	A Range: 0~8mm B $\geq 18\text{mm}$ is related to the product
Dimensions & Weight	Approx. L1100 × W1000 × H2000mm Weight 440kg

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HBQ-210C STRIPPING & CRIMPING MACHINE

Introduction

HBQ-210C is the machine mainly used to strip the external insulation wire in the processing of the short and small square double core wire (Ethernet wire). The operator inserts the wire into the equipment by hand, and the equipment automatically completes the shaping, zero-cutting, stripping and crimping of the wire, which dramatically increased production efficiency and ensures product quality accurately.

Features

- **High integration:** It is a device integrating shaping, zero cutting, stripping and crimping terminal;
- **High quality:** Equipped with pressure management device to detect the crimping quality of terminal;
- **High precision:** Stripping length accuracy  $\pm 0.1\text{mm}$ , cutter accuracy  $\pm 0.01\text{mm}$ ;
- **Humanized operation:** Stripping length, stripping depth and zero-cutting length can be adjusted by controlling parameters.



Specifications

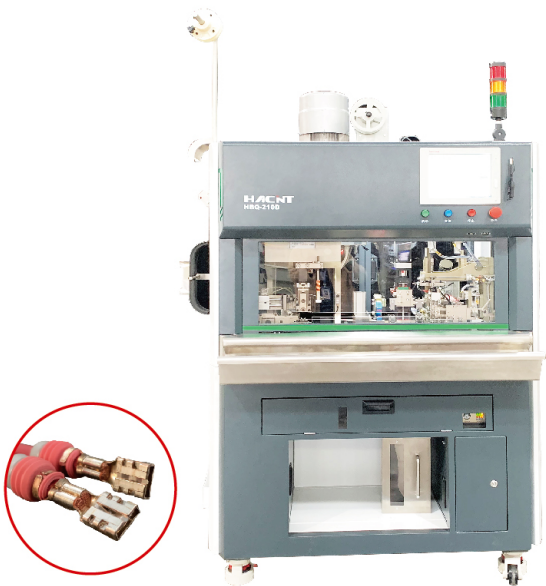
Connection	Power Supply and power 220V 50Hz 1500W Compression Air 5~7Bar Dry and oil free
Wire Cross Sections	Wire type: Double core wire with insulated outerlayer (Ethernet cable) Cross sections: 0.13~0.35mm <sup>2</sup> Conductor type: Copper or thin wire
Frame Protection Cover	Frame of equipment: welded steel structure Protective cover: metal plate structure with transparent acrylic
Period	Equipment cycle time: 4.0~6.0s
Crimping Module	Stroke: 30mm or 40mm Pressure: 20kN
Stripping Length (Stripping and Crimping Machine)	A Size range: 0~4mm B Size range: 8~12mm
Dimensions & Weight	Dimensions: about L1000 × W1100 × H1700mm Weight: 440kg Packing type: wooden pallet

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HBQ-210D STRIPPING & 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:** sealing, zero cutting, stripping and crimping can take place simultaneously;
- **High quality:** seals monitoring, stripping monitoring and crimping force monitoring can be realized;
- **Efficiency:** cycle time is approximate 4.5~6.0s(Notion: different wires for different cycle time);
- **High accuracy:** stripping length accuracy  $\pm 0.1\text{mm}$ , stripping depth accuracy  $\pm 0.01\text{mm}$ , seal loading accuracy  $\pm 0.1\text{mm}$ , Seal Inspection accuracy  $\pm 0.1\text{mm}$ ;
- **Durability:** blades for stripping and blades for zero cutting are in dependent and ensures blades durability;
- **Easy operation:** stripping length and depth can be adjusted by software, articles storage for different wire processing data.

Specifications

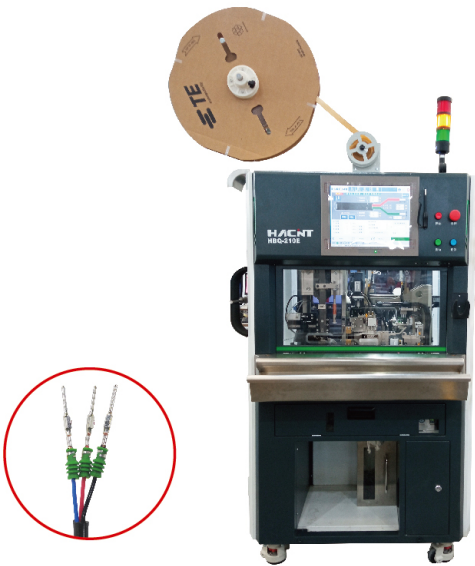
Connection	Power Supply and power 380V 50Hz 4500W Compression Air 5~7Bar Dry and oil free
Wire Cross Sections	Wire type Single-core, multi-core Cross-sectional area: 2.5~16mm <sup>2</sup> Conductor type: Copper or thin wire
Seal Size	Diameter $\phi D \leq 15\text{mm}$ Length $\leq 18\text{mm}$
Frame Protection Cover	Frame of equipment: welded steel structure Protective cover: metal plate structure with transparent acrylic
Period	Equipment cycle time: 4.5~6.0s
Crimping	Stroke: 30mm or 40mm Crimp force: 80kN
Stripping Length	A Size range: 0~11mm B minimum depends on terminal and seal length(B > 40mm in general)
Dimensions & Weight	Dimensions: about L1200 × W1000 × H2000mm Weight: 750kg Packing type: wooden pallet

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HBQ-210E STRIPPING & CRIMPING MACHINE

Introduction

HBQ-210E Stripping & Crimping Machine is applied to process of sheathed wire or twisted wire with offering sealing/stripping/zero cutting/crimping of multi-core wires. These functions can be realized independently. This one-stop machine solves the traditional manual operation and provides real-time monitoring of seals, stripping and crimping force, which greatly improving the production efficiency.



Features

- **High integration:** sealing, zero cutting, stripping and crimping can takeplace simultaneously;
- **High quality:** seals monitoring, stripping monitoring and crimping force monitoring can be realized;
- **High efficiency:** cycle time is about 3.8~4.2s(sealing insertion included)3.4~3.8s(sealing insertion excluded).  
Just for reference, it depends on different wires
- **High accuracy:** stripping length accuracy  $\pm 0.1\text{mm}$ , stripping depth accuracy  $\pm 0.01\text{mm}$ , seal loading accuracy  $\pm 0.1\text{mm}$ , Seal inspection accuracy  $\pm 0.1\text{mm}$ ;
- **Durability:** blades for stripping and zero cutting are independent and ensures blades durability;
- **Easy operation:** stripping length and depth can be adjusted by software, articles storage for different wire processing data.

Specifications

<b>Connection</b> Power supply and power: 220V 50Hz 1500W compression air 5~7bar, dry and oil free	<b>Cable</b> Wire type: multi-core(single core, double core, three-core) cross section 0.3~2.5mm <sup>2</sup> conductor type: Copper or thin wire	<b>Protection Cover</b> Frame of equipment: welded steel structure Protection cover: Sheet metal molding with black translucent acrylic
<b>Cycle Time</b> 3.8~4.2s ( include seal loading ) 3.4~3.8s ( no seal loading ) For reference only, it's slightly different for different wires	<b>Stripping Length (seal stripping&amp;crimping machine)</b> A size range: 0~8mm B minimum size depends on terminal ( generally B ≥ 50mm ) Stripping length(stripping&crimping machine) A size range: 0~8mm B minimum size depends on terminal ( generally B ≥ 42mm )	<b>Dimension</b> L1100XW1000XH2000mm
<b>Seal Size</b> 2mm < OD < 7mm ( Larger and smaller diameters need to be confirmed )		<b>Weight</b> 440kg
<b>Crimping Module</b> stroke 30mm or 40mm crimping force 20kN		<b>Packing</b> wooden pallet

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# HBQ-210F STRIPPING & CRIMPING MACHINE


## Introduction

HBQ-210F is applied to process sheathed cable or twisted pair cable. The operator inserts the cable into the machine, and the machine can automatically strip/ cut/crimp the multi-core wire respectively. Each function units can work independently. Online detecting crimped terminal and stripping(optional), and CFM (optional) in real time. Greatly improve production efficiency, accurately ensure product quality and save cost.

## Features

- Integration: integrated with accurate cutting, stripping, crimping terminals, visual detection as a whole
- Quality assurance: real-time detect stripping, crimp force, terminal appearance
- Accuracy: stripping accuracy  $\pm 0.1\text{mm}$ , cutting accuracy  $\pm 0.01\text{mm}$
- User-friendly: stripping length and depth are adjusted by software control; get the articles to change the products

## Specifications

<b>Supply</b> Power supply/ Power: 220V 50Hz 1500W compressed air: 5~7bar, clean and no oil	<b>Crimping Module</b> Stroke 30mm/40mm Crimp Force 20kN	<b>Dimension&amp;weight</b> L1200 × W1000 × H2000mm Weight: 440kg
<b>CT</b> 5.8~8.0s ( include taking pictures ) 2.5~3.0s ( exclude taking pictures ) for reference only, it's different for different cables	<b>Crimping length(Crimping&amp;stripping machine)</b> A dimension: 1~8mm B $\geq 18\text{mm}$ depends on cables 	
<b>Cable Size</b> 0.13~2.5mm <sup>2</sup>		



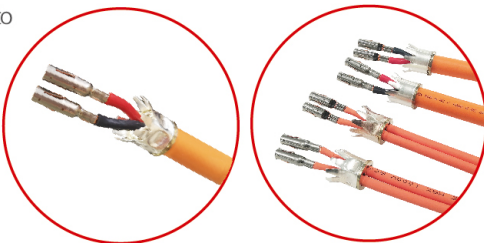
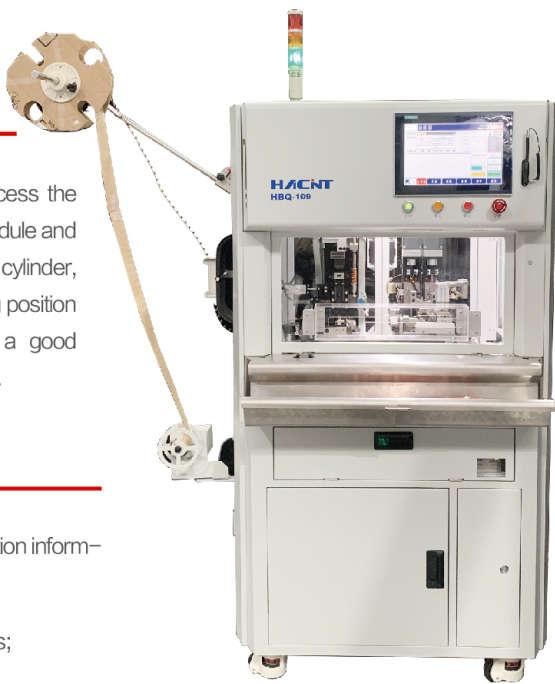
# HBQ-109 DUAL-WIRE CRIMPING MACHINE

## Introduction

HBQ-109 is the stripping and crimping machine used to process the dual-core EV cables. With high-precision servo motor cutter module and horizontal transmission structure with absolute encoder electric cylinder, the machine can secure the stripping accuracy and the crimping position accuracy to be 0.01mm. The floating gripper can ensure a good consistency of the two wires even crimping under different height.

## Features

- **Simple:** The large touch screen displays a variety of configuration information, which is easy to use;
- **High efficiency:** high production efficiency, cycle time 3.5s~4.5s;
- **Intelligent:** Two-wire automatic color recognition;
- **Long lasting:** imported blade material, durable;
- **Multiple selection:** the peeling and crimping modes can be set separately to realize the best production mode;
- **Convenient:** parameterized adjustment, convenient and quick;
- **Interconnection:** Support MES networking.



## Specifications

Crimp Force	40kN	Stroke	30/40mm
Power Supply	AC220V/50Hz	Stripping Length	0.1~6mm
Air Supply	0.5~0.7 MPa (min)	Cycle Time	4~6s
Wire Cross Sections	2.5~4mm <sup>2</sup>	Dimensions	L1100 × W1000 × H2000mm

★ 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 STRIPPING AND CRIMPING MACHINE FOR ETHERNET CABLE

## Introduction

HBQ-212A can realize automatic stripping and crimping of multi-specification dual-core Ethernet wires, which can automatically complete core wire shaping, core wire stripping, core wire terminal crimping, outer ring crimping, CCD crimping automatic detection and discharging.

**Crimping:** simultaneous crimping of core wires and outer rings.

## Features

- **Highly integrated:** core shaping, core stripping, core terminal crimping, outer ring crimping, CCD crimp detection;
- **High quality:** CCD detection to reject defective;
- **High efficiency:** two sets of circular clamping jaws operate in parallel to improve production efficiency;
- **Humanization:** stripping length and crimping size are adjusted by software control. To change products, just call up the corresponding product recipe;
- The use of a high-precision positioning mechanism ensures consistency in length;
- Equipped with automatic visual inspection device for real-time monitoring of product quality, automatic alarm and automatic isolation of defective products;
- Friendly PC interface with more intuitive graphic screens for improved visibility and operability.



## Specifications

Wire Type	Applicable products Dual core Ethernet (If you need to adapt to other products, please contact us)
Wire Cross Sections	0.13~0.35mm <sup>2</sup>
Stripping Length	A:0.1~4.0mm B:8~12mm



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# HBQ-902 HARNESS PROCESSING CENTER



## Introduction

The HBQ-902 harness processing center can perform the functions of cutting, stripping, sealing, crimping and inserting, and it can process wires up to 48, saving a lot of manpower for wire harness manufacturers, effectively reducing the number of products in progress, increasing the company's market response sensitivity and improving product quality. The device can adapt to the situation of simultaneous insertion with multiple housings, and has better compatibility with a variety of insertion ends and complex insertion techniques. This machine, with modular design, can provide customized services, and flexibly adjust the station layout according to the actual production conditions of customers, which has good market applicability.

## Features

- **Flexible expansion:** using industrial computer control, it is convenient to connect to MES, and expand various functions;
- **High intelligence:** all the process could complete by the machine except loading the wires, connectors and terminals;
- **Simple operation:** visual and intuitive parameter setting interface, convenient and flexible for process parameter setting;
- **Accurate control:** the stripping, inserting end, and wire transfer all adopt servo motors to precisely control the displacement accuracy;
- **Online detection:** equipped with precision force measuring device, which can dynamically display the size of insertion force and withdrawal force and save data;
- **Stable quality:** equipped with pressure management device and defective product management device to prevent defective products from flowing into the next station.

★ 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.

## Specifications

Wire Cross Sections	0.22~2.5mm <sup>2</sup> / 0.22~6.0mm <sup>2</sup>
Wire Number	≤48
Stripping Length	0.1~25mm
Feeding Speed	3m/s ( max )
Cutting Length	
A: Simple insertion both ends 300~3000mm / 300~5000mm	
B: Composite insertion both ends 700~3000mm / 700~5000mm	
C: Single end insertion ( Need to process the other ends ) 280~2000mm	
D: Single end insertion ( No need to process the other ends ) 80~2000mm	
Seal Type	4 Optional
Crimping Station	8 Optional
Feeding Accuracy	L < 500mm: ± 1mm L ≥ 500mm: ± ( 1+0.2%*L ) mm
Insertion Efficiency	1.4~2.4s/hole ( Different processes result in varying efficiency )
Power Supply	AC380V/50Hz
Air Supply	5~7Bar
Power	10kW
Dimensions	L8300 × W4000 × H1900mm
Weight	4000kg



HBQ-G512 FULLY AUTOMATIC DOUBLE-HEAD HOUSING INSERTION MACHINE



Introduction

HBQ-G512 is a kind of fully automatic double-head terminal crimping, double-head single-wire shell insertion harness processing machine, processing products suitable for automotive wire harness and home appliance electronic wire. The whole machine layout adopts modular design, high efficiency and convenient debugging. The machine is equipped with terminal pressure detection, stripping CCD detection (optional), core number CCD detection (optional), terminal CCD appearance detection (optional), terminal insertion force detection, terminal pulling force detection, to prevent the outflow of inferior products. Key components are imported or well-known domestic brands to ensure the reliability .

Specifications

Function	Terminal crimping, terminal pressure detection, terminal CCD appearance detection, stripping CCD detection, core number CCD detection, terminal insertion force detection, terminal pulling force detection, Multi-layer rubber shell double-head insert shell
Applicable Product	Double-head inserting shell, double-head crimped one end shell
Wire Cross Section	0.04~2mm² ( AWG32#~AWG14# )
Processing Length	80mm~700mm ( Length can be customized )
Capacity Efficiency	L=100 1700~2000pcs/h ( Slightly different according to products )
Crimp 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 ± 0.5 ) mm
Crimping Applicator	European mold/Japanese mold
Shell Spacing	0.8~3.96
Dimensions	W1800 x L1600 x H1800 2000kg

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

Introduction

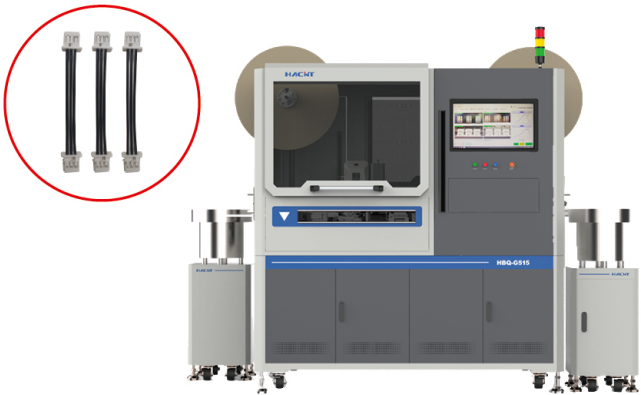
HBQ-G515 fully automatic double-head housing insertion machine(V2.0) is a fully automatic double-head multi-wire harness processing machine of wire terminal crimping, inserting shell, tail tinning or double-head multi-wire inserting shell, suitable for automotive wire harness, home appliance electronic wire. The layout of the whole machine adopts modular design, high efficiency, easy debugging, support for rapid type change, 1 hour change completed. The machine is equipped with terminal pressure detection, stripping CCD detection (optional), terminal CCD appearance detection (optional), terminal in place CCD detection (optional), NG cut off anti-stay, to prevent the outflow of inferior products. Key components are imported or well-known domestic brands to ensure the reliability of the equipment.

Features

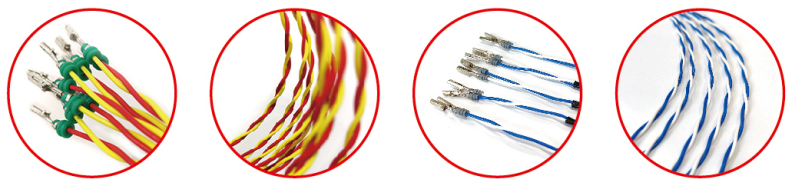
- 1 hour product quick change;
- Terminals do not overlap after crimping;
- The whole machine adopts servo system, linear motion precision grinding screw guide rail, compact structure and higher efficiency;
- Peeling adopts double-station design, front and rear peeling cutters are convenient for debugging;
- Friendly PC interface with industrial computer control for easy connection to MES;
- Front and rear dual screen for easy debugging.

Specifications

Model	HBQ-G515
Function	Terminal crimping, double-head inserting shell, inserting shell at one end and tinning at the other end, terminal pressure detection, peeling CCD detection, terminal CCD appearance detection, terminal in place CCD detection
Applicable Product	Double-head inserting shell, inserting shell at one end and tinning at the other end, terminal pressure detection, double-head processing and inserting shell at one end
Wire Cross Section	0.04~1mm²AWG32#~AWG18# )
Processing Length	40~600mm (Can be extended for customization )
Capacity Efficiency	L=100 Out one at a time 400~450 sets/h (Out several at a time according to the product sequence
Crimp Force	Servo 2T
Stripping Length	A:1~6mm B:1~15mm
Stripping Accuracy	± 0.2mm
Length Accuracy	± ( 0.2% × L+1 ) mm
Tinning Length	1~15mm
Crimping Applicator	Special die for wiring
Shell Spacing	0.8~3.96mm
Dimension	L1600 × W1900 × H1800mm
Weight	1070kg
Optional Accessories	Peeling CCD detection Terminal CCD appearance detection Terminal in place CCD detection Take-up can be customized



HBQ-922 DUAL-WIRE TWISTING CENTER



Introduction

HBQ-922 is a machine that processes twisted pairs, for automatically cutting, stripping, seal insering, crimping and twisting, Wires with cross sections ranging from  $2 \times 0.3\text{mm}^2$  to  $2 \times 2.5\text{mm}^2$  can be processed efficiently, there are following features:

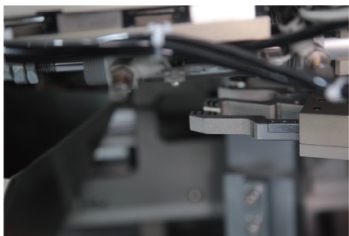
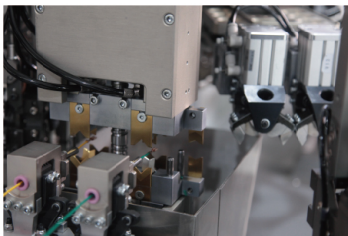
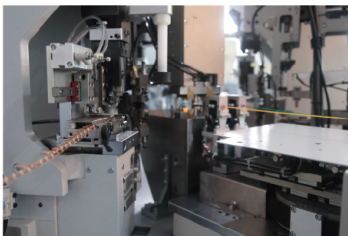
**Labor Save:** can realize cutting, crimping, seal insering and twisting at the same time;

**Moving Save:** remove the material moving from crimping machine to twisting machine;

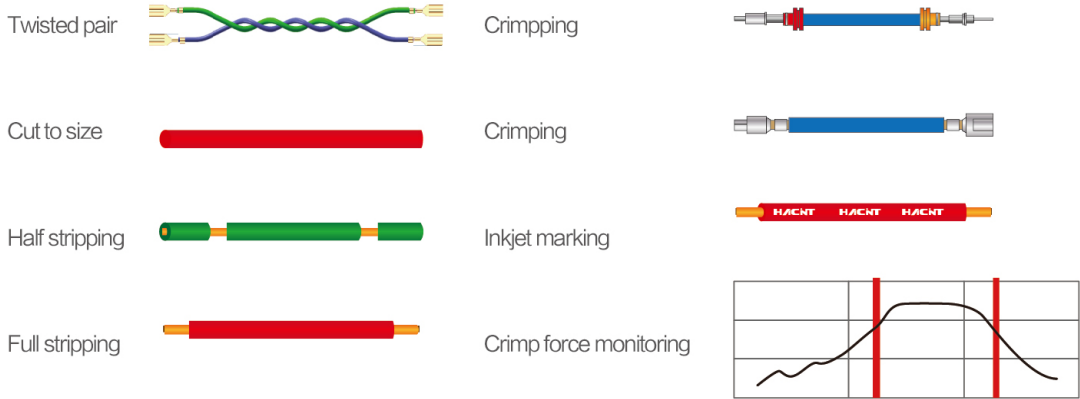
**High Efficiency:** the highest processing efficiency can be up to 3.6 s;

**Pitch length accuracy:** within  $\pm 10\%$ ;

**High flexibility:** process of twisted pairs, single wires and dual wire.



Features



Other functions

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

Specifications

Type	HBQ-922
Wire Cross Sections	0.3~2.5mm <sup>2</sup>
Wire Length	300~4000mm Standard issue
Machining Accuracy	$\pm (0.3\%L + 1.5\text{mm})$ , "L" refers to the wire length
Stripping Length	0.1~18mm
Open Length Ends	35~90mm
Stagger Length of The Open Ends	0~120mm
Pitch Length	5~80mm
Feeding Speed	3m/s
Noise Level	<75dB(Without crimping)
Temperature	-5~+40℃
Air Supply	0.5~0.7MPa
Power Supply	380V/50Hz
Power	8kW(max)
Dimensions	L9000 × W2200 × H2000mm
Optional Accessories	FSA-001E Seal loading module DPS servo crimping module Frequency conversion crimping machine Shut height measurement module Terminal pull force detection module

★ 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-903 PROCESSING CENTER FOR CONTROL CABINET CABLE



Introduction

HBQ-903 is an automatic processing machine for the power distribution cabinet industry, which can realize automatic cutting, stripping, tube inserting, hot printing, automatic material selection of various kinds of loose terminals, automatic switching crimpers. visual inspection of product appearance, automatic cable binding.

The improvement of automation level can perfectly solve the shortcomings of traditional manual operation, such as complex process, high labor intensity, quality cannot be guaranteed. The equipment adopts the modular designation, can provide customized services, flexibly adjust the station layout according to the actual production situation of customers, and has good market applicability.

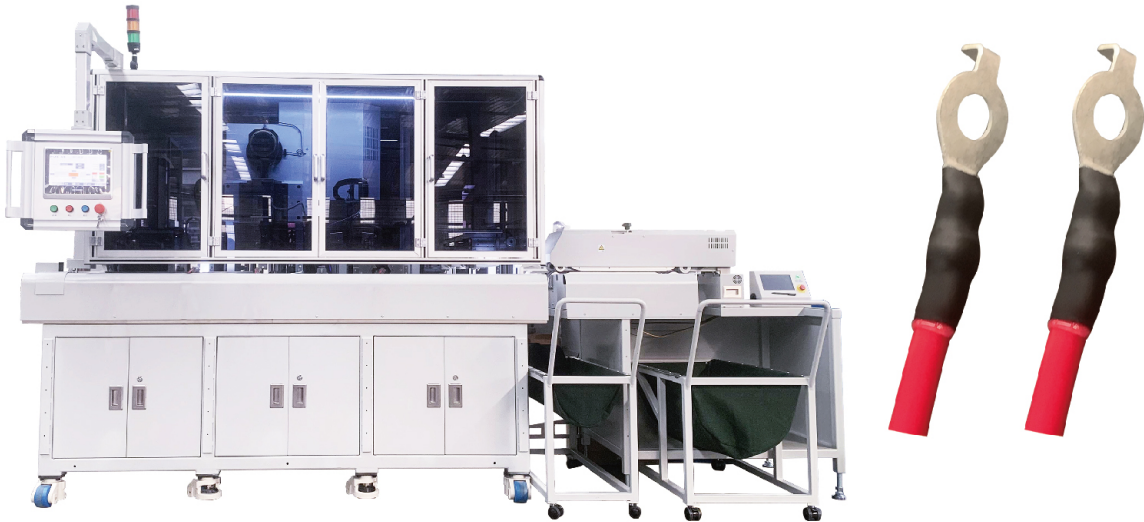
Features

- **Import of intelligent work order:** Customers can remotely send import production scheduling through MES system or manually;
- **Automatic switching of different wires:** up to 36 kinds of cables can be automatically switched online;
- Automatic monitoring of the production process;
- **Stable Control System:** The control system is adopted widely to control the production of the whole machine through the upper computer, convenient and user-friendly operation;
- **Automatic production for a variety of chain terminals:** for chain terminal, integrated automatic cutting, clamping, feeding to crimping position, save the time of changing, maximize the production efficiency;
- **Automatic production of various types of loose terminals:** Select loose terminals by high precision servo mechanism, which can realize precises witching of different terminals and multi-function of one machine;
- **Fast switching of multi-crimpers:** servo motor is used to drive the automatic switching of crimpers, matching with different loose terminals;
- **Thermal to print tube technology:** independently developed thermal to print module, printing is clear and friction resistance;
- **Flexible expansion of the working station:** the working station can increase or decrease workstations according to customer needs to achieve flexible production.

Specifications

Type	HBQ-903	Cutting Accuracy	± ( 1+0.2%*L ) mm
Wire Size	0.75~2.5mm <sup>2</sup>	Station	2 presses, 4 sets of pipe loading machines (free combination of pipeloading/crimping, customized available)
Stripping Length	0.5~18mm	Power Supply	380V/50Hz
Cable Marker Length	15~30mm	Air Pressure	>0.5 MPa
Feeding Speed	3m/s(max)	Number of Cables	6 pcs (according to customer Max 36 cables It can be expanded)

HBQ-180B PROCESSING CENTER



Introduction

HBQ-180B is specially designed for large wire of the new energy industry, with automatic functions of stripping, crimping, heat shrinkable and CCD+robot to automatically detect materials. It's more universal and intelligent.

Features

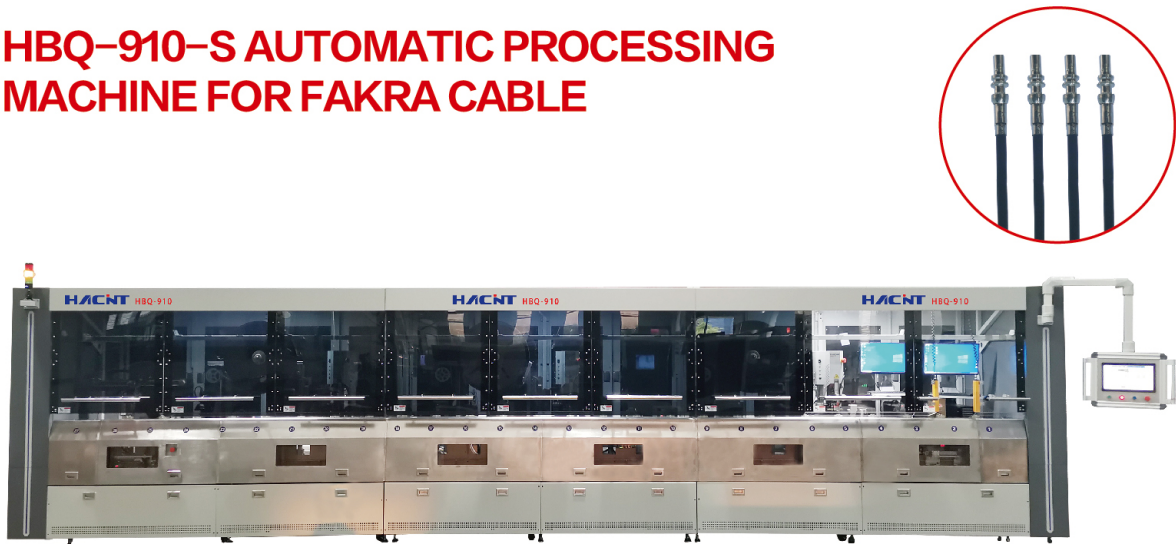
- Efficient:** with automatic functions of stripping, crimping, heat shrinkable to save the middle turnover time, it's high efficient;
- General:** Vibration platform with CCD+robot to flexibly feed, can process some single terminals, and avoid frequent type change caused by terminals match with a vibration plate;
- Intelligent:** CCD can automatically detect terminal position and the robot quickly grab terminals. If the vibration plate has no appropriate position, the vibration plate automatically reverses the terminal to the appropriate position and continues to grab;
- Safety:** The machine is equipped withan integral safety cover, and eachaccess door equipped with a safety door switch, whichwill directly alarm and stop the machine if the safety guard opened during operation.

Specifications

Type	HBQ-180B	Cycle Time	15s
Wire Cross Sections	10~50mm <sup>2</sup>	Power	9.0kW
Wire Length Range	300~2000mm	Power Supply	AC380V 50Hz
Tube Length	30~60mm	Air Supply	5~7Bar
Stripping Length	0~20mm	Dimensions	L4500 × W1700 × H2400mm
Crimp Force	200kN	Weight	2000kg

★ 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-910-S AUTOMATIC PROCESSING MACHINE FOR FAKRA CABLE



Introduction

HBQ-910-S can automatically strip, crimp shield ring, shield folding back, remove aluminum foil, stripcore wire, crimping, crimp center conductor and other detection.

Features

- The equipment can realize single-end processing for Rosenberger 3 fakra, Rosenberger Mini Fakra and Te Mini Fakra;
- The whole machine is controlled by PLC , and the operation mode of touch integrated machine and mobile screen is more suitable for production;
- Article database system, different numbers freely switch, to achieve rapid and automatic production scheduling;
- The crimping machine is equipped with SOL CFM, the crimping process monitored and testing data preserved real-time;
- Operation Rights Management, product data storage;
- With brand electrical components to ensure the long-term stable operation of equipment;
- Flexible equipment layout, standard Function Module + vehicle cycle.
- It's simple with square steel frame and two colors.

Specifications

Type	HBQ-910-S	Crimp Force	2T
Wire Size	2.8 & 3.3mm	Stroke	30/40mm
Wire Length	200~10000mm	CT	6s
Stripping Length	0.5~30mm	Air Source	5~6Bar
Stripping Layer	1~3 layers	Noise	≤75dB
Stripping Accuracy	±0.1mm	Power Supply	AC380V/50Hz
Crimping Station	3stations	Dimension	L9600 × W1300 × H2250mm

HBQ-910-H AUTOMATIC PROCESSING MACHINE FOR FAKRA CABLE



Introduction

HBQ-910-H can automatically feed, coil, cut, bind, feed, straighten, insert shield ring, half strip wire, crimp shield ring, fold back, cut aluminum foil, crimp center pin terminal, straighten center pin terminal, insert outer terminal, turn back shield mesh, assembly& crimping terminals and detection functions.

Features

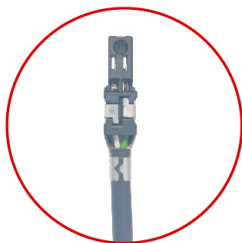
- The machine can realize mixed processing of double-end for Rosenberger 3rd FAKRA, Rosenberger 2nd FAKRA, Rosenberger minifakra, TE fakra, TE minifakra;
- With PLC bus control, the operations could be controlled by IPC with touch panel integrated on the machine and/or a mobile PDA which is more suitable for on-site production;
- Articles database management system, quick change over for different product and fast production scheduling could be realized with high automation;
- CFM integrated and real-time monitor the crimping process, crimp force data can be stored;
- User authorization management for different levels, networkable to MES, product data traceability;
- With electrical components of famous brand to ensure the long-term stability;
- Flexible layout, modular design;

Specifications

Type	HBQ-910-H	Crimp Force	2T
Wire Outer Diameter	2.8 & 3.3mm	Stroke	30/40mm (optional)
Wire Length	Wire length<1.2m, wires need to be fed manually 1.2m≤wire length < 10m, wires can be coiled, cut and fed automatically	C/t	≤10s
		Air Supply	5~6Bar
Strip Length	0.5~30mm	Noise Level	≤75dB
Strip Layer	1~3layers	Power Supply	AC380V/50Hz
Strip Accuracy	±0.1mm	Dimension	L20000 × W1300 × H2250mm
Crimp Station	6 stations		



HBQ-212 AUTOMATIC PROCESSING MACHINE  
FOR ETHERNET CABLE



Introduction

HBQ-212 automatic processing machine for ethernet cable can auto matically complete core wire shaping, stripping, terminal crimping, housing insertion, assembly crimping outer shell, visual system detection and wire cutting.

Features

- **High integration:** with multi-functions of core wire shaping, stripping, terminal crimping, inserting housing, assembly crimping outer shell, visual system detection;
- **High quality:** visual inspection of core wire crimping quality, size and appearance, visual inspection of finished product appearance and size;All of the zero cutting length, stripping length and depth, housing insertion position and assembling position of outer shell are controlled by servo;
- **High efficiency:** two sets of circulating gripper work simultaneously to improve production efficiency;
- **Humanization:** the stripping length and depth are controlled and adjusted by software;
- **Cleaning:** with the recycling device to collect wire insulation and terminal scrap, to keep the whole equipment clean.

Specifications

Wire Type	Applicable products Dual core Ethernet (If you need to adapt to other products, please contact us)
Wire Cross Sections	0.13~0.35mm <sup>2</sup>
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-912 AUTOMATIC PROCESSING MACHINE  
FOR ETHERNET CABLE

Introduction

HBQ-912 automatic processing machine for ethernet cable can automatically complete core color detection, core wire shaping, core wire stripping, core wire and terminal crimping, outer ring crimping, CCD crimping detection, marking, bad crimp cutting, and other Intelligent work.

**Crimping:** realize crimping of core wire and outer ring at the same time.



Features

- **High Integration:**wire sequence detection, core wire shaping, core wire stripping, core wire and terminal crimping, outer ring crimping, visual system detection, automatic marking;
- **High Quality:**visual inspection of core wire crimping quality, size and appearance;
- **High Efficiency:** automatic cycle of the Unit Load Device , each station work simultaneously, time saving and high efficiency;
- **Humanized:**Stripping length and depth can be controlled and adjust through software;
- **Cleaning:**There is a recycling device for insulation and terminal waste to keep the whole equipment clean.



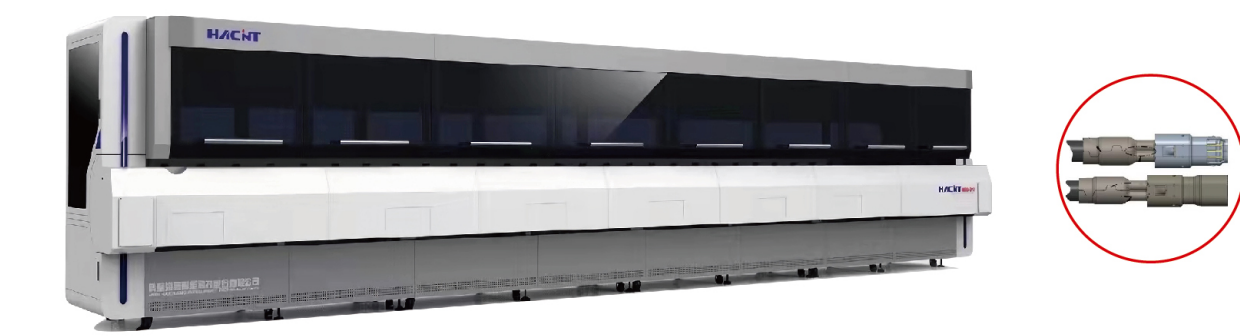
Specifications

Wire	Dual Core Ethernet
Wire Cross Sections	0.13~0.35mm <sup>2</sup>
Cycle Time	5~6s
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-912 HMTD AUTOMATIC PROCESSING MACHINE FOR ETHERNET CABLE



### Introduction

HBQ-912-HMTD can complete wire stripping, wire sequence adjustment, crimping shield ring, folding back mesh, aluminum foil remover, double core wire shaping, double core wire stripping, core wire crimping with terminals, automatic outer shell assembly crimping and other detection functions.

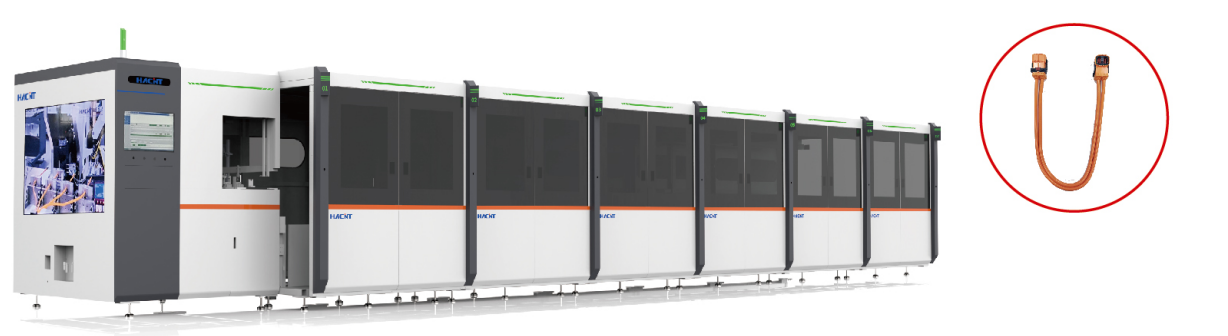
### Features

- Process for Rosenberger MTD & HMTD Single-end
- With PLC bus control, and the double operation of touch integrated machine and mobile screen is more suitable for on-site production;
- Article database system, quick change part number, fast production scheduling;
- Crimping machine equipped with CFM, real-time monitor crimping process and save test data;
- Operation authority management, product data storage;
- With brand electrical components to ensure the long-term stability;
- Equipment layout is flexible, function module + vehicle cycle, modules are standard;
- With two-color square steel frame, it's simple and generous;

### Specifications

Type	HBQ-912-HMTD
Cable length	200~10000mm
Cable type	Ethernet dual-core cable
Cross section	0.13mm²&0.14mm²
Outer Stripping length	6~10mm
Inner Stripping length	0.1~4.0mm
Crimp Force	2T
Stroke	40mm
CT	6S
Air Source	5~6Bar
Noise	≤75 dB
Power Supply	AC380V/50Hz
Dimension	L9600×W1300×H2250mm

## HBQ-961 AUTOMATIC PROCESSING MACHINE FOR HV CABLES



### Introduction

HBQ-961 is designed to provide efficient, accurate and reliable wire harness processing solutions. Design mode integrated with flexibility, modular, automation and customization, it can meet the different process by adjusting the module position, increasing or decreasing the module, which greatly reduces the equipment cost, improves the production efficiency, and provides customers with a more flexible production mode.

### Features

- **Flexibility:** with this core advantage, it can adjust the equipment layout according to different needs and different products
- **Modularity:** The modular design makes the automatic line have strong scalability and maintainability.  
The main functional modules are designed with standard interfaces, which is convenient for users to add, subtract and replace modules. the modular design also contributes to the rapid installation and adjustment , which greatly reduces the preparation time.
- **Automation:** With advanced control system and sensor detection technology, the wire processing is realized automatically, which not only improves production efficiency, reduces labor costs, but also greatly reduces the influence of human factors on product quality.
- **Customization:** we provide customized services according to the needs of customers, the layout and function modules are customized to ensure that the equipment meets the production needs. At the same time, we also provide customized production and process guidance to get efficient production.

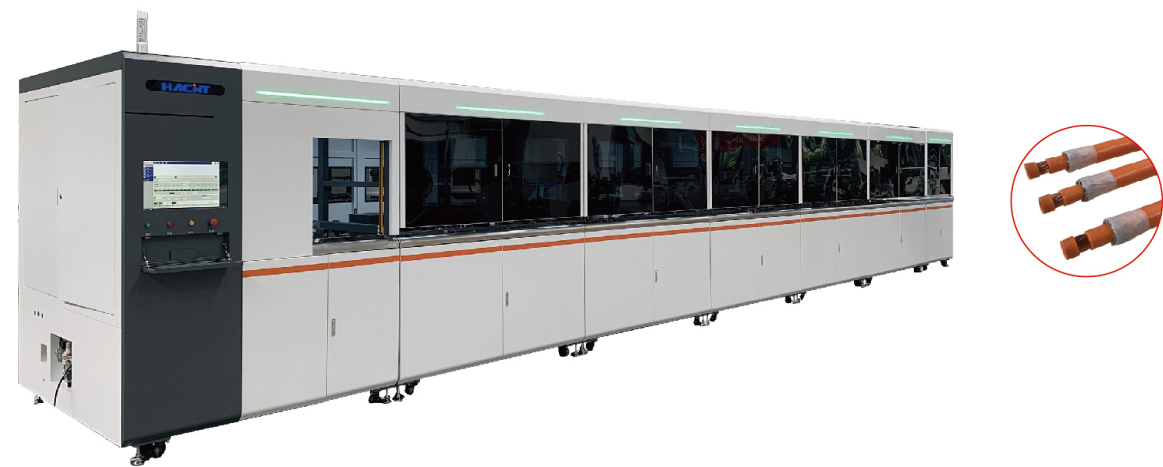
### Specifications

Cable type	HV Cables
Function	Optional & customized functions: stripping, foil remover, shield cutting, shield folding back, crimping, welding, insertion, housing assembly, visual inspection, etc.
cross section	2.5~16mm², 25~95mm²
Stripping range	5~60mm
Foil Removing length	5~60mm
Shield folding back length	5~20mm
Shield Cutting length	5~55mm

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



HBQ-428B NEW ENERGY CABLE PROCESSING MACHINE



Introduction

HBQ-428B Wire Processing Machine integrates the latest design with outer stripping, cutting aluminum foil, cutting shield mesh, shield folding back shield mesh, inner stripping, CCD visual detection, wrapping paper tape and other work stations, to achieve automatic processing, detection, cutting for the new energy industry.

With modular design for control system, the delivery time is greatly shortened, scalability and wide applications can meet the needs of different customers.

Features

- **Automation:** automatically process, detect, cut and sort for each process;
- **Modular:** with mechanical and electrical system modular designed, the delivery time can be short;
- **Humanization:** the operation interface is intuitive and easy to understand and operate;
- **Customization:** Custom solutions provided according to different needs.

Specifications

Wire Type	Coaxial high voltage shield wire
Wire Cross Sections	2.5~16mm², 25~95mm²
Outer Stripping Range	5~60mm
Foil Removing length	5~60mm
Shield Cutting length	5~60mm
Shield folding back length	5~20mm
Inner Stripping Range	5~60mm

Note:

1. 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;

2. Standard with a set of wire diameter tooling, if any other wires, please order separately.

The above processing data is standard, samples should be evaluated according to the specific products.

HBQ-433 CUTTING MACHINE



Introduction

HBQ-433 high-precision wire cutting machine adopts the smart mechanism, flexible and intelligent control system to exactly cut to length for large square wires.

It is a more cost-effective wire cutting equipment for different kinds of wire length&outside diameter, provides customers with neat and accurate cutting.

Features

- With color of industrial gray, the machine outlook is simple and generous;
- quick change accessories
- Easy to adjust the cutting length;
- Independent setting of production parameters suitable for diversified production;
- Friendly HMI, more intuitive graphics for visibility and operability;
- Articles can be set to quick change product types.

Specifications

Type	HBQ-433
Wire type	battery wire, new energy high voltage wire
Outer Diameter	φ 4~20mm
Cutting Length	150~6000mm
Cutting Accuracy	± 1%mm
Power Supply	AC380V/50Hz
Power	3kW
Dimension	L7500mm × W850mm × H1900mm
Weight	1500Kg

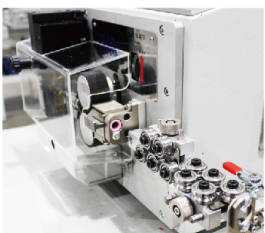
HBQ-041C AUTOMATIC STRIPPING MACHINE

Introduction

This machine is designed for cutting & stripping. With fast and precise cutting and stripping, simple debugging, easy operation, this machine meets the demands of variable wire processing and fast production of full and half stripping.



Optional wire deposit module



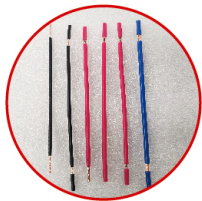
Optional wire straightener



HBQ-041C automatic stripping machine

Features

- PLC control touch screen for stable performance and easy use;
- Fast stripping and arbitrary setting of the wire length and the stripping length;
- Individual setting of the speed of the feeding, cutting and stripping for the best stripping;
- Setting of total quantity, bundle number, time delay;
- Servo control for high precision and long service life;
- Processing data of 500 different wires;
- Imported blades for durable service;
- Standard safety cover for safe production;
- Air-blowing for blade;
- Peripheral interfaces for Take-up machine and inkjet printer.



Specifications

Type	HBQ-041C	Power	800W
Wire Cross Sections	0.3~6mm²	Stripping Length	Front end stripping length 1~47mm Rear end stripping length 1~47mm
Control Mode	Touch screen and press button		
Cutting Accuracy	±(0.2%L + 0.2) , "L" refers to the wire length		
Power Supply	AC220V/50Hz	Wire Outer Didmeter	6mm
Cutting Length	Short stripping: less than 55mm,the length of the rema ining insulation wire skin in the middle is more than 2mm Standard stripping: wire length is more than 55mm, and the length of the remaining insulation wire skin in the mid dle is more than 51mm	Dimensions	L475 × W412 × H300mm
		Weight	46kg

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

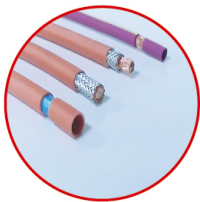
HBQ-421 AUTOMATIC STRIPPING MACHINE

Introduction

HBQ-421 is newly independently designed for shielded wires. which is mainly used for the processing of EV high voltage wires. communication wires and charging piles wires.This machine adopts the servo control system to realize the automatic producon of the feeding cutting, stripping and insulation, etc. It is an automated, flexible and precise wire harness manufacturing integrating control modes such as optical, electronic, and mechanical system.

Features

- ①: Cut off
- ②: Window strip
- ③: Unshielded strip
- ④: Full and part strip each side
- ⑤: Multi-step strip



Specifications

Wires	Battery cable, shield cable, multi-cores cable
Function	Cut down, multi-strip, multi-step strip, cutting, unshielded strip (Cross cut function customizable)
Cutting Length	160 ~ 999999mm
Cutting Accuracy	±(0.2%L +1)mm
Stripping Length	Left 130mm, right 260mm
Wire Cross Sections	6~120mm²
Wire Outer Diameter	6~25mm
Power/Air Supply	AC380V/50Hz/5kW/0.5~0.7MPa
Dimensions	L1460 × W700 × H1500mm
Weight	700kg
Mark	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 is mainly used for processing new energy, battery and sheathed wire. This machine adopts touch all-in-one PC computer and servo control system and wire feeding automatically adjust the belt, to provide feeding cutting, multilayer rotary stripping, ensure high precision and stable quality.

Features

- Modular structure, providing more optionals;
- With touch control all-in-one computer to facilitate the expansion of MES and other functions;
- Processing options available for rotary cutting blade, V-shaped blade, arcblade and others;
- Wire feeding, cutting and stripping speed can be set independently to achieve best stripping;
- Processing data for up to 500 kinds of different specification wires.



Specifications

Wires	Battery wire, multi-layer shielded wire, multi-core wire
Function	Cutting off, multi-step stripping, full or partial stripping
Cutting Length	70 ~ 99999.99mm
Cutting Accuracy	± (0.2%L+1)mm
Stripping Length	Left 100mm, right 135mm
Wire Cross Sections	Unshielded: 1~35mm², shielded wire: 1~25mm²
Wire Outer Diameter	2~12.5mm
Feeding Speed	4m/s
Power Supply/Air Supply	AC380V/50Hz/4kW/0.5~0.7MPa
Dimensions	L1300 × W830 × H1440mm
Weight	330kg
Mark	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

The HBQ-429 is a motorised stripping machine with a cable cross-section range of 0.05 to 6 mm² and a maximum outer diameter of 6 mm. It can process different cable sizes without any mechanical adjustment. The operator simply selects the required cable size via the touch screen and the machine is ready to process it, with the corresponding parameters already stored in the program memory. When the end of the cable touches the sensor, the machine starts the stripping process.

Features

- **Compact design**  
The machine is compact, light and can be moved and placed by one person;
- **Diversified production**  
The machine can be used for the production of different cable sizes;
- **User-friendly operation**  
Open production parameter setting window, multiple recipe setting and storage function for quick production changeover;
- **Operational safety**  
Fully protected production mode for safe operation.  
The interface is designed with multi-level password and multi-layer authority management to ensure that no important data is lost or changed;
- **Multi-interface transmission**  
The software can be upgraded or backed up using a wireless network or USB.



Specifications

Wire Cross Sections	0.05~6mm²	Program Capacity	500 pieces
Maximum Outside Diameter	6.0mm	Nterface Type	USB, wifi ( optional )
Diameter	0.01mm	Noise	<70 dB (A)
Length	0.1mm	Power Supply	AC 220V/50Hz 350W
Start Switch	Automatic trigger sensor	Dimensions	L400 × W150 × H250mm
Stripping Length	3~40mm ( Standard ) , 0.5~40mm ( Cutting )	Weight	12.5kg
Stripping Blade Type	V or R type		

HBQ-430 SEMI-AUTOMATIC STRIPPING MACHINE  
FOR COAXIAL WIRE



Introduction

HBQ-430 is a high-precision semi-automatic coaxial wire stripping equipment, it adopts synchronous belt transmission, ball bearing, screw drive, patented specific positioning device developed by Hacint, no need to re-adjust the blade during changing the tools. With Menu system, it's convenient to operate, and can store 300 kinds of processing data, and set maximum nine layer, small size and the weight, which is more convenient to move.

Features

- **Small size**  
Small size and light weight, it's easy to move and place;
- **Compatible**  
Adapt to different specifications of the cable diversification of processing and production;
- **Friendly**  
Open production parameter setting window, multi-formula setting storage function, convenient for rapid production change call;
- **Safe**  
Full protection production mode to ensure operation safety;  
Interface multi-level password multi-level authority management design, to ensure that important data is not lost changes;
- **Multiple interface transmission**  
Software upgrades or data backups can be performed using USB.

Specifications

Type	HBQ-430	Drive Mode	Motor \ Ball screw drive
Dispaly	Touch screen	Stripping Mode	3 pieces of rotary blades
Wire	Coaxial Wire	Stripping Layer	9 layers
Display Interface	LCD 95mm × 50mm	Blade Material	Tungsten steel
Power Supply	AC220V/110V 50/60Hz	Environment Temperature	-5~45℃
Power	1500W	Noise	65dB
Stripping Length	1~40mm	Storage	300 kinds of wire processing datas
Stripping Accuracy	0.1mm		
Wire Cross Sections	ø2.0~7.8mm	Diensions	L525 × W130 × H320mm
Depth Accuracy	0.01mm	Weight	23kg

HBQ-422A ROTARY STRIPPING MACHINE

Introduction

HBQ-422A is a semi-auto machine for the rotary cutting and stripping of the coaxial cables, which is completely suitable for processing of EV high voltage wires.

Features

- **Miniaturization Design**  
Small, light and portable;
- **Diversification Product**  
Adapt to the diversified processing of different cable sizes;
- **Simplified Parameter Setting**  
Open production parameter settings and various articles saving for SMED;
- **Safety**  
Fully protective production mode for safe operation;  
Multi-level confidential and rights management design for date safety.



Specifications

Type	HBQ-422A	Cutting Accuracy	0.01mm
Wire Diameter (coaxial)	3~18mm(coaxial cable)	Stripping Accuracy	0.01mm
Wire Cross Sections	Unshielded: 2.5~70mm², Shielded wire: 1~50mm²	Power Supply	AC220V/50Hz
		Power	600W
Stripping Length	Max 100mm	Dimensions	L816 × W270 × H418mm
Stripping Steps	9 level (max)	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.

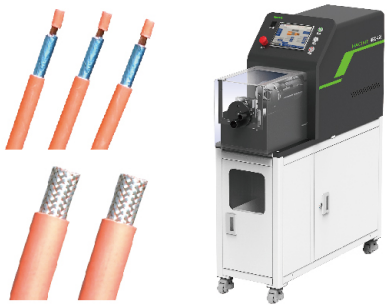
HBQ-426 ROTARY STRIPPING MACHINE

Introduction

HBQ-426 is a new semi-auto machine for the rotary cutting and stripping of the coaxial cables, which is completely suitable for processing of EV high voltage wires. It is applicable for the coaxial cable, multi-core cable and single-core cable.

Features

- **Wire Range**: Wire diameter 5~30mm, stripping length is up to 200mm;
- **High Accuracy**: Adopt 4 blades for clear and accurate stripping;
- **Long Service Life**: Moto drive adopts servo control, which makes high accuracy and long service life;
- **Easy Operation**: PLC control mode and touch screen for stable and easy operation;
- **Quick Change**: Various articles saving for SMED;
- **Safety**: Fully protective production mode for safe operation;
- **Movability**: With a mobile base, it is easier to move when changing wires.



Specifications

Type	HBQ-426	Power Supply	AC 220V/50Hz
Wire Outer Diameter	5~30mm (diameter)	Article Storage Capacity	100 types cable processing data
Wire Cross Sections	4~120mm² (Shielded wire)	Trigger Mode	Pedal
Stripping Length(max.)	200mm	Power	1200W
Stripping Steps(max.)	9 level	Dimensions	L1190 × W400 × H1335mm
Cutting Accuracy	0.01mm	Weight	220kg
Stripping Accuracy	0.01mm		



HBQ-425A SHIELDING BRAID CUTTING MACHINE

Introduction

The HBQ-425A shielding mesh cutting machine uses a compact mechanism and a flexible and intelligent control system to cut shielding mesh at a fixed length. It is a shielding mesh cutting machine that can adapt to a wide range of cable types, has a powerful cutting function and provides more added value to customers.

Features

- The body is clean industrial black with a simple overall structure;
- Large cutting length orientation;
- Autonomous setting of production parameters for diverse production;
- User-friendly human-machine interface with more intuitive graphic screens for improved visibility and operability;
- Up to 100 groups of process parameters can be stored.



Specifications

Type	HBQ-425A	Power Supply	AC 220V/50Hz
Wires	Coaxial high voltage shielded cable	Power	1500w
Wire Cross Sections	2.5-95mm²	Dimensions	L1180 × W500 × H1240mm
Cutting range	5-90mm	Weight	337kg

Note:

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

2.Standard with one set tooling for a wire cross section, if any other wires, please order separately.

HBQ-225B NEW ENERGY CABLE PROCESSING MACHINE

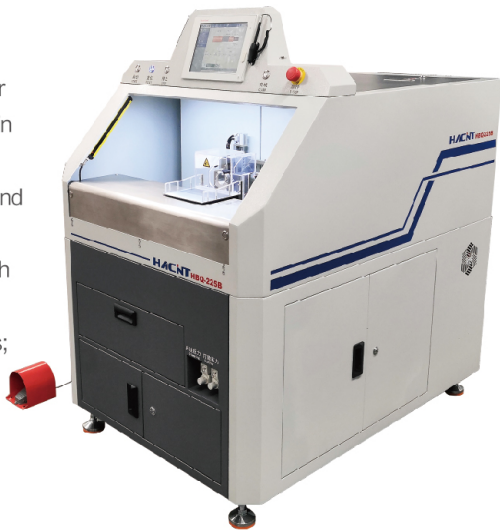
Introduction

The HBQ-225B new energy cable processing equipment adopts a smart mechanism and intelligent control system to achieve fixed length circular stripping of the inner and outer insulation of the wire, fixed cutting length and turn over the shielding mesh. It is a multi-functional equipment that adapts to a wide range of cable types and meets different process requirement.



Features

- Strip insulation wire(without aluminum foil), cut shielding mesh, turn over shielding mesh, and strip internal insulation wire for high-voltage cable in one cycle. Each function can be combined and switched freely;
- Contact triggered and two handed start, well protect personnel safety and effectively ensure length and size;
- Humanized HMI, simple operation, more intuitive graphical display, both Chinese and English version;
- With options of wire diameter detection function to avoid incorrect wires;
- With Smart size, quick and reliable product quality;
- It's extensible and customized.



Specifications

Type	HBQ-225B	Switch	button or foot switch
Applicable Cables	Coaxial high-voltage shielded wire	Power Supply	AC220V/50Hz
Wire cross section	3-95mm²	Power	3.5kW
Stripping Length	5-80mm	Dimension	L1420 × W930 × H1530mm
Cutting Length	5-80mm	Weight	670kg
Over-turn Length	5-20mm		

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 NEW ENERGY CABLE PROCESSING MACHINE



Introduction

HBQ-224 new energy wire harness processing six-in-one equipment has the functions of inner and outer insulation stripping, sleeve ring, screen mesh cutting and turning over, visual inspection, etc., to meet the customers’ need. The operation is controlled by industrial computer, and the user-friendly operation interface is easy to learn and operate, with good economy and practicability.

Features

- **Safety**  
Feeding by intelligent induction trigger positioning, more safe and accurate;
- **High efficiency**  
Each station automatically operates, high production efficiency;
- **Flexibility**  
Different products can be compatible by quick changing the tooling;
- **Easy to operate**  
up to 100 sets of process parameters can be stored;

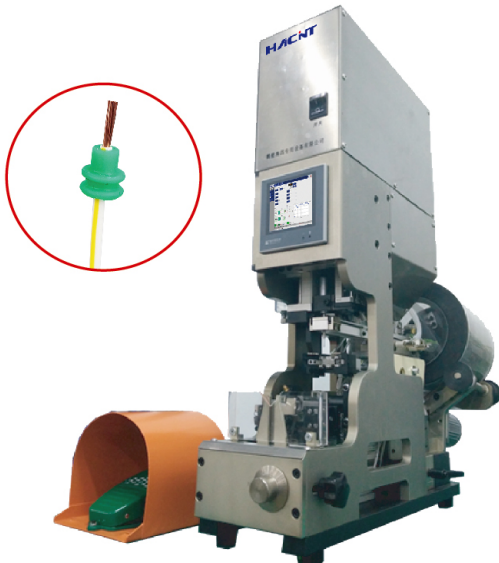
Specifications

Type	HBQ-224
Wire	Coaxial high voltage shielding wire
Function	strip-insert ring-cut braid-visual inspection-turn over braid-strip inner insulation(CDM core detection function can be optional at the stripper station)
Wire Diameter	2.5~16mm², 25~95mm²
Out Stripping	5~60mm
Cut Shielding Braid	5~55mm
Turn Over Braid	5~20mm
Power Supply	AC380V/50Hz
Power	10kW
Dimension	L3700×W1700×H2100mm
Weight	3000kg

FSM-001 SEAL LOADING MACHINE

Introduction

FSM-001 is the semi-automatic machine for seal loading manually, inserting the seals to the stripped wire ends. Different from traditional processing, FSM-001 achieves automatic feeding and loading, which not only increases efficiency and the quality, but also reduce working intensity.



Features

- **Operation interface**: Visualized operation for single step, reset, timing, 1/0 detection and setting the parameters;
- **Automatic feed**: Roller rotation for automatic feed, quiet and energy saving;
- **Easy operation**: There are two trigger modes, pedal or timing, to meet different customer needs;
- **Rail features**: Seal rail can be changed separately, which is quick and saves the cost.

Specifications

Seal Sizes	9×10mm (diameter*length) (Max)	Power Supply	AC220V/50Hz
Inner Diameter (Seal)	0.6~3.0mm	Air Supply	0.5~0.6MPa
Seal Length	15mm (Max)	Power	100W
Outer Diameter(Wire)	1~3.6mm	Dimensions	L640×W220×H640mm
Speed	60pcs/min (Max)	Weight	60kg

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



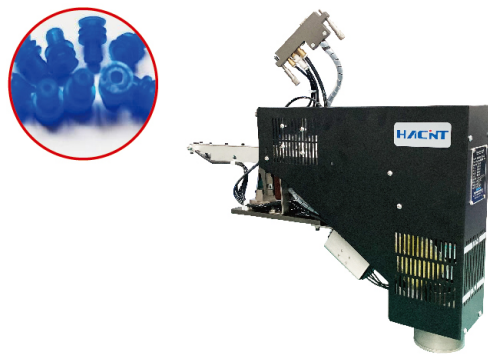
## WPP SEAL APPLICATOR

### Introduction

WPP seal applicator can be as a feeding module that can automatically filter and arrange seals. It is designed separately for each type of seal. The modular docking structure is perfectly compatible with a variety of seal loading machines.

### Features

- **Quick change mechanism:** Easy change and saving time;
- **Strong resistance to rust:** Bright silver for the rail and spray for the box;
- **High compatibility:** Perfectly fit all the european seal works-tations in the market;
- **Dual-sensors:** Automatic alarm for no seals in the box and Automatic blow for the seal block on the rail.



### Specifications

Seals	Regular, mini, Ultra large, Hard cover, long tail, Special shape seals
Voltage	24V
Accessories	3 needles, 2 tubes, 1 jaw
Feed Type	Vibration feed
Sensor	Fiber

## FSY-001 SEAL DEOILER

### Introduction

FSY-001 is an oil cleaning device specially designed for seals. When too much oil affects the feeding of seal kit, this machine could help to solve. it can be operated regularly, and the processing does not need to look after it; it is small in size and saves space; it is light in weight and easy to move.



## HBQ-Z209B BLIND SEAL INSERTION MACHINE



### Introduction

HBQ-Z209B blind seal insertion machine adopts integrated platform, double servo drives and industrial PC system, to achieve the accurate and quick insertion, instead of manually inserting housings. which is well suitable for variety articles and large demand.

### Features

- Integrated platform with double plugging configuration and one host station only;
- low noise and less air consumption; with roller feeding;
- Imported vibration motor to provide strong and stable vibration;
- Optional sprinkler head, achieve insertion maximum four kinds of plugs without change modules;
- No need to change tools, easier to change products;
- 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	Power Supply	AC220V/50Hz
Processed Products	Axisymmetric plug	Power	3000W (max)
Speed	inserting speed < 1S one hole	Dimensions	L1200×W1000×H1800mm
Accuracy	± 1mm	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-Z215B PLUG INSERTION MACHINE



Introduction

HBQ-Z215B plug insertion machine can automatically assembly plug and housing, it can be compatible with a variety of housings, insert soft plug and special shaped plug into housings, and can update the design according to different customer needs to provide customized solutions.

Features

- Modular design, quick change housings without tools;
- With ammunition magazine to store housings and anti-stay design, only one person needed to operate machines;
- Automatic separate materials after visual inspection of finished products, to prevent defective products from flowing out;
- Optional with automatic feeding by vibrating plate, the robot will automatically take;
- With modularized vibrating plate to feed, to get fast and stable discharge;
- Friendly HMI, intuitive graphics improve visibility and operability;
- Process article copying, coordinate data can be freely edited to quickly create the process;
- permission management to ensure that important data not lost and changed;
- New appearance design, the overall structure is simple and generous;
- Special-shaped plug and plug rod are matched at will, and the types is compatible without limitation.

Specifications

Type	HBQ-Z215B	Power supply	AC220V/50Hz
Store Housings	12~16	Air Supply	0.5~0.7Mpa
Housing type	undefined	Power	2500W
Plug type	Shaped plug & Soft plug	Dimension	L1500×W1300×H1800mm
Speed	0.7S/ hole	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-371 HEAT-SHRINK MACHINE



Introduction

HBQ-371 is the latest generation of conveyor type heaters, which is used to shrink the heat shrinkable tube to wires. Belt conveyor provides continuously work.

Features

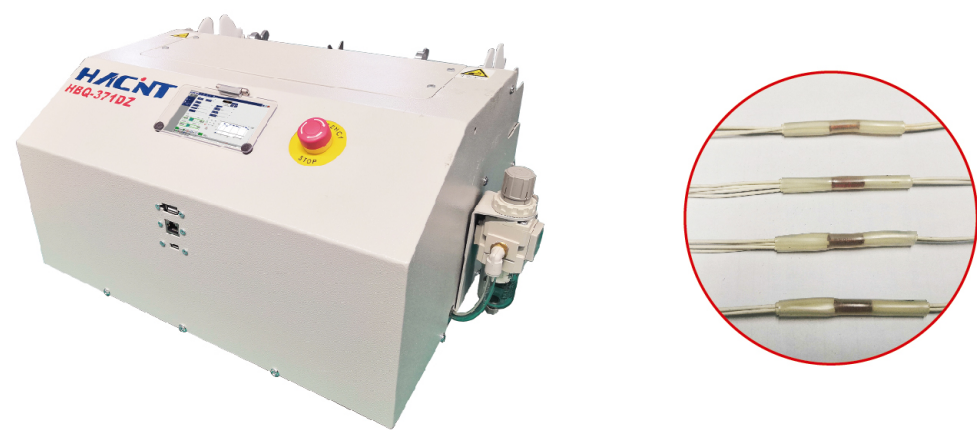
- **Comfortable**  
Exquisite and compact appearance;  
Beautiful and professional human-computer interface makes it easy to use.
- **Safe**  
Real-time temperature measurement on heating area, with stable control  
Conveying reverses when under or beyond the required temperature.  
Warn and protect itself the moment conveying fails.  
Stop heating when in standby for a long time.
- **Completed**  
Forced air cooling after being shrunk;  
MES available;  
Customization of auxiliary tooling for Long wires is available.

Specifications

Type	HBQ-371	Heating Temperature	650℃ ( max )
Wire Outer Diameter	13.5mm ( max )	Power	2.1kW ( max )
Power Supply	AC220V/50/60Hz/10A	Belt Speed	3~50mm/s
Current of Fuse	20A	Dimensions	L1040×W220×H386mm
Tube Length	90mm(Default)/100mm(Optional)	Weight	50kg
Heating Area Temperature	Real-time measurement		



## HBQ-371DZ HEAT-SHRINK ALIGNING MODULE



### Introduction

HBQ-371DZ is an automatic aligning module for heat shrinkable tubes, which used to ensure that the heat shrinkable tubes and wiring harness joints in correct position before feeding in. It replaces the manual work, makes the position of heat shrinkable tubes more accurate, and improves the heat shrinking quality and efficiency.

### Features

- **Intelligent and reliable**  
Detect the length of heat shrinkable tube automatically;  
Adjust the position of heat shrinkable tube(when the diameters of the two sides of the harness are very different).
- **Efficient and accurate**  
Use a program to adjust the spacing of the electrodes;  
Use a program to adjust the position of heat shrinkable tube.
- **Safety assurance**  
Ensure the positions of welding point and heat shrinkable tube respectively;  
Ensure operation safety with user-friendly protections.

### Specifications

Type	HBQ-371DZ	Tube Diameter	25mm(max)
Diameter	0-13.5mm	Wire Length	450mm(min)
Power Supply	AC220V	Dimensions	L400 × W445 × H230mm
Tube Length	20-100mm	Weight	20kg

### Related Products / Accessories

HBQ-371 Heat-shrink Machine

## HBQ-372 HEAT-SHRINK MACHINE



### Introduction

HBQ-372 is used to heat and fix the heat-shrinks on the ends of the wires. It could be used for various types of ends, such as end with heat shrinkable tube, end with sheath, end with terminals and short wires etc. Caterpillar feeding makes the machine continuous to run.

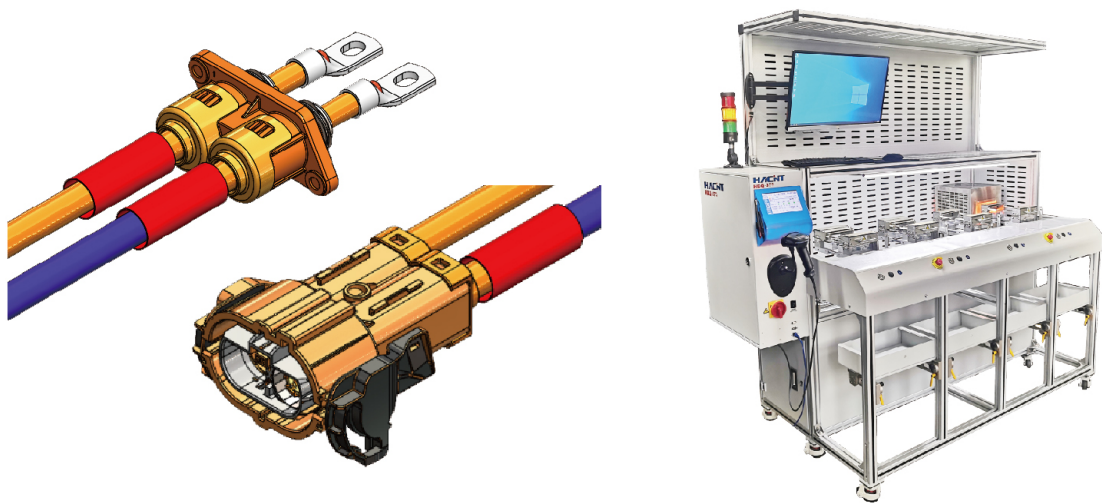
### Features

- **Strong compatibility**  
Diverse types: End with heat shrink/End with sheath/ End with terminals or Short wires;  
Various adjustment: Adjustable distance for wire ends Adjustable space for short wires/Adjustable pressure for long wires.
- **Pretty Appearance**  
Exquisite and compact appearance;  
Beautiful and professional HMI makes it easy to use.
- **Safety**  
Reversing feed when the temperature is under or beyond the limits;  
Warn and protect the machine when the conveying fails;  
Stop heating when the machine is in the long standby time;  
Mandatory wind cooling after shrinking.
- **Extendable Function**  
Optional networked function is connected to MES;  
Auxiliary tooling is customizable for long wires.

### Specifications

Type	HBQ-372	Tube length	90(Default)/100mm(Optional)
Wire Outer Diameter	13.5 ( max )	Power	3.5kW ( max )
Power Supply	AC220V/10A	Belt Speed	3-50mm/s
Current of Fuse	20A	Dimensions	L1071 × W332 × H438mm
Heating Temperature	700℃ ( max )	Weight	75kg

## HBQ-373 HEAT-SHRINK MACHINE



### Introduction

HBQ-373 is a machine for heat shrinking tube onto the wire harness, perfectly suitable for big wire size. Such as new energy housing cable, battery cable, Bond strap.  
Continuous operation is ensured by multiple stations, customizable tooling to protect non-heat-shrinkable cable and housing.

### Features

- **High Efficiency**  
Different styles: housing/bond strap;  
Multiple Stations: four stations can ensure continuous operation.
- **Safety**  
Adjustable tooling, customizable, can protect the safety of non-heated areas.
- **Supports expansion**  
MES networking available.

### Specifications

Type	HBQ-373	Heating Temperature	320°C(max)
Wire Cross Sections	0~120mm <sup>2</sup>	Power	7kW(max)
Power Supply	AC380V 18.5A	Belt Speed	4~50mm/s
Current of Fuse	30A	Dimensions	L1830 × W900 × H1250mm
Tube Length	160mm ( max )	Weight	260kg

### Related Products / Accessories

Optional accessories: tooling can be customized

## HBQ-374A HEAT-SHRINK MACHINE



### Introduction

HBQ-374A heat shrink machine is crawler-type that can work with ultrasonic welding machine, which can realize automatic welding/heat shrink tube centre alignment/heat shrink efficiently.

### Features

- **Powerful**  
Hight Integration welding + centering align + heat shrink;  
It's high efficient with continuous operation;
- **Friendly**  
It is exquisite and simple;  
Professional HMI, easy to operate;
- **Extendable**  
Can connect to MES;  
Auxiliary tooling can be customized for long cable.

### Specifications

Type	HBQ-374A	Length Of Heat Shrink Tube	60max(customizable)
Cable	0~10m(customizable)	Heating Plate Temperature	700°C(max.)
Power Supply	AC220V 10A	Power	2.1kW ( max, excluding welding machine )
Fuse	20A	Speed	3~50mm/s
Weight	110kg	Dimension	L1450 × W550 × H710mm

### Relate Product / Optional

Optional: Long line auxiliary tooling



## HBQ-068 TWISTING MACHINE



### Introduction

HBQ-068 is mainly used in the field of wire harness processing and double wire twisting. The two work stations of HBQ-068 work alternatively, so the operators can clamp wires on one workstation while the other one is perform twisting and this increases the production efficiency.

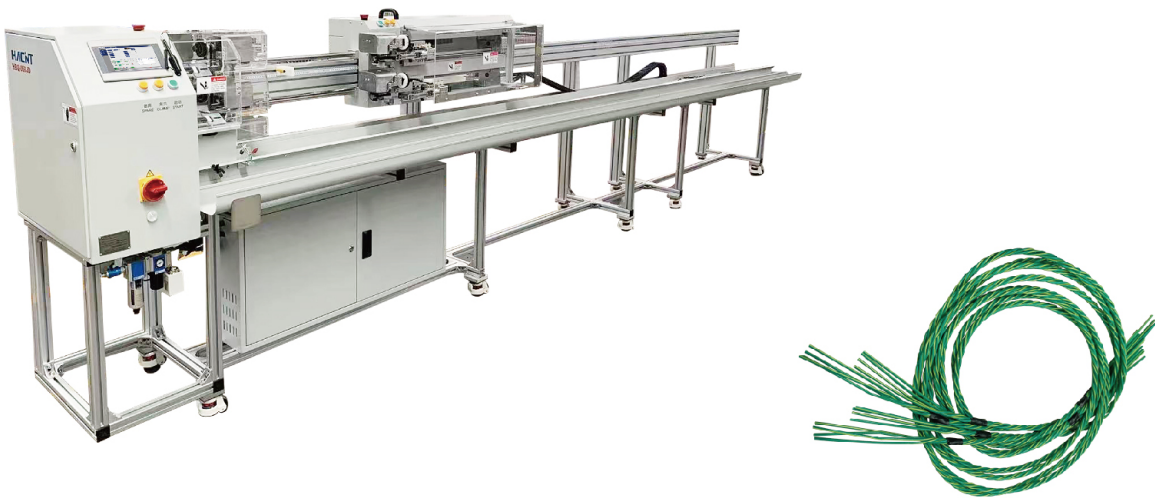
### Features

- **High efficiency**  
Double workstations can work continuously and alternately, clamping and twisting simultaneously The speed is up to 3000r/min;
- **Safe**  
Full protection design of safety cover for front and rear;
- **Extension**  
Support MES networking.

### Specifications

Wire Cross Sections	0.13~4mm <sup>2</sup>	Pitch Accuracy	± 10%
Twisting Length	150~8000mm (Customizable)	Power Supply	AC220V
Twisting Speed	3000r/min (max)	Air Supply	0.5~0.6MPa
Untwisted Length	30~100mm	Power	500W(Alternate mode) 900W(Single action mode)
Twisting Number	2/3pcs	Dimensions	L3300 × W650 × H1400mm (L can Customizable)

## HBQ-068JD TWISTING MACHINE



### Introduction

HBQ-068JD mainly used in the field of wire harness processing and double wire twisting. The two work stations of HBQ-068JD work alternatively, so the operators can clamp wires on one workstation while the other one is perform twisting and this increase the production efficiency.

HBQ-068JD twister adds a function that it can avoid the twisted wire loose. There can wrap a loop of tape around both ends of the twisted wire to increase the twisted wire quality.

### Features

- **Intelligence**  
The length before twisted calculate automatically according to length after twisted, pitch and others parameters, it can also adjust as the actual demands;
- **Safety**  
The front gripper for holding the harness has safety cover and also the back one;
- **Efficiency**  
Double workstation can work continuously and alternately, clamping and twisting simultaneously;  
Even with tape wrapping mode there is no change in the operation and can work with high efficiency 1m wire harness, 550pcs/h, reference value.

### Specifications

Type	HBQ-068JD	Wire Cross Sections	0.13~2.5mm <sup>2</sup>
Power Supply	AC220V	Twisting Length	410~2300mm ( customizable )
Air Supply	0.5~0.6MPa	Twisting Speed	3000r/min ( max )
Pitch Accuracy	± 10%	Twisting Number	2/3 pcs
Tape Material	PVC	Tape Specs	Length:9 ,outer diameter:80, inner diameter:38 (customizable)
Weight	200kg	Dimensions	L3300 × W650 × H1400mm

## HBQ-360 TWISTING MACHINE



### Introduction

HBQ-360 is mainly used to produce twist pairs in the fields of wire harness processing. With a special design to increase the production efficiency of twisting wires, HBQ-360 can process the wires with or without terminals. Because of the servo system control, the twisting process is carried out with high speed and precision. the four work stations can work simultaneously in order to increase the production efficiency.

### Features

- **High-efficiency**  
Four stations can work at the same time to improve work efficiency;  
Automatically Clamp wires, no manual operation.
- **Intelligent**  
Automatically adjust pull force for different groups;  
Automatically adjust pull force for different wires.
- **Accurate**  
Four groups of wire harnesses are straightened independently, and the clamping error can be eliminated;  
During the process of twisting, the torque is constant and the pitch is stable.

### Specifications

Wire Cross Sections	0.13~4mm <sup>2</sup>	Pitch Accuracy	± 10%
Twisting Length	150~8000mm (Customizable)	Power Supply	AC220V/50Hz
Twisting Speed	3000r/min (max)	Air Supply	0.5~0.6MPa
Untwisted Length	30~100mm	Power	900W
Twisting Number	2/3pcs	Dimensions	L3305 × W715 × H1400mm

## HBQ-361 FOUR-WIRE TWISTING MACHINE



### Introduction

HBQ-361 Four-wire Twisting Machine is mainly used in wire harness processing, can twist wires and automatic drawstring of long twisted wire, It's an automatic equipment for customers to reduce labor intensity and process long wires.

### Features

- **Efficient**  
Four twisting stations can rotate two ends at high speed and same time to improve efficiency;  
Automatic pull wire at the back end to reduce labor intensity;  
Automatic clamp wires with sensors, no need to operate button manually;
- **Intelligent**  
Automatic adjust pull force for different wire groups;  
Automatic adjust pull force for different wire diameters;  
Automatic pull wire brake and clamp;
- **Accurate**  
The four groups of wire harnesses are straightened independently and no clamping error  
During twisting, the torque is constant and the pitch is stable.  
Pull the wire in place and accurate parking, accurate clamping.

### Specifications

Type	HBQ-361	Wire size	0.13~2.5mm <sup>2</sup>
Power Supply	AC220V	Twist length	900~2300mm ( customizable )
Air Source	0.4~0.6 Mpa	Speed	3000r/min ( max )
Pitch Accuracy	± 10%	Wire number	2 pieces
Weight	330kg	Dimension	L3300 × W980 × H1400mm



## HBQ-362 POINT TWISTING MACHINE



### Introduction

HBQ-362 point tape & twisting machine is mainly used in the field of wire harness processing, with automatic wire feeding, point twisting function.

with the front and rear double servo twisting, the rear end using servo system for high efficiency & precision wire feeding, to achieve 100% qualified wire feeding.

Optional function to open and close the taping according to demand, to ensure the quality of the wiring harness after twisting, and reduce the work intensity.

### Features

● **Efficient**

Four stations can work at the same time to improve work efficiency;  
Automatic wire pulling and doubling at the back end to reduce labor intensity;  
Automatic point tape after twisting;  
Automatic induction to clamp wires.

● **Intelligent**

Automatic adjust pull force of different groups;  
Automatic adjust pull force of different wire diameters;  
Wire feeding force will automatically match to different wire diameters;  
Pull wire in place, automatic coupling and accurate clamping.

● **Accurate**

The four groups of wire harnesses are straightened independently without any clamping errors;  
During twisting, the torque is constant and the pitch is stable;  
Automatic wire feeding and accurate positioning at rear end.

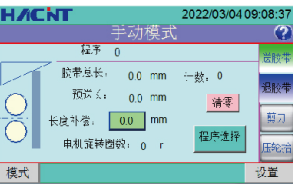
### Specifications

Type	HBQ-362	Wire Size	0.13~2.5mm <sup>2</sup>
Power Supply	AC220V	Twisting Length	900~2300mm ( customizable )
Air Supply	0.4~0.6 Mpa	Twisting Speed	3000r/min ( max )
Pitch Accuracy	± 10%	Twisting Piece	2 pcs
Tape Material	PVC	Tape Specification	W9mm, OD80mm , ID38mm(customizable)
Weight	480kg	Dimension	L3300 × W1320 × H1400mm

## HBQ-067 TAPE BUNDLER

### Introduction

HBQ-067 Tape Bundler is generally used to bundle, mark, and fixed to the harness.



User interfacer interface



Finished product



### Features

● **High efficiency**

With auxiliary clamping and automatic wire feeding, it's efficient and lower labor load;  
After bundling, automatically push wires in place( HBQ-067C Tape Bundler);  
The working cycle time can be 1.9s.

● **Intelligent**

All of the tape length, the pre-feeding length, the wire diameter and the number of strapping loops can be set conveniently;  
Optional with automatically wire sensed, and can automatically calculate the bundling length for different wires.

● **Net working**

Can connect to MES.

### Specifications

Type	HBQ-067	Tape Outer Diameter	170mm (max)
Power Supply	220V	Tape Inner Diameter	38mm/76mm(customizable)
Air Supply	0.5~0.6MPa	Tape Width	20~50mm
Winding Speed	Adjustable	Dimensions	L550 × W650 × H385mm
Bundling Range	1~10mm ( Diameter )	Weight	50kg

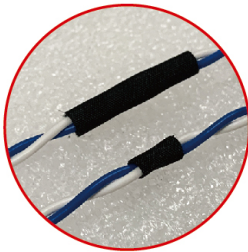
HBQ-340 TAPE BUNDLER

Introduction

HBQ-340 tape bundler is mainly used in the wire harness processing, which can bundle, mark and fix the wire harness. It can efficiently fix the point position of the wire harness.

Features

- **Elegant**  
Exquisite and concise compact appearance;  
Professional HMI makes it easy to operate;
- **Efficient**  
Simple and easy to operate, with high efficiency for continuous operation;
- **Flexible and customizable**  
The length of the adhesive tape and set length can be set;  
With short distance from the winding point to the end, customization is acceptable as well.



Specifications

Type	HBQ-340
Bundling Dia.	1.5-6mm
Tape Length	adjustable range ( 30-55mm )
Tape Width	9-25mm
Speed	adjustable
Distance To End	min 30 mm
Dimension	L428 x W258 x H370mm
Power Supply	AC220V/50Hz

HBQ-320 / 321 CABLE TIE GUN

Introduction

HBQ-320/321 Cable tie gun is a manual tool to bundle the cable ties tight and cut down the cableties in arry directions.

Features

- **Wide tension range**: 30~320N adjustable, 8-gear setting can adapt to different process requirements;
- **Tail length**: the need of 0~5mm tail length can be achieved by repla-  
cing different types of gun heads;
- **Gear adjustment**: 8-gear adjustable, minimum to 1/4 gear fine adju-  
stment, with locking function;
- **Comfortable handle**: beautiful curve in line with ergonomics, easy to  
hold;
- Long life Spring steel 58-RC for high hardness, good toughness  
and long life;
- **Mountable**: Two hanging mechanism (at the rear of gun body and the  
bottom of the handle).



HBQ-320

Specifications

Type	HBQ-320	HBQ-321
Step No.	8 step	8 step
Cable Ties Sizes	1.9~7.2mm	2.8~12.5mm
Turning Angle	360°	
Dimensions	L200 × W40 × H135mm	L194 × H141 × W36mm
Weight	255g	480g

Relate Products / Accessories

Option: gun head/blade replaceable



HBQ-321



HBQ-Z211 BUCKLE INSTALLATION MACHINE

Introduction

HBQ-Z211 buckle installation machine, is used for assembling the bake plug (snap) of the sheathing wire. In production, using this machine to assemble the sheathing wire products can play a good role in protecing the products during the assembly process. Smal size, high function, high efficiency, stable operation, high applicability and easy to operate and maintain.

Function

- Vibration plate loading:** automatic loading, with sensors at the head of the material path to detect the direction of the material, to ensure that there is no reverse material.
- Product assembly:** self-researched solution to protect the wire during the assembly of the sheathing wire, to ensure that the assembly process does not hurt the wire, and to protect the product performance of the back plug ( buckle ) with a small opening amplitude.
- Inspection of the finished assembly:** after the assembly is completed, the installation depth of the back plug ( buckle ) is inspected to ensure the quality of the installation.

Features

- **High installation efficiency:** an average of 8 seconds to install a back plug (buckle);
- **Small footprint:** high concentration of equipment, compact arrangement L1200mm, W980mm, H1800mm;
- **Easy to operate interface:** quick to get started, easy to operate, convenient and fast recipe adjustment;
- **Modular design, strong expansion capability:** can be adjusted according to customer needs, adaptable to different sizes of the same type of products.

Specifications

Type	HBQ-Z211
Power Supply	AC220V/50Hz
Power	2.2kW
Air Supply	0.5~0.7MP
Dimensions	L1200×W980×H1800mm
Weight	400kg



TLZ-4 ASSEMBLY LINE

Introduction

- The machine is a floor-standing, with the following features:
- Can be double-sided operated, workstations running smoothly, better rigidity;
  - Using frequency conversion device, stepless speed regulation can be realized;
  - Optional display screen, showing car model, planned and actual output;
  - Emergency stop device provided for operation;
  - Emergency Stop device provided for operation;
  - The working position can be increased or reduced at any time, easy to assembly;
  - Small space taking up.



Specifications

Type	TLZ-4
Power Supply	AC380V/50Hz
Speed Range	0.5 ~ 5m/min
Power	1.5kW
Workbench Length	Customs available upon request



TLZ-5 ASSEMBLY LINE

Introduction

The harness board is placed on the double-side support trolley, driven by the conveyor chain after the speed regulation by the inverter, the trolley moves according to the speed set by the process, and when it moves to the end of all the columns, it turns around outside the end to the first end of another column, and does the whole continuous ring operation.

Function

The working trolley moves on the track;  
With small size and simple assembly , the intermediate parts can be increased or reduced according to the process requirements;  
The start and stop of the trolley are quite smooth and reliable ;  
Board angle and running speed is adjustable;  
Equipped with a display screen to display the production quantity;  
with a document shelf, to place the work guide or manual conveniently.



Specifications

Dimension	L<=5000mm W<=1200mm Recommended: 2400 x 900mm, 3000 x 900mm, 3600 x 900mm, 4200 x 900mm customized according to requirement
Speed	844~4223mm/min, customized according to requirement
Speed Control	Frequency
Table Vertical Angle	Adjustable level: 50° 57° 64° 71°
Color	7035 gray, milky white, blue, customized according to requirement
Storage Cloth Material	Light blue rainproof silk cloth、PVC gridding cloth

TLZ-6 ASSEMBLY LINE

Introduction

The first wire harness table moves forward in A straight line under the drive of the variable frequency speed regulating drive device in column A, and pushes the other tables in turn until the end table completely enters the transverse translation station table;  
The signaling switch sends A signal to stop the drive in column A, and at the same time controls the lateral movement device to move it horizontally to column B.  
At the same time, the work table is also operated by the corresponding mechanism, according to the preset track in the process of transverse movement automatically replaced with A side or B side, and it is driven by the B column drive device to continue to move forward, so repeat, cycle running.

Function

Reasonable structure, easy maintenance, high strength and small size;  
Equipped with a display screen to show the production quantity, and each station is illuminated;  
With emergency stop, start device and alarm box (light) for each station;  
Modular combination can be increased or decreased and the specifications can be changed according to the process needs;  
with a document shelf, to place the work guide or manual conveniently;  
Board angle and running speed is adjustable.



Specifications

Dimension	L<=8000mm W<=1200mm recommended: 2400 x 900mm, 3000 x 900mm, 3600 x 900mm, 4200 x 900mm customized according to requirement
Speed	Push speed :15~50Hz 1008~3360mm/min Horizontal move speed : 50Hz 3054mm/min
Speed Control	Frequency
Table Vertical Angle	60°
Color	7035 gray, milky white, blue, customized according to requirement
Storage Cloth Material	Light blue rainproof silk cloth、PVC gridding cloth



TLZ-7 ASSEMBLY LINE

Introduction

The wire harness testing table is driven by the speed regulating drive device to carry out circular movement, which can realize continuous rotation, and the table rotates a station position within the set time, and the cycle continues. Intermittent rotation can also be achieved, the workbench stops after rotating an Angle within the set time, and continues to rotate after the operation time is completed and the cycle continues.

Function

The working trolley rotates along the middle spindle, running smoothly and with high safety;  
Board angle and running speed is adjustable;  
Each station is equipped with emergency stop, starting device, lighting, material rack, work instruction signboard  
Small size.



Specifications

Dimension	L<=1600mm W<=600mm ( two sides), W<=1100mm ( one side ) Recommended:1200 x 600mm, 1200 x 1000mm Recommended: 4 station、6 station、8 station
Speed	CT for each station: 20~60s adjustable
Speed Control	Frequency
Table Vertical Angle	60°
Color	7035 gray, milky white, blue, customized according to requirement
Storage Cloth Material	Light blue rainproof silk cloth、PVC gridding cloth

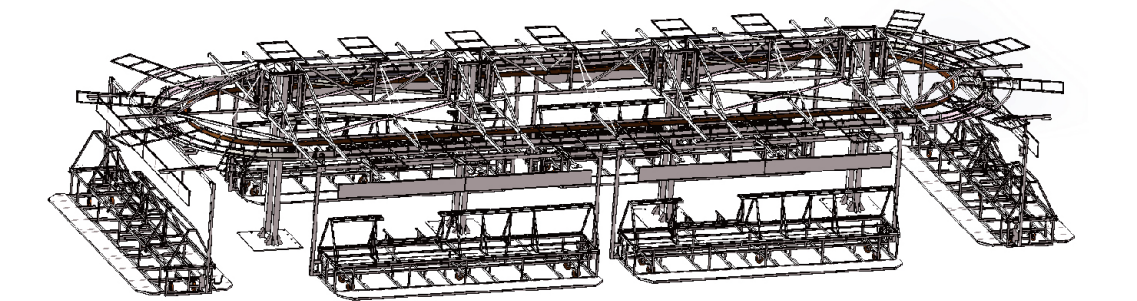
TLZ-8 ASSEMBLY LINE

Introduction

This is designed for the assembly and processing of larger layout and more complex wiring harness. The wire harness table is placed on both sides of the assembly line, driven by the upper conveyor chain after frequency conversion and speed regulation, the trolley moves on the ground according to the line speed set by the process, and the whole process does continuous circular operation.

Function

The transmission structure is placed above the trolley and does not affect other activities on the ground;  
The operator just moves with the assembly line trolley easily;  
At the end of the assembly line, the cross strengthening beam is added, and the pull rod is added in the middle to improve the bearing capacity and the structure is stable and safe.



Specifications

Dimension	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
Speed	Moving speed 15~50Hz 831~4154mm/min
Speed Control	Frequency
Table Vertical Angle	Recommended 60° for Type A H-type reserved plane mounting tool plate, can be customized
Color	7035 gray, milky white, blue, customized according to requirement
Storage Cloth Material	Light blue rainproof silk cloth、PVC gridding cloth



HBQ-G401B TORQUE WORKSTATION (VISUAL VERSION)

Introduction

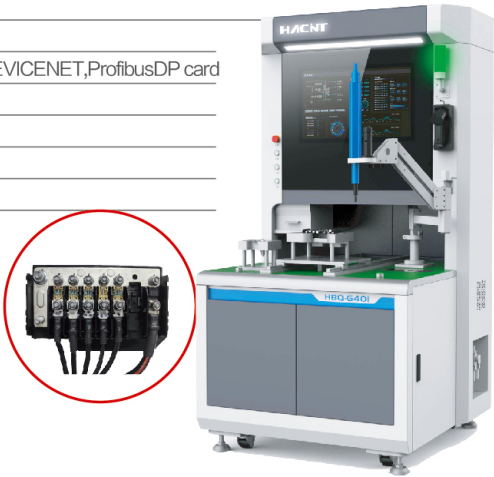
The machine is mainly composed by machine frame, canvas tray ,the balance arm, host computer, PLC, displayer and fixture. The fixture can be customized according to customer product appearance. The equipment has proofing function for mistake and idle material. if screw setting not fished ortighten screw failure, the equipment will automatically hold and alarm, only the authorized personnel can relieve it, This can effectively prevent screw loose or defective materials flow into the next process.

Features

- **Intelligent Error Proof**  
Start up and check to ensure high precision torque value of electric batch;  
If failed to reach the tightening value, the equipment will alarm and self-lock;  
Position alarm, encoder controls screw tightening axes, the correspondingaxes will implement screw tightening;  
Quick mark recognition, using barcode scanner quickly to identify products,and set torque value.  
Visual inspection: Use industrial cameras to take photos, with functions toidentify characters/letters, shapes, colors, black &white and others;  
Spacer detection: identifying spacer by composite tightening  
Repair function: according to the visual inspection, intelligent repair available;  
Records: the machine records can be saved and communicated with MES;  
Efficient and economic: Combine the screwing tightening and visual inspection process to reduce work stations and improve efficiency.
- **Convenient Operation**  
Equipped with canvas tray, convenient to store large size wires and multi-wire cables;  
Visual software management, quickly identify problem causes.
- **Safety**  
Independent start button, controlled by program. Restart after placing the materials to prevent mis-operation and idle materials.

Specifications

Soft Ware	PC WIN10 ( authorised software), HACINT controlling software
(Standard ) electric Screw Driver	CORETEC
Torque Range	2~22N · m Select different types of electric driver according to different torques
Torque Accuracy	± 5%
Speed	540rpm/min
Screws	M3~M12 Nut/screw Locking
Features	Intelligent,with control software and C-LINK,DEVICENET,ProfibusDP card
Camera	Basler(import)
Camera Lens	Computar
Slide Unit	Taiwan HIWIN
Visual Software	Hacint
Sleeve Error Prevention	Optional
Conducting	Optional
Torque Inspection	Standard
Code Scanning	Standard
Axes Display	Standard
Interface	USB, RS232
Power	500W
Power Supply	220V/50Hz
Air Supply	0.5 ~ 0.7Mpa
Noise	<60 dB (A)
Dimensions	1010 x 910 x 2000mm , (workbench height≈840)
Weight	113kg



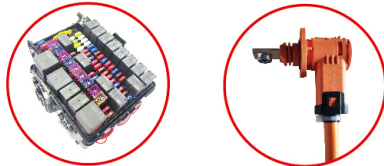
HBQ-G420 CRIMPING MACHINE

Introduction

HBQ-G420 is a semi-automatic pressure assembly machinet, mainly used for pressing electrical box fuse, high voltage wire harness charging port, energy storage connection wire interface and other riveting products.product pressure data can be uploaded to the MES system in real time, production logs can be queried for traceability.  
The equipment can be applied in diverse circumstances, the press stroke and pressure data can be adjusted according to actual needs.With visual detection function, the visual articles can be set according to the actual product, and the dual processing station can shorten the product processing cycle time.  
With application of bar code scanning, the following modes can work: no bar code, fixed bar code, no fixed bar code, regular series bar code. It is widely suitable for various products, and the upper computer program software owned and developed by Hacint, which can greatly meet customers’ requirements.  
The whole machine is mainly composed of rack, three-axis servo module, precision pressure sensor, upper computer, PLC, display component, double-station fixture.The fixtures can be customized according to product shape, With anti-error and anti-stay function, if the set product processing not finished or the pressure failure, the equipment will automatically hold the product and alarm, only authorized personnel can unlock it. It effectively prevents bad products from flowing into the next process.

Features

- **Intelligent Error Proof**  
Visual inspection: Perform visual inspection to identify characters, colors, shapes, black or white, and so on;  
Pressure Alarm: if the pressure standard can’t reach, the equip ment will alarm and self-lock to the repair procedure;  
Failure alarm: According to product requirements, qualified press ure and other failure modes can be identified, such as: fuse pin bending.  
Scanning Code: the barcode scanner quickly identify the product and fix the torque value;  
Station Switching: with double station switching, effectively shorten the processing cycle time;
- **Convenient Operation**  
Equipped with material reserve area to facilitate the storage and a ccess of materials;  
Visual software management, quickly identify the problem causes;
- **Safety**  
With safety grating, maximum pressure protection identification and the sensor identification of the safety door to well guarantee the safety.



Specifications

Software	PC WIN10, HACINT control software	Visual Inspection Unit	Germany Basler
Press	5~500N Core components can be changed according to actual products	Interface	USB, RS232
		Power	2500W
Press Accuracy	± 5%	Power Supply	220V/50Hz
Efficiency	Single 1~2s ( depend on products)	Air Supply	0.4~0.6Mpa
Noise	<60 dB (A)	Weight	About 800kg
Code Scanning Function	Standard	Dimension	L1800 × W1000 × H2200mm,
Axes Display	Standard		(Worktable height≈880mm)



HBQ-G420A CRIMPING MACHINE

Introduction

HBQ-G420A is a fully automatic fuse press-in machine, mainly used for electrical box fuse press-in or other riveted products, the product pressure value can be uploaded to the MES system in real time, the production log can be queried for traceability, the equipment has a variety of application scenarios, the pressure stroke can be customized to set up the pressure formula can be adjusted according to the actual needs, the equipment has a visual inspection function according to the actual product Set the visual formula, with a vibration plate feeding and mechanical magazines feeding system, can realize the fuse, relay, slow-melting insurance products such as automatic pressure loading, shorten the product processing CT. Application of scanning code to read the product can be selected: no bar code, fixed bar code, no fixed bar code, there are rules of the series of bar codes, four ways. Widely applicable to all series of marking products, the upper computer program software is developed by Hacint Intelligence, which can greatly meet the customization needs of customers; The whole machine mainly consists of frame, four-axis robot, pressure sensor, automatic feeding components, host computer, PLC, display components, fixtures. Fixtures can be customized according to the customer's product shape. It has the functions of error-proof, the setting of the product is not finished or the pressure fails, the equipment is automatically locked the product and the alarm, need to authorize the personnel to unlock, which can effectively avoid defective products into the next process.

Features

- **Intelligent Error Proof**  
Visual Inspection: Performs visual inspection of products to identify characters, colors, shapes, black and white and so on;  
Pressure Alarm: Failure to reach the pressure standard range, the equipment alarm, self-locking and perform rework program; can determine the failure mode other than the pressure qualified, such as: fuse pin bending;  
Scanning Identification: Use a scanning gun to quickly identify products and bind process parameters;  
Automatic Feeding: Adopt multi-station automatic feeding, shorten processing CT;  
Pressure waveforms: Precision pressure sensors are used to realize pressure recording for each product;
- **Convenient Operation**  
Equipped with a hand manipulator, which facilitates quick adjustment of any position of the equipment;  
Visualization software management for quick identification of problem causes;
- **Safety**  
The equipment is equipped with safety grating, pressure protection upper limit recognition function, safety door with sensor recognition to maximize the assurance of personnel safety.



Specifications

Operating System	Pc win10 (system), hacint control software	Robot	EPSON
Servo Motor	Kinco	Visual Inspection	Basler
Pressure Range	5~300N ( can change the core components According to the actual needs of the product )	Interface	USB, RS232
		Industrial Control Computer	SIEMENS
Pressure Accuracy	± 5%	Power	3500W
PLC	Kinco	Power Supply	220V/50Hz
Noise	<60 dB (a)	Air Supply	0.5~0.7Mpa
Code Scanning	Standard	Weight	About 2500kg
Coordinate Display	Standard	Dimensions	L1800 × W1600 × H2200mm (table height ≈ 880mm)

HBQ-K637A TAPE CUTTING MACHINE



Introduction

HBQ-K637A adopts a smart mechanism and intelligent control system to achieve fixed cutting length of tape. It well matches to a wide range of tape lengths and widths, with neat and beautiful cutting effects, providing customers with more cost-effective tape cutting.

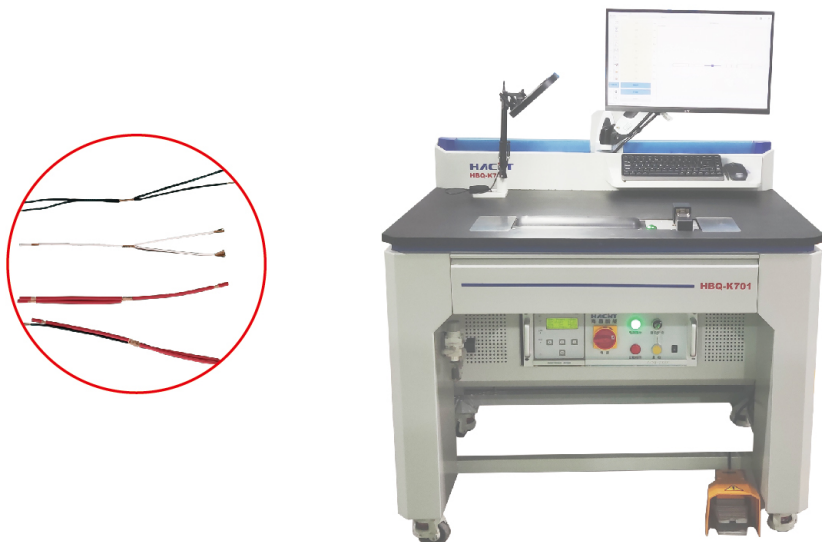
Features

- The overall structure is simple and generous;
- Quick change of spare parts;
- Large cutting length and width range, easy to adjust cutting parameters;
- Independent setting of production parameters, suitable for diversified production;
- Friendly hmi, more visibility and easy operation, both chinese and english version can be provided;
- Up to 3 sets of process parameters can be stored.

Specifications

Type	HBQ-K637A
application	tape
Tape width	40~80mm
Cutting range	50mm、330mm、350mm
Power Supply	AC220V/50Hz
Power	2000W (max)
Dimension	L1750mm × W550mm × H650mm
Weight	160kg

HBQ-K701 ULTRASONIC WELDING MACHINE



Introduction

The HBQ-K701 Ultrasonic Welding Machine uses ultrasonic wave generating components imported from Germany, equipped with exquisite mechanisms and flexible and intelligent control systems to achieve ultrasonic welding between wire harnesses. It is stable and suitable well for a wide range of wire diameters.

Features

- The ultrasonic system is imported, with stable and strong energy output and good sustainability;
- Friendly HMI and intuitive graphics enhance visibility and operability;
- The system has welding parameters for common wires, greatly reducing equipment debugging time;
- The computer monitors the welding process in real-time, and if the parameters exceed the set value, it will alarm to remind you;
- The device can connect network, barcode scanner and MES system;
- Support wire diameter identification to prevent operators from missing or misplacing wiring harnesses;
- Supports online and sequential welding.

Specifications

Type	HBQ-K701
Wire Type	Copper wire
Wire Cross Sections	0.7~20mm²
Air Pressure	0.1~0.6 MPa
Temperature	-0.5 ~ 50℃
Power Supply	AC380V/50Hz
Power	3000W (max)
Dimensions	L1100 × W825 × H1300mm
Weight	300kg
Wave Frequency	20kHz

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

HBQ-K711 ULTRASONIC WELDING MACHINE



Introduction

HBQ-K711 ultrasonic welding machine adopts double-transducer, which can meet the welding demand of large square copper/aluminum wire and terminal. the utility model realizes the Ultrasonic welding between the wire harness and the terminal, and is perfectly stable and suitable for different wire diameters.

Features

- With double transducer to realize high power welding and make amplitude output soft;
- Small amplitude welding is adopted to avoid vibration break of terminal spring and hole crack of abnormal terminal;
- With friendly HMI, It's easy to operate and visual;
- The welding process monitored by computer real time, it will alarm if the parameters beyond set value;
- It can connect with internet, bar code and MES system;
- Diversified tooling applicable to different abnormal terminals;
- It's not easy to discolor for large square wire during welding.

Specifications

Type	HBQ-K711
Wire Material	Copper Wire, aluminum wire
Wire Cross Section	Copper wire: 50~95mm²; aluminum wire: 50~120mm²
Terminal Thickness	≤5mm
Air Pressure	0.2~0.6 MPa
Temperature	-5 ~ 40℃
Power Supply	AC380V/50Hz
Max Power	12000W
Dimension	L1700 × W1100 × H1920mm
Stroke	50mm
Weight	620kg
Frequency	20kHz

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



HBQ-G102 NUT TIGHTENING MACHINE  
FOR PHOTOVOLTAIC ENERGY WIRE HARNESS



Introduction

HBQ-G102 Nut tightening machine is mainly composed of servo motor, encoder, PLC, photoelectric sensor and cylinder. The equipment has the function of error-proofing and fool-proofing. When the wrong products are put into the equipment, the equipment will not respond to start, which can effectively prevent the defective products from flowing into the next process. It has high tightening accuracy, simple operation, and stable performance, and saves manpower effectively.

Features

- **Convenient operation:** After the machine is turned on and materials is put in, the connector can be automatically tightened;
- **Multimode startup:** Three ways of starting modes, button control, foot control and sensor control, can be selected according to different needs, which effectively improves efficiency;
- **Targeted error-proofing:** Male and female head connectors distinguish, put into the specified connector to work; Terminal error-proofing function, when there is a problem with the connector or terminal, the equipment will not run, which can effectively avoid bad products flowing into the back-end process.

Specifications

Type	HBQ-G102
Range	0-5mm(Core components can be changed according to actual product requirements)
Accuracy	± 0.2mm
Efficiency	20~30pcs/min ( The actual manual feeding speed shall prevail)
Power	400W
Power Supply	220V/50Hz
Air Supply	0.5~0.7Mpa
Weight	Approx.50kg
Dimension	Approx.500 x 400 x 260mm

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

HBQ-G203 CUTTING & RIVETING & TWISTING MACHINE  
FOR PHOTOVOLTAIC WIRE



Introduction

HBQ-G203 Cutting & Riveting & twisting Machine for photovoltaic wire is the automatic photovoltaic cutting and screwing processing machine, with the highlight functions of cutting (stripping), crimping, connector assembly, screwing and so on. The machine layout adopts modular design, it's high efficient and convenient to debug. The equipment is mainly used for photovol taic connector assembly, and online detect important production processes.It is equipped with wire alignment detection, CFM detection, solder visual detection, wire connector place detection, nut visual detection, to ensure the quality definitely. HBQ-G203 Photovoltaic Cutting & riveting & twisting machine includes 1 set of main machine, 1 set of wire feeder, 1 set of wire holder. The main machine can process 150~2000mm wire, the general photovoltaic wire diameter is  $\Phi 5.7 \sim \Phi 6.3$  ( $1 \times 4 \text{mm}^2$ ). The wire feeder can bear the maximum 1000kg coil (drum) material, and the wire holder equipped with tensioning structure, Tension can be adjusted by adding or subtracting counterweight blocks.

Specifications

Function	Stripping, crimping, soldering, connector assembly, nut screwing, CCD detection
Wire size	$\Phi 5.7 \sim \Phi 6.3$ ( $1 \times 4 \text{mm}^2$ ) ( universal for different wires )
Feeding Type	Belt Conveying
Efficiency of Productivity	$L \leq 1200 \text{mm}$ : 3.5s/pcs; $L > 1200 \text{mm}$ : ( $2.75 + L/2000$ ) s/pcs
Length	150~2000mm
Feeding Accuracy	$L < 500 \text{mm}$ $\pm 1 \text{mm}$ ; $L > 500 \text{mm}$ ( $1 \text{mm} + 0.2\%L$ )
Stripping Length	Front/ Rear strip 0~15mm, adjustable
Crimping Force	4T Crimping Machine, CFM Optional
Crimping Applicator	30mm/40mm Side feed
Wire Feeder/Holder	HBQ-G103 Wire storage shelf
Machine Dimension	L3800 × W2000 × H2250mm 1350kg
Overall Dimension	L7000 × W2000 × H2250mm 2000kg





HBQ-G205 PHOTOVOLTAIC CONNECTOR AUTOMATIC ASSEMBLY MACHINE



Introduction

HBQ-G205 is a fully automatic photovoltaic connector automatic assembly equipment, the layout of the whole machine adopts one out of a modular design, high efficiency, easy to debug, the equipment is mainly used for photovoltaic panel end connector assembly. Each assembly process is inspected, with O-ring assembly in place detection, waterproof inner plug skew detection, plastic nut tightening torque detection, plastic nut tightening gap detection. Each assembly process is inspected, with O-ring assembly in place detection, waterproof inner plug skew detection, plastic nut tightening torque detection, plastic nut tightening gap detection, bayonet and card Angle fracture/damage/missing detection, finished product 360-degree surface scratch/indentation/deformation detection, to ensure that customers finished product quality is reliable, no defective products out.

HBQ-G205 machine includes: host, parts automatic loading system, CCD visual inspection system, laser marking system (optional), can be applied to all the same type of photovoltaic connector automatic assembly.

Features

- The equipment is efficient and stable, and the operation rate is high;
- Closed loop inspection of all processes to prevent the outflow of defective products;
- Equipment layout compatible with a variety of product models, only need to replace the product fixture can achieve the transformation;
- Simple operation interface, easy to operate and maintain;
- Product production data classification statistics, up to 30 days of production capacity and 7 days of detailed data classification.

Specifications

Model	HBQ-G205
Function	Male/female head assembly, O-ring assembly, waterproof inner plug assembly, plastic nut assembly, laser marking (optional), size and appearance CCD detection
Applicable Product	Photovoltaic connector male, female head products
Finished Product Discharge Method	Manipulator clamp to take out the material
Beat	≤2.2s/pcs
Equipment Assembly Yield	≥99%
Operation Rate of Equipment	≥98%
Product Assembly Accuracy	≤±0.5mm
CCD Detection Accuracy	≤±0.02mm
Host Size	L1400×W1500×H2000mm
Overall Size	L2800×W1500×H2000mm

HBQ-G207 CUTTING & RIVETING & TWISTING MACHINE FOR PHOTOVOLTAIC WIRE



Introduction

HBQ-G207 cutting & riveting & twisting Machine for photovoltaic wire is a kind of automatic photovoltaic cutting and riveting and screwing processing equipment, functions include, cutting (peeling), double-ended terminal riveting, both ends of the connector assembly, both ends of the connector nut tightening and other functions, the layout of the whole machine adopts the modularized design, the long line pendulum U double processing mode, high efficiency, convenient debugging, the equipment is mainly used for photovoltaic board end connector assembly, the important production process has detection, with wire alignment detection, pressure management detection, solder visual detection, wire through the connector in place detection, nut gap visual detection, to ensure that the quality of customers' finished products is reliable, no defective outflow.

HBQ-G207 Cutting and Riveting and Screwing Machine, the whole machine includes, 1 set of main machine, 1 set of pay-off stand, 1 set of wire storage stand, the main machine can process 150~3000 long wires. L<440mm short wires turn, L>440mm long line pendulum U. General wire diameter D5.7~D6.3 (4 square photovoltaic cable, pay-off stand can bear the maximum 1000kg coil (drum) incoming material, the storage frame is equipped with a tensioning structure, by adding or subtracting the counterweight block, the tension can be adjusted.

Features

- Input line length device automatically identifies long and short lines and runs corresponding programs;
- Pressure monitoring to ensure the stability of product crimping quality;
- The assembly and processing of the connectors at both ends of the photovoltaic cable are completed on the same equipment;
- The product transfer of each station is controlled by servo system, which is convenient for debugging, and the equipment is more flexible and more efficient;
- Split into front and rear sections, processing one end of the product and then processing the other end to effectively improve the product yield.

Specifications

Function	FPeeling、crimping terminal、solder, connector composition, screw the nut, CCD detection
Universal Wire Diameter	Φ5.7~ Φ6.3 (4mm²) (Common, based on the actual cable)
Wiring Method	Belt Conveyor
Capacity Efficiency	Output: L≤1500mm 3.5s/pcs; L>1500mm (2.75+L/2000) s/pcs
Length Range	150mm~3000mm
Wire Feed Accuracy	L<500mm: ±1mm; L>500mm: ±(1mm+0.2%*L)
Peeling Length	Fixed peeling spacing, according to the actual peeling length to replace the corresponding thickness of the pad
Pressure	4.0T Terminal Machine (Pressure Management Options)
Cramping Dies	Horizontal Type: 30/40mm
Pay-off Stand/Storage Line Stand	HBQ-G103 Photovoltaic pay-off stand storage line stand 1000 type
Host Size	L6500×W2000×H2250mm 2200kg
Overall Size	L9500×W2800×H2250mm 3000kg



## YJM-AFS300I/YJM-AFE300I CRIMPING APPLICATOR

### Introduction

- **Adjustment** : Can be supplied either with a continuous or a wedge regulating head, providing a 0.02mm resolution for C.H./I.H. and a 2.0mm range, which satisfies your rigorous demand on the crimping quality;
- **Modularized framework**: Can be adjusted and maintained conveniently;
- **Pneumatic feeding mechanism**: Terminal pitch 40mm become true easily and feeding speed can be adjusted with facility, can be supplied either with shot stroke cylinder or oriented cylinder for choice, which can enable you to operate the machine freely; built-in valve makes the directions change precise and orderly;
- **Reversing value structure**: Build-in reversing value is stable and reliable;
- **Switch system**: Can be fitted to semi-automatic and fully automatic crimping machine for Occident brand such as KOMAX, AMP, MECAL and so on;
- **Cycle counter**: The 7 digit cycle counter can record the pressing times accurately upon request;
- **Technical documentation**: You can get a complete technical documentation containing all the information needed to safely use and correctly maintain the equipment. Upon request, a capability study & Cross-section Analysis can be provided;
- **Strong resistance to rust**: QW surface plating;
- **Production tracking**: Laser labeling for each part-unique ID.



• YJM-AFS300I

### Specifications

Type	YJM-AFS300I	YJM-AFE300I
Stroke	40mm	
Feed Type	Side Feed	End Feed
Shut Height	135.78mm(5.346in)	
Wire Cross Sections	0.08~6mm <sup>2</sup> (9~28AWG)	
Terminal Thickness	1.2mm(max)	
Feeding System	Pneumatic	
Terminal Pitch	40mm(max)	
Dimensions	L180 × W155 × H110mm	
Weight	5kg	

#### ★ Related Products

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

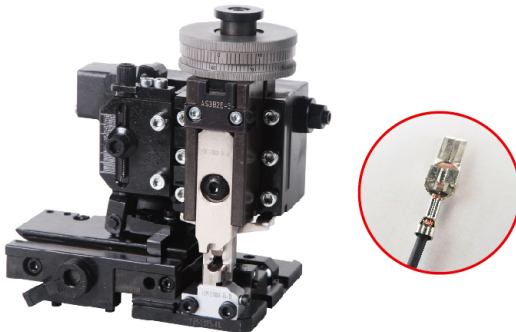


• YJM-AFE300I

## S3D CRIMPING APPLICATOR

### Introduction

- **Adjustment** : C.H./I.H adjustment accuracy of 0.01mm and 0.02mm, adjustment range of 2.0mm, adjust the rhythm sense, the scale is easy to identify, to meet your "demanding" requirements for crimp quality;
- **Modular structure**: easy to adjust and maintain, super flexible to create unlimited expansion space, completely break the terminal and crimpMold 1:1 pattern, affordable;
- **Feeding mechanism**: At the same time, we provide you with two solutions: pre-feed (semi-automatic) and post-feed (automatic). The material step is visible;
- **Quick change**: a semi-automatic and fully automatic crimping applicator machine that perfectly matches European and American brands such as KOMAX, AMP, and MECAL;
- **Technical documents**: provide complete instructions for use and maintenance, and provide machine capability studies and breaks if required. Surface analysis report and other documents;
- **Strong resistance to rust**: QW surface plating;
- **Production tracking**: Laser labeling for each part-unique ID.



### Specifications

Type	S3D
Stroke	40mm
Feed System	Side Feed
Shut Height	135.78mm(5.346in)
Wire Cross Sections	0.08~6mm <sup>2</sup>
Terminal Thickness	1.2mm(max)
Feed System	Mechanical
Terminal Pitch	30mm(max)
Chregulation/range	0.01 and 0.02
Dimensions	L156 × W156 × H120mm
Weight	5kg

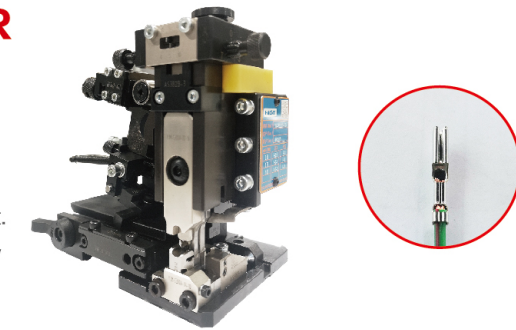
## GS3M2 CRIMPING APPLICATOR

### Introduction

GS2M2 applicator, Euro mechanical feed applicator, adopts cam feed mechanism, which ensures stable feeding and easy adjustment. Easy adjustment and stable crimping make GS2M2 applicator widely used in the wire harness industry.

### Features

- **Adjustment**: Disk dial and wedge dial can be switched freely. C.H./I.H can be adjusted with the accuracy of 0.02mm and the range of 2mm. It is more adjustable and easier to operate;
- **Feeding Mechanism**: Customized design for stable feeding;
- **Quick Change**: It is fitted to KOMAX, AMP, HACINT crimping applicator machine and automatic crimping applicator machine;
- **Technical Documentation**: Provide the operation manual. The CMK and cross-section analysis, if necessary, will be offered;
- **Strong Resistance to Rust**: QW surface treatment;
- **Product Tracking**: Laser labeling for each part-unique ID;
- **Cloud data**: Scan QR code on each name plate to get the data of the applicator in real time.



### Specifications

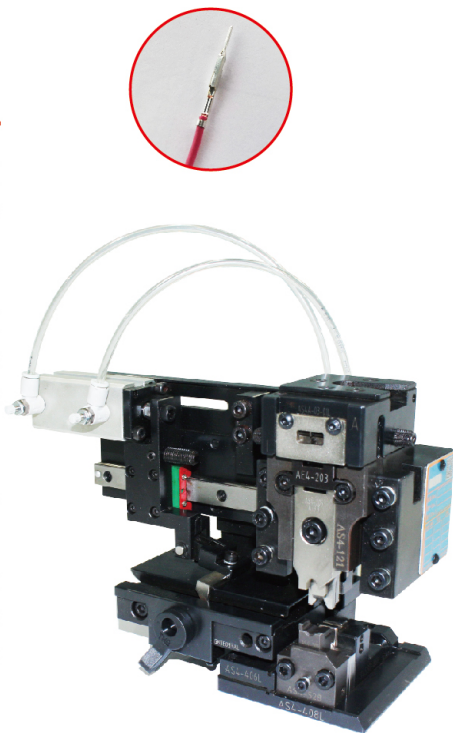
Type	GS3M2
Stroke	40mm
Feed Type	Side Feed
Shut Height	135.78mm ( 5.346in )
Wire Cross Sections	0.08~6.0mm <sup>2</sup>
Terminal Thickness	0.8mm ( max )
Feeding Structure	Mechanical
Terminal Pitch	28mm
Dimensions	L200 × W150 × H170mm
Weight	5kg



# AS4A/AE4A CRIMPING APPLICATOR

## Introduction

- **Adjustment** : can be supplied either with a contuous or a wedge regulating head having a 0.02mm resolution for C.H./I.H. and a 2.0mm range. It's not necessary to adjust the crimping applicator height repeatedly;
- **Modularized framework**: Can be adjusted and maintained conveniently;
- **Pneumatic feeding mechanism**: Terminal pitch 40mm become true easily and feeding speed can be adjusted with facility, can be supplied either with shot stroke cylinder or oriented cylinder for choice, which can enable you to operate the machine freely;
- **Reversingvalue structure**: Bulid-inreversing value is stableand reliable;
- **Quick change**: Perfectly fit with ShinMaywa, JAM, KODERA and HACINT semi-auto crimping machine;
- **Technical documentation**: You can get a complete technical documentation containing all the information needed to safely use and correctly maintain the equipment. Upon request, a capability study & Cross-section Analysis can be provided;
- **Strong resistance to rust**: QW surface plating;
- **Production tracking**: Laser labeling for each part-unique ID.



• AS4A



• AE4A

## Specifications

Type	AS4A	AE4A
Stroke	30mm	
Feed Type	Side Feed	End Feed
Shut Height	119.7mm(4.713in)	
Wire Cross Sections	0.08~6mm² (9~28AWG)	
Terminal Thickness	1.2mm(max)	
Feeding System	Pneumatic	
Terminal Pitch	40mm(max)	
Dimensions	L225×W128×H100mm	
Weight	5kg	

### ★ Related Products

HBQ-2030JB Crimping Machine  
HBQ-X4030JB Crimping Machine

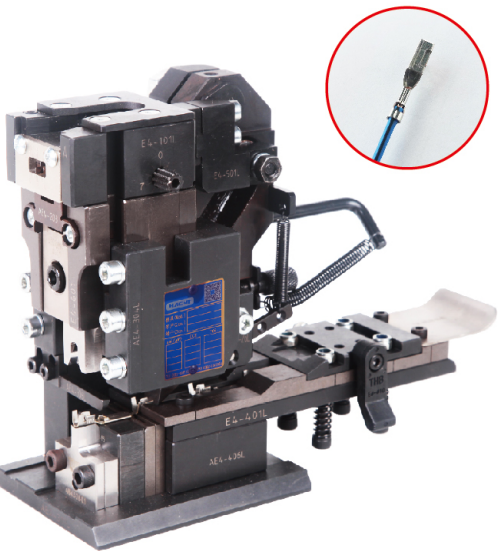
# XS4/E4 CRIMPING APPLICATOR

## Introduction

- **Adjustment** : can be supplied either with a contuous or a wedge regulating head having a 0.02mm resolution for C.H./I.H. and a 2.0mm range. It's not necessary to adjust the crimping height repeatedly;
- **Feeding mechanism**: can be supplied with the pre feed cam(bench top use) and the post feed cam (automatic use ) for choice;
- **Quick change**: Perfectly fit with ShinMaywa, JAM, KODERA and HACINT se mi-auto crimping machine;
- **Technical documentation**: you can get a complete technical documentation co ntaining all the information needed to safely use and correctly maintain the equipm ent. Upon request, a capability study & Cross-section Analysis can be provided;
- **Strong resistance to rust**: QW surface plating;
- **Production tracking**: Laser labeling for each part-unique ID.



• XS4



• E4

## Specifications

Type	XS4	E4
Stroke	30mm	
Feed Type	Side Feed	End Feed
Shut Height	119.7mm(4.713in)	
Wire Cross Sections	0.08~6mm² (28~9AWG)	
Terminal Thickness	1.2mm(max)	
Feeding System	Mechanical	
Terminal Pitch	32mm(max)	
Dimensions	L225×W162×H100mm	
Weight	5kg	

### ★ Related Products

HBQ-2030JB Crimping Machine  
HBQ-X4030JB Crimping Machine



## YJM-4XA/YJM-100 APPLICATOR

### Introduction

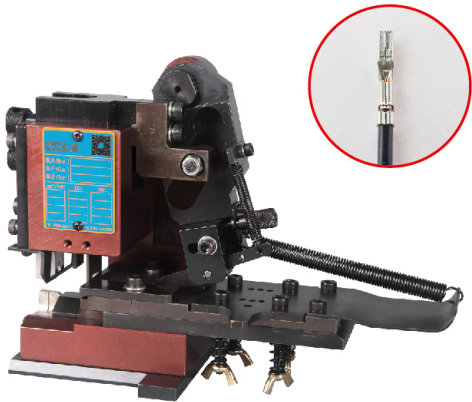
With production experience of 20 years , it turns out to be the most economical , durable applicator.

### Function

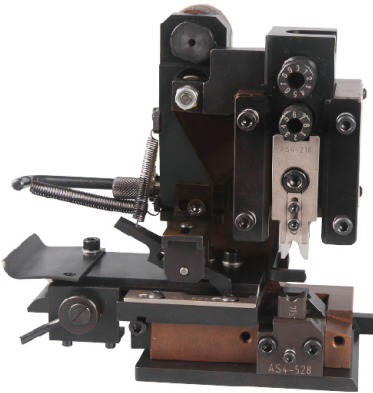
- Can be supplied either with a continuous or a wedge regulating head having a 0.05/0.1mm resolution for C.H./I.H. and a 0.45/0.7mm range;
- Highly precise parts match together to assure high stability;
- Can be fitted to semi-automatic and fully automatic crimping machine for Japanese & Korean brand.

### Specifications

Type	YJM-4XA/YJM-100
Stroke	30mm
Shut Height	119.7mm
Wire Cross Sections	0.08~6mm <sup>2</sup>
Feed Type	Side Feed/End Feed
Terminal Thickness	1.2mm(max)
Feeding System	Mechanical
Terminal Pitch	32mm(max)
Dimensions	L180×W167×H92mm
Weight	4kg



● YJM-100



● YJM-4XA

## GS3M4 CRIMPING APPLICATOR

### Introduction

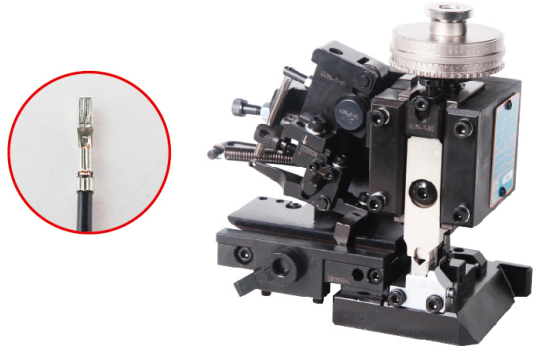
- The adjusting accuracy of crimping applicator height is 0.025mm and the adjusting range is 6.0mm.

The adjusting accuracy of insulation height is 0.033mm and the adjusting range is 6~10mm, strong rhythm adjustment, scale easy to identify, no need to frequently adjust to frequently shut height of crimping machine;

- Match Korean semi-automatic and fully automatic crimping applicator machines;
- Feeding mechanical cam structure.

### Specifications

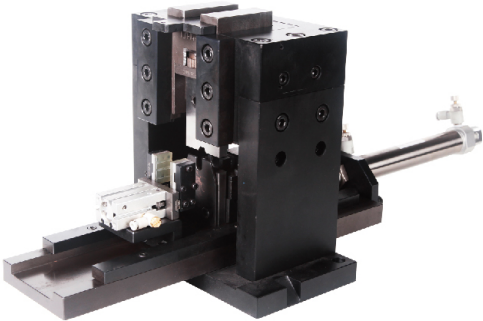
Type	GS3M4
Stroke	30mm
Shut Height	149±3mm
Wire Cross Sections	4mm <sup>2</sup> (max)
Feed Type	Side Feed
Terminal Thickness	1.2mm(max)
Feeding System	Mechanic
Terminal Pitch	26mm(max)
Weight	5kg



## CLM BATTERY TERMINAL CRIMPING APPLICATOR

### Introduction

- The upgrade version of punch crimping applicator, is suitable for single style of battery terminals;
- Modular structure, crimping components can be ordered separately, reduce costs greatly;
- With pneumatic pulling structure, terminals and wires far away from the crimping applicator area, open vision to operate efficiently and conveniently;
- With precise I.H. scale and extensive range, it's convenient to adjust the shut height;
- With pneumatic clamp device, it's stable and consistent crimping applicator;
- Adding safety sensor to make sure safe operation;
- Laser etching ID to each part.



### Specifications

Type	CLM
Stroke	40mm /50mm
Ch/ih Regulating Precision / Range	0.05mm/5mm
Feed Type	Loose
Shut Height	197.5mm(7.776in)
Wire Cross Sections	75mm <sup>2</sup> (max)
Terminal Thickness	2.0mm (max)
Dimensions	L215×W215×H580mm
Weight	18kg

#### ★ Related Products

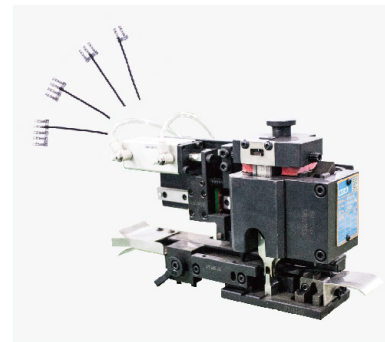
HBQ-P20/P30 Crimping Machine



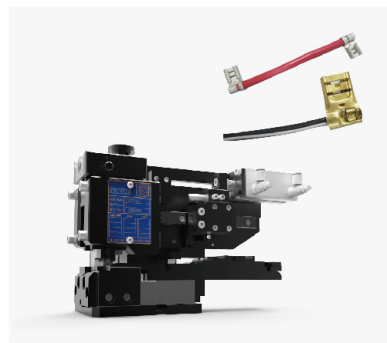
AFS300B-S SENSING APPLICATOR



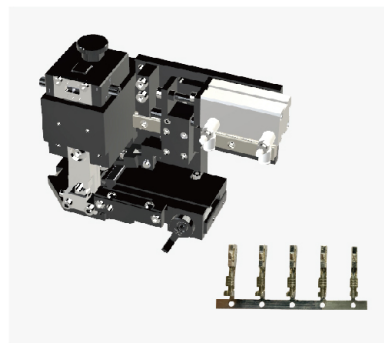
AFS300K CRIMPING APPLICATOR



AFTCA COUNTING CRIMPING APPLICATOR



NEFTCA-X FLAG TERMINAL CRIMPING APPLICATOR



ADS CRIMPING APPLICATOR



YJM-AFS300M CRIMPING APPLICATOR



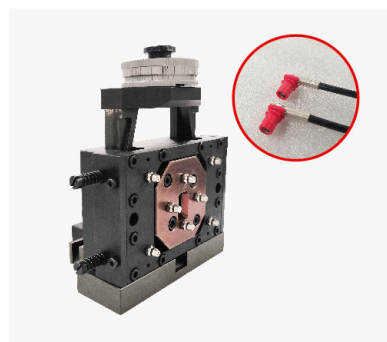
ESTA CRIMPING APPLICATOR



FPCA FOUR POINTS CRIMPING APPLICATOR



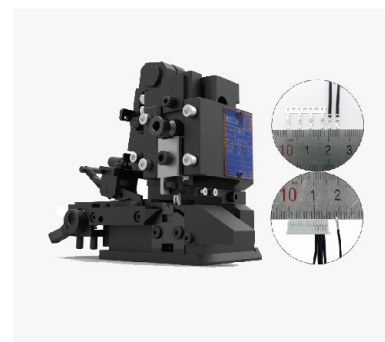
SPCA SIX POINTS CRIMPING APPLICATOR



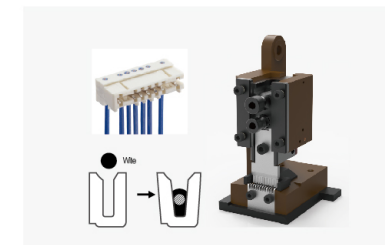
RFPCA CRIMPING APPLICATOR



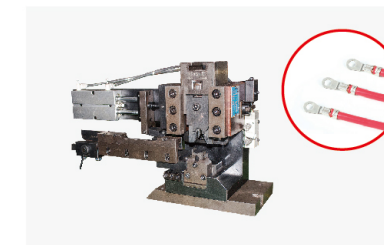
EHCA CRIMPING APPLICATOR



NANO CRIMPING APPLICATOR (S4B)



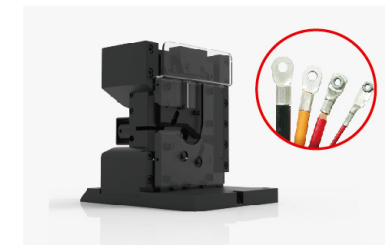
DYM-C CRIMPING APPLICATOR



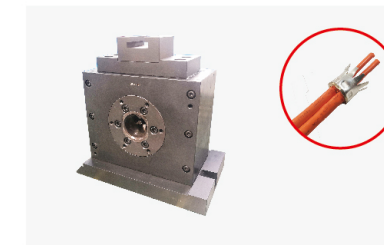
LCMS HEAVY DUTY CRIMPING APPLICATOR



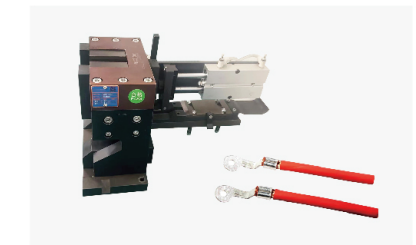
HCA CRIMPING APPLICATOR



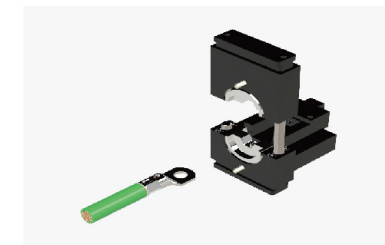
NHCA CRIMPING APPLICATOR



HSPCA CRIMPING APPLICATOR



LCME CRIMPING APPLICATOR



WHCA CRIMPING APPLICATOR

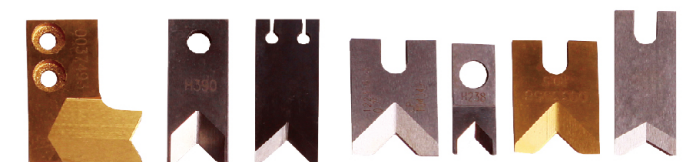
## WEARING PARTS(BLADES)

### Introduction

- Japanese, European and special kinds of blades classified upon configuration;
- Made of choice materials, long life, flexibility and hardness are available;
- Advanced equipments and professional technics;
- Surface plating to be anti-corrosion;
- Processing each blades carefully, Surface coating available if required;
- Customized if any demands.

#### ★ Related Products

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





CS TEST TABLE

Introduction

CS tester is for testing harness. It's designed to industrial integration standards, and the main control part worked by Win7 system based on industrial computer. So this machine has stable, reliable performance to reduce the failure rate. I/O board utilize Chip electronic components and it's low consumption, small size, light weight and high reliability; with detailed attached files and please work by assembly line mode when edit drawings, it's convenient to operate the machine and worth leading value in the industry.

Features

- Testing the circuit connected, disconnected , short or wrong;
- Able to detect the installation direction and malfunction of the diode;
- Test electric relay and gas-tight (positive and negative pressure), locking piece, airbags, fuse, locking button and other accessories;
- Different user rights can be set based on different customers, Chinese-English interface available;
- The Test table designed by HMI engineering principle, easy to operate.



CS Wire Harness Testing System



Testing Module



Fuse Box Testing Tooling

Specifications

Type	CS	Current	1~10mA
Power Supply	AC220V/50Hz	Voltage	0~5V
Air Supply	0.5~0.6MPa	Dimensions	L3600(1200/1800/2400) × W1000 × H1500mm
Speed	> 1024point/second		

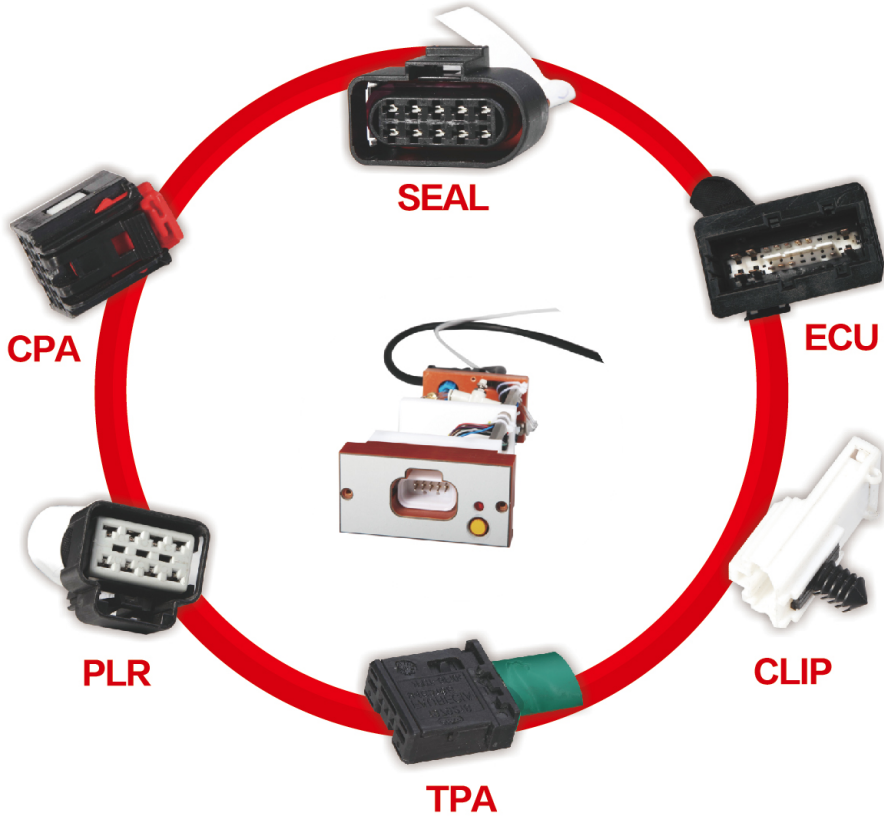
CS TEST TABLE

Features

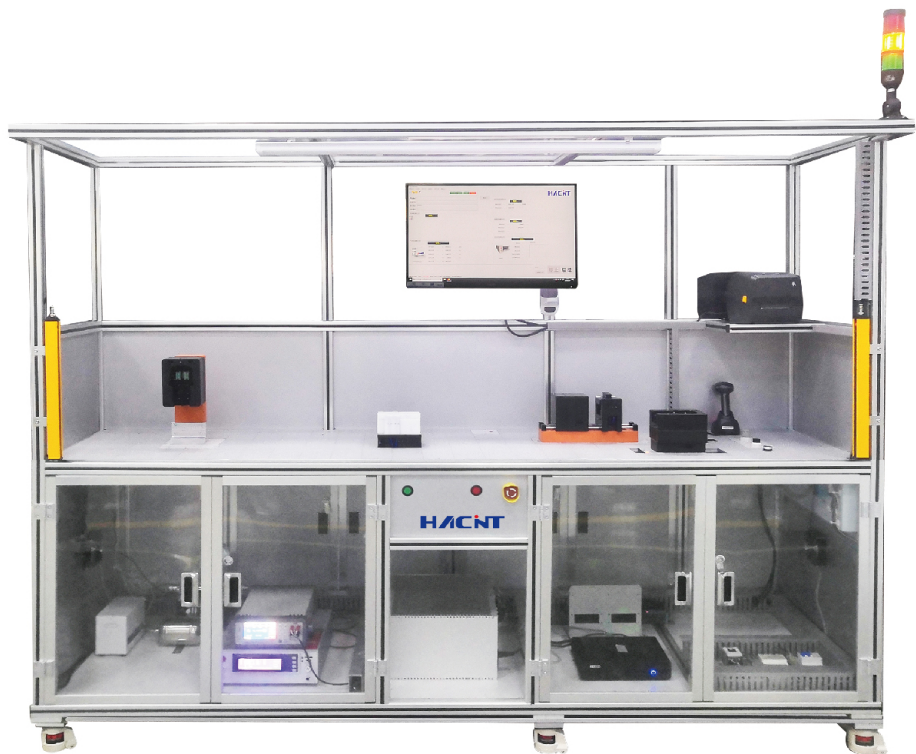
- The function of importing and exporting the circuit table for convenient check;
- Memory and non-memory testing;
- Self-check function;
- The test interface of image, list and one-by-one display;
- Print and scan function for bar code and QR code;
- Stable system, anti-interference, expandable, and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



Accessory Testing Function by Pneumatic Module



HCS6000 TEST TABLE



Introduction

High voltage tester is designed for the performance test, especially for the performance test of the new energy cable. The test items include low voltage conducting test, air tight test, AC voltage withstand test, DC voltage withstand test and insulation resistance test.

Features

- This tester integrates some protective modules including overvoltage protection, overcurrent protection, electric leakage protection, which guarantee the operator’s safety to the most;
- Low voltage conducting test, air tight test, AC voltage withstand test, DC voltage withstand test and insulation resistance test are all carried out on this tester perfectly;
- Multiple tests are able to performed on one tester and the testing time can be adjusted as requirement.

Specifications

AC Voltage Withstand Test	0~5.20kV (Precision of 0.01kV)
DC Voltage Withstand Test	0~6.10kV (Precision of 0.01kV)
Insulation Resistance Test	0.01MΩ ~ 99.9GΩ (Under the voltage of 10 to 1020V) (Precision of 0.01V)

CSA CABLE TIE TEST TABLE

Introduction

CSA is one of testing machine used for the installation and testing of the cable ties. It integrates the installation and testing together, which greatly increase the efficiency.

On-line testing of cable ties avoids the mistakes of installations.



Features

- IPC offers a stable and less fault control;
- Aluminum alloy frame, level up;
- Intelligent guiding by luminous diode let the operation more convenient;
- Sound reminder, graphical display, wire harness fault clear and intuitive;
- Permission settings, highlighting personality;
- Label printing, final confirmation.

Specifications

Type	CSA	Data Acquisition Speed	1/1000ms
Air Supply	0.5~0.6MPa	Measuring Range	2048(max)
Power Supply	AC220V/50Hz	Dimensions	Up to the type of wire harness
Power	350W	Weight	Up to the structure



CSB VISUAL TEST TABLE FOR ELECTRIC BOX

Introduction

CSB Visual test table is used to test whether the fuse of the electric box is installed to right position or not.Excellent visual test table can identify complex and diverse fuse Types and accurately judge whether the fuse is installed correct or not. The table is of the simple and brief operation interface, stable and reliable performance and high efficiency of testing. The machine is industrial Class-integrated design standards, small size, light weight, safe and reliable, workstations can be interchanged, can meet the testing needs of various electrical boxes.

Features

- **Easy operation:** Automatic test when the electric box gets in;
- **High efficiency:** Short test time 3~6s;
- **Visualization:** The test result is eye-catching and easy to distinguish and the table can automatically print barcode or QR code;
- **Traceability:** Automatically save the photos of qualified products to realize product traceability;
- **Interchangeability:** The tooling is interchangeable and can be used to test a variety of electrical boxes.



Specifications

Type	CSB	Power Supply	AC220V/50Hz
Wire Cross Sections	Electric Box	Power	100W(max)
Dimensions	L960×W1010×H1030mm		

HBQ-G421 LASER HEIGHT & VISUAL TEST TABLE

Introduction

HBQ-G421 is a machine for fuse box height measurement and visual inspection, mainly used for electrical box fuse, s-melted fuse, electric relay visual identification and height identification. Product data can be uploaded to the MES system in real time, production logs can be queried for traceability. The equipment can be applied in diverse circumstances, the visual date and height inspection data can be adjusted according to actual needs. With application of bar code scanning, the following modes can work: no bar code, fixed bar code, no fixed bar code, regular series bar code. With anti-error and anti-stay function, if the product process setting finished or the pressure failure, the machine will automatically hold the product and alarm, only authorized personnel can unlock it. It effectively prevents bad products from flowing into the next process. It is widely suitable for various products, and the upper computer program software owned and developed by Hacint, which can greatly meet customers' requirements.

Features

- **Intelligent Error Proof**  
Visual inspection: Perform visual inspection to identify characters, colors, shapes, black or white, and so on;  
Height Detection: Laser height detection of the product, which can determine the height of the product by laser.  
Failure alarm: defective status of the product according to the product requirements.  
Scanning Code: the barcode scanner quickly identifies the product to confirm visual and height inspection articles;  
Fixture switching: adopting quick-change type and article customization.
- **Convenient Operation**  
Equipped with material reserve area to facilitate the storage and access of materials;  
Visual software management, quickly identify the problem causes.
- **Safety**  
The machine adopts a fully enclosed structure, the sensor identification of the safety door to well guarantee the safety.

Specifications

Type	HBQ-G421
Software	PC WIN10, HACINT control software
IPC	SIEMENS
Height Inspection Accuracy	± 0.5mm
Efficiency	Single 3~5s per 15 points ( depend on products)
Noise	<60 dB (A)
Code Scanning Function	Standard
Article DIY	Standard
Visual Inspection Unit	Germany Bassler
Interface	USB, RS232
Power	1200W
Power Supply	220V/50Hz
Air Supply	0.5Mpa
Weight	About 800kg
Dimension	L1800×W1000×H2200mm,worktable height≈880mm



HBQ-G422 VISUAL TEST TABLE



Introduction

HBQ-G422 is a semi-automatic visual inspection machine. It can realize the visual function of 360° test for harness products, such as defect detection, size measurement and other visual functions. Through the application of scanning code reading products can be selected: no bar code, fixed bar code, no fixed bar code, a regular series of bar codes, four ways. Widely applicable to all series of wire products, the upper computer program software is developed by Hacint Intelligence, which can greatly meet the customization needs of customers;

The whole machine consists of frame, positioning components, visual inspection components, electrical components, equipment detection NG automatically lock the product and alarm, need to authorize personnel to unlock, can effectively avoid defective products into the next process.

Features

- **Error Proof**  
Visual Inspection: Performs visual inspection on the products to identify defects, sizes, etc;  
Formulation DIY: According to the requirements of the product, you can define your own formulation parameters;  
Code Recognition: Use a code scanning gun to quickly identify products and bind craft formulas;
- **Convenient Operation**  
Equipped with a touch screen to facilitate quick adjustment of any position of the equipment;  
Visualization software management for quick identification of problem causes;
- **Safety**  
The device adopts a fully enclosed structure, all moving measuring parts without any risk of contact with the human body.

Specifications

Operating System	PC WIN10 (system), HACINT control software	Interface	USB, RS232
Pneumatic Parts	Air TAC	Power	600W
Noise	<60 dB (A)	Power Supply	220V/50Hz
Code Scanning	Standard	Air Supply	0.5~0.7Mpa
Size Display	Standard	Weight	60kg
Visual Inspection	Basler	Dimensions	420 x 720 x 560mm

CSB-TXF100 VISUAL TEST TABLE FOR FAKRA CABLE



Introduction

CSB-TXF100 series inspection table adopts simple structure and intelligent control system. It can do electrical property (conduction, short circuit, open circuit, wrong circuit, insulation, withstand voltage), concentricity (the center conductor is relative to the outer conductor), center hole opening size, housing color error proof detection and others testing for the FAKRA harness. It has high integration, stable detection, and greatly improves the detection efficiency of wire harness.

Features

- Stable structure, and this is the basis of the stable measuring;
- Modular design, simple quick switching project, easy and fast for changing products;
- Customized MES system for easy product traceability;
- Identification after testing, refusal of mixing;
- Additional testing, saving investment;
- Probe life cycle management to reduce consumables;
- Self-checking when turns on to verify testing accuracy;
- Alarm information and solutions are clear and intuitive;
- Highly integrated, needn't to check the inside of the mechanical structure;
- Permission management to eliminate operational risks.man body.

Specifications

Model	CSB-TXF100	Power Supply	AC220V/50Hz
C/t	≤15S (single hole double end wire, electrical test+ concentricity+manual assistance)※2	Power	1000W (max)
		Withstand Voltage Testing	AC 50 ~ 1000V
Insulation Testing	DC 50 ~ 1000V	Data Saved	≥90 days
Visual Testing Precision	± 0.02mm	Customized	※3
Person Qty	1people	Weight	500kg ( max )
Dimension	L1200 × W1055 × H1770		

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.



## GZ-0012 AIR-LEAKAGE TEST TABLE



### Introduction

Air-leakage detection table is a professional machine for the conduction and airtightness detection of plastic housing independently developed by HACINT company.

With PLC and master system, the machine can not only detect the on-off of the interlocking piece in the plastic housing but also control the air-leakage machine to inflate and hold the pressure of the housing, so as to get the purpose of detecting housing leakage.

It is mainly used for the detection of holes, cracks and other defects of housing caused by molding. In the design stage of the harness, it can select seals and core wire to match the housing and verify other materials.

### Features

- **Simple operation:** housing needs to be detected will be automatically locked when inserted, It will do the detection automatically after press down the start button and give the result;
- **Good flexibility:** can set the inflation pressure value, inflation time, holding pressure time, detection time and others, so it can detect housing for different parameters;
- **Interchangeability:** the software adopts article way, and the detection parts adopt modular design, so it can replace with different housing for detection.

### Specifications

Bench Size	L1800 × W1100 × H1200mm (Accept customizable)
Power Supply	220AC 300W
Air Supply	0.5–0.7MPa
Detection Time	Depending on the detection parameters

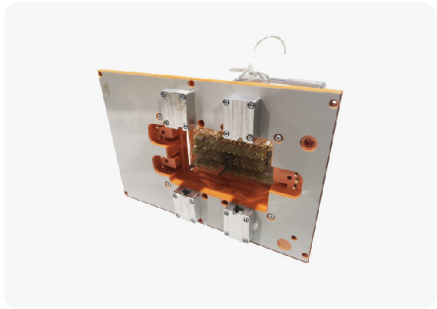
## TEST MODULE



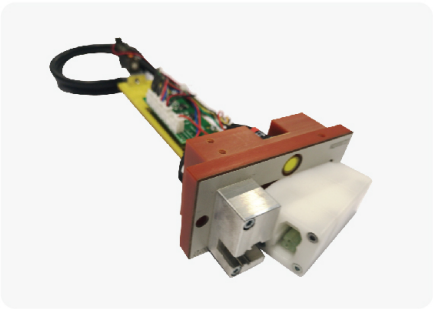
Above 40 pin ECU module



Push back module



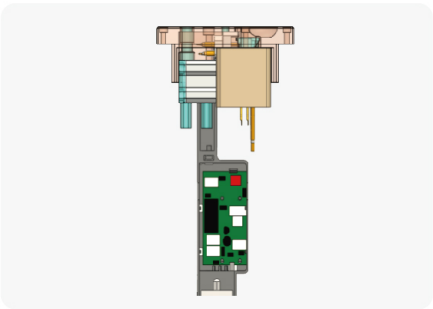
Fuse box module



Horizontal structure module



Convex locking plate module



Concave locking plate module



Airtight module



DedicatedUSB module

HBQ-350 CROSS SECTION ANALYSIS CENTER

Introduction

HBQ-350 terminal cross section analysis center is an integrated multi-functional high-end precision inspection and analysis equipment for wire harness terminal quality inspection, mainly used in wire harness terminals, which can automatically cut, grind, corrode, clean and analyze terminal crimping quality. It can achieve one-click full automation operation, simple and efficient equipment. The operator can complete the analysis in 5 minutes.

Features

- **Intelligence:**  
Cutting, grinding, corrosion, cleaning, imaging fully automated & intelligent;  
The speed of many parts of the system can be adjusted to meet different needs;  
It supports intelligent hand-drawing, intelligent drawing, analysis and generation of standardized cross section analysis reports;  
It supports the setting of a variety of cross section standard templates, and it supports switch a variety of operating languages to meet different needs.
- **High Efficiency:**  
Simple and efficient operation, more than 95% are automated operations;  
One key automation, 3~5 minutes to complete the whole process of cross section analysis;  
Cross section results can be saved, uploaded and printed remotely, which is easy to view and manage.
- **Accuracy:**  
Equipment operation is automated and intelligent, and few people participate in the process;  
Intelligent and automatic analysis, generate reports  
Servo motor is used in multiple parts of the equipment to ensure accurate positioning.



Specifications

Model	HBQ-350	Diameter Range	0.08~40mm²
Power	AC220V	Corrosion Type	Acid/electrolyte
Air Source	0.4~0.6 Mpa	Imaging System	20 million pixels
Pitch Accuracy	± 10%	Screen	13.3 industrial panel PC
Weight	120kg	Dimensions	L880×W530×H720mm

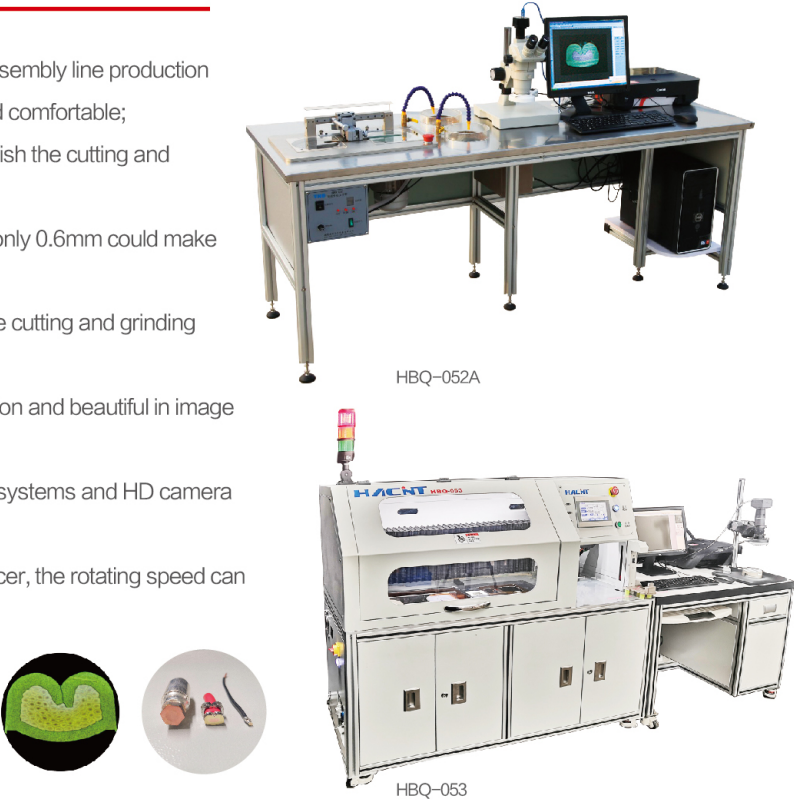
HBQ-052A/HBQ-053 CROSS SECTION ANALYSIS CENTER

Introduction

This machine is designed professioanlly to guarantee high quality for wire harness industry. It will take 3 ~5minutes to go through procedures such as incision, erosion, cross-sectional image processing, testing analysis, records and so on. It greatly improves the quality inspect speed .

Features

- Mechanics designed humanity accordingly, assembly line production can make your operation more convenient and comfortable;
- The clamping only needs one step, you can finish the cutting and grinding by push and pull;
- The ultrathin dedicated cutting wheel which is only 0.6mm could make the cut face smooth and easy to polish;
- The precise guide rail transmission enables the cutting and grinding more steady;
- Timely corrosion can cause level in cross section and beautiful in image processing;
- The perfect combination of high quality optical systems and HD camera will provide you clearer cross section image;
- With Three phase motor controlled by transducer, the rotating speed can be adjustable upon request.



Specifications

Type	HBQ-052A	HBQ-053
Cross Section	0.35~25mm²	0.35~120mm²
Wheel Thickness	0.5/1mm	0.6mm
Rotating Speed	2700rpm(max)	2700rpm(max)
Corrosion	Acid corrosion	Electrolytic corrosion
Processing Time	3~5min	2~6min
Camera	500M, USB 3.0	300M, USB 3.0
Hd Microscope	27.3~195x	27.3~195x
Cross Section Analysis Software	HACINT Cross section system ( HCSS )	X-scan ( Germany ) /HCSS (Optional)
Power Supply	AC220V/50Hz	AC220V/50Hz
Dimensions	L1840×W640×H1185mm	L2460×W640×H1290mm



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

Introduction

HBQ-06X Digital pull tester series are specially used to test the pull-out force of the crimped terminals, welded terminals and the seals. Embedded system is adopted with high efficiency, notable stability and high precision. HBQ-06X pull testers are able to integrate the network port and meet the demands of networking in the modern factory.



HBQ-061C



HBQ-064



HBQ-065/065E



HBQ-411

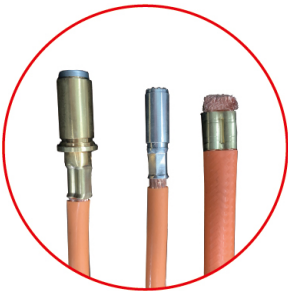
Function

- **Auto-reset:** Be able to set the conditions of the auto-reset and reset automatically after pulling the terminal off;
- **System setting:** it's convenient to set the parameters, such as the up and down limits, calibration and the condition of pulling out;
- **Force limits:** Alert when the pull force exceeds the limits;
- **Unit switch:** Quick switch between Kg and N and any of them can be set as the default;
- **Communication connection:** Sending commands through the serial port can control the tester and return the peak force data.  
Text data can also be returned via USB data interaction or imported into the MES system;
- **Data display:** Display the real-time and peak force simultaneously;
- **Data processing:** The test data can be recorded, transmitted, eliminated, which make the data processing easy.

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)
Data Acquisition Speed	1kHz			
Measuring Range	5~500N /0.5~50kg	5~1000N /0.5~100kg	5~2000N /0.5~200kg	40N~10kN /4~1000kg
Applied Force Accuracy	± 1%	± 1%	± 2%	± 0.5%
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 for detecting the pull-out force of large square wire harness and terminals, capable of detecting pull force up to 10000N.

Features

- **Compact:** Exquisite and desktop;
- **Flexible:** The tension plate and fixture can be customized to adapt to different wire harnesses;
- **Powerful:** The testing process is controlled by a microcomputer, which can dynamically display the tension value, displacement value, deformation value, testing speed, and testing curve in real time.

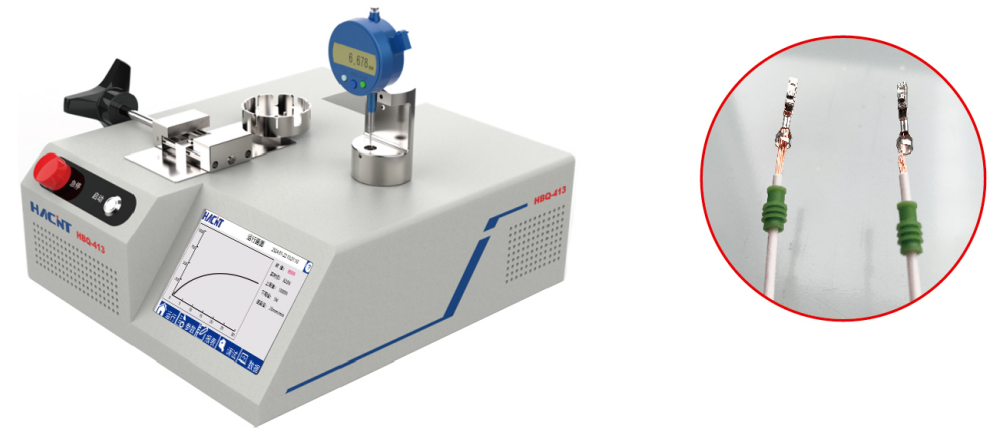
Specifications

Power Supply	220V/50Hz
Frequency	30Hz
Testing Speed	20~300mm/min
Weight	30kg
Maximum Test Force	10kN
Measuring Accuracy	± 0.5%
Maximum Stroke	120mm
Dimension	L490 × W185 × H230mm

Relate Product /Optional

Optional accessories: Customizable tooling

HBQ-413 MICROMETER TENSION TESTER



Introduction

HBQ-413 is a micrometer integrated tension tester for crimping height detection and tension testing.

Features

- Can carry out height and width detection and data processing;
- Pull disc and fixture can be customized to adapt to different wiring harnesses;
- Microcomputer is used to control the whole test process, which can dynamically display the tension value, test speed and test curve in real time;
- Can achieve 0.2 precision tension measurement, and calibration is convenient;
- The force-time curve can be displayed on the screen, and the report can be exported;
- With the requirements of equipment networking, convenient networking.

Specifications

Power	220V/50Hz	Max Tension	1000N
Frequency	1kHz	Measurement Accuracy	± 0.2%
Speed	20~100mm/min	Max Stroke	35mm
Weight	18kg	Dimensions	L380 × W270 × H245mm

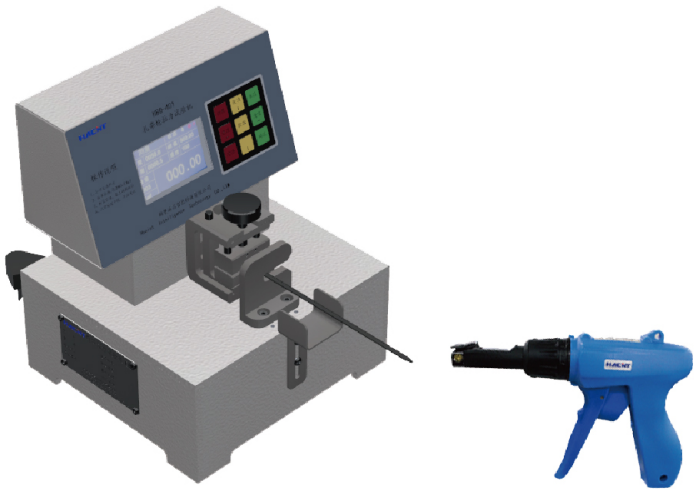
Relate Product /Optional

Optional accessories: tooling can be customized

HBQ-401 CABLE TIE GUN TENSION TESTER

Introduction

HBQ-401 cable tie gun tension tester is a special measuring equipments used for detecting the force when the cable tie gun cuts the tie.



Features

- The machine prefers industrial gray as basic color to make the whole machine structure simple but generous;
- **Data display:** Display the real-time and peak force simultaneously;
- **Data processing:** Recording the data when testing. Data could be conveyed and removed which make the data easy to be processed;
- **Unit switch:** Quick switch between kg and N and any of them can be set as the on state;
- **Force limits:** Set the limits of the testing force. Alert when the tension force exceeds the limits;
- **System setting:** Setting page is available for setting the parameters, such as the tension force limits, calibration and the condition of pulling out;
- Friendly PC interface with vivid and direct graph pictures enhance the visibility and operation.

Specifications

Type	HBQ-401
Max Testing Force	500N
Accuracy Class	± 1%
Measuring Range	0.5% ~ 100%FS (Full Scale)
Tolerance	Within ± 1% of the indicated value
Power Supply	AC220V/50Hz
Data Acquisition Speed	1KHz
Power	5W (max)
Dimensions	L210 × W200 × H255mm
Weight	10kg



HBQ-K612 168W BTB CONNECTOR MACHINE



Introduction

168W board end connector machine is an automatic production line, the main functions of the equipment include automatic cutting of pins, terminals into the injection molding machine, finished product removal, guard assembly, line laser position scanning detection, conductive voltage testing, air tightness testing, laser marking, product cleaning, only one operator to complete the operation. The terminal cutting pins are inserted at a speed of up to 8 pins/s using a high speed and high precision servo-flexible structure, a single product pin is inserted at 168 pins, a six-axis robot is used to pick and place the pins, and the production injection beat is 40s (two holes in one applicator).

Features

- Beautiful layout, simple and elegant overall structure, easy to operate;
- The use of two flexible pin-cutter modules for simultaneous operation, significantly increasing the production cycle time;
- High efficiency and accuracy with servo-flex structure for terminal cutting and pin insertion, pin insertion speed up to 8 pins/s, pin insertion accuracy ± 0.02mm;
- Cutting tool life up to 100W times;
- Safe operation, using a protective net to isolate the manipulator;
- Handling with a six-axis manipulator with a 2700mm radius of movement, with a large manipulator operating range and high load capacity;
- 3D line laser detection of terminal position on both sides of the sheath, with an image position detection accuracy of ± 0.04mm.

Specifications

Power Supply	220V AC	Temperature	< 40℃
Power	15kW	3d Inspection Accuracy	± 0.04mm
Equipment CT (168pin)	40s (Two holes in one applicator)	Pin Insertion Speed	180rpm
		Pin Insertion Accuracy	± 0.02mm
Noise Level	≤ 75dB	Dimensions	L6300 × W3000 × H2100mm
Air Supply	0.5~0.6MPa	Weight	7000kg

HBQ-Z108 8-DISK HORIZONTAL TERMINAL RECEIVER

Introduction

HBQ-Z108 is the horizontal terminal receiver with 8 disks to be used for winding tapes.

Features

- **Strong winding capacity:** 36m or 2000 winding per minute (based on the firstly triggered value);
- **Small space occupation:** The material tray is placed horizontally to reduce the length and width of the equipment;
- **Simple operation interface:** easy to learn and operate, friendly and convenient article adjustment;
- **Counting accuracy:** ± 6‰;
- **Modular design and strong expansion ability:** It can be customized according to customer requirements, including feeding and storing module, moving up and down module, cutting module, plate module, etc.

Specifications

Type	HBQ-Z108
Power Supply	AC220V/50Hz
Power	1.3kW
Applicable Pressure	0.5~0.7MP
Dimensions	L2400 × W1200 × H3050mm
Weight	550kg

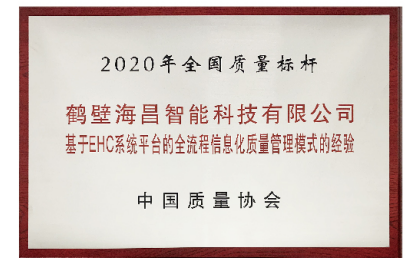




National High-tech Enterprise



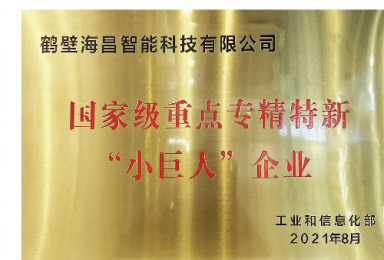
3A Class Enterprise by CAAM



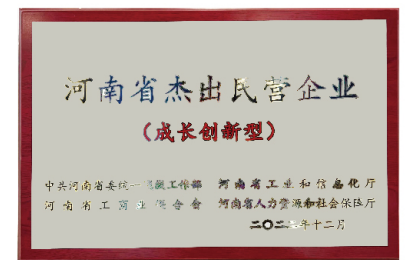
National Quality Benchmark



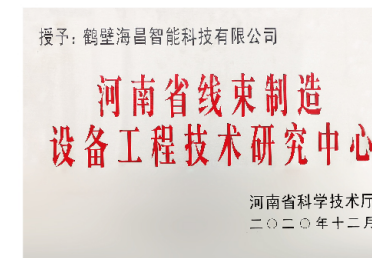
Smart Factory in Henan Province



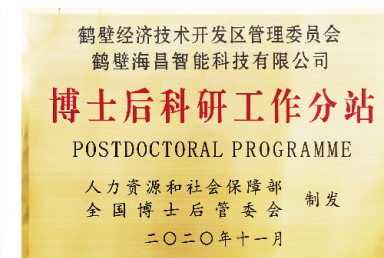
National Specialized and New "Small Giant" Enterprise



Digital Service Provider for SMEs in Henan Province



Wire Equipment R&D Center in Henan Province



Post-doctoral Sub station



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