

JW Wire Harness Auxiliary Equipment Catalog

Cable Assembly Supporting Machines for Enhanced
Production Efficiency

Professional wire harness auxiliary equipment — cable tie tensioning & cutting machines, heat shrink tubing bakers, terminal crimping & housing insertion machines, and tinning/twisting machines. Engineered for precision, reliability and global wire harness manufacturing standards.

XIAMEN JINGWEI TECHNOLOGY CO., LTD.

ed Cable Tie Automatic Tensioning
and Cutting Machine



JW-SLQ

Mini Automatic Heat Shrink Machine for
Cable Insertion and PVC Tubing Baking



JW-HST-05B

Double-End Terminal Crimping
& Housing Inserting Machine



JW-CK01

Fully Automatic Intelligent
Double-Head Housing Insertion Machine



JW-DHHI

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Product Overview

Cable tie machines, heat shrink tubing bakers, terminal crimping & housing insertion machines for wire harness production lines



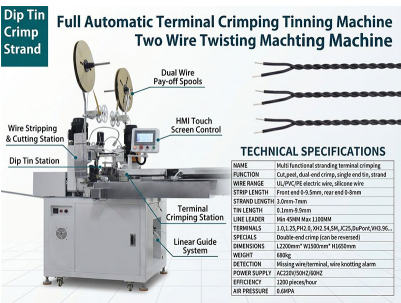
JW-SLQ
Fixed Cable Tie Automatic Tensioning and Cutting Machine (Inductive Trigger)



JW-HST-05B
Mini Automatic Heat Shrink Machine for Cable Insertion and PVC Tubing Baking



JW-CK01
Double-End Terminal Crimping & Housing Inserting Machine



JW-WTT
Full Automatic Terminal Crimping Tinning Machine Two Wire Twisting Machine



JW-DHHI
Fully Automatic Dual-Head Terminal Crimping, Tinning & Housing Insertion Machine



JW-100ST-01
Universal Heat Shrink Tubing Baking Machine

Fixed Cable Tie Automatic Tensioning and Cutting Machine (Inductive Trigger)



Description

The JW-SLQ Fixed Cable Tie Automatic Tensioning and Cutting Machine with inductive trigger is purpose-built for automotive and wire harness cable tie binding. Unlike manual cable tie guns that require labor-intensive pulling and cutting, this fixed gun-head unit automates the tensioning and cutting cycle: operators simply place the cable tie into the cavity plate, arrange the wire harness, and thread the tie to the induction position — the internal feed wheel then automatically tensions and cuts the tail in about 1-1.5 seconds. Features include 3-level adjustable tension via a scaled side screw, adjustable tail length by changing fixture plate thickness, wide cable tie compatibility through replaceable fixture plates, a compact 150×50×150mm body for easy workstation mounting, and safe DC 24V power supply. Ideal for automotive harness production and other high-volume cable binding applications.

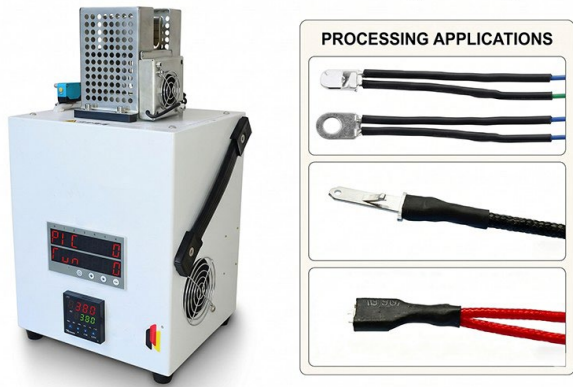
Parameter	Value
Model	JW-SLQ
Cable Tie Thickness	0.8mm-1.6mm
Binding Efficiency	1-1.5 seconds/cycle (100mm tie)
Power Supply	DC 24V
Dimensions	L150×W50×H150 mm
Tie Compatibility	Replaceable fixture plate for various ties
Tension Adjustment	3-level adjustable with scale screw
Tail Length	Adjustable via fixture plate thickness

Key Features

- Inductive trigger — auto tension & cut when tie reaches sensor
- Fast cycle: 1-1.5s per tie, greatly boosting harness binding efficiency
- Adjustable tension & tail length; replaceable fixture plate for multiple tie types

Mini Automatic Heat Shrink Machine for Cable Insertion and PVC Tubing Baking

Mini Automatic Heat Shrink Machine for Cable Insertion and PVC Tubing Baking



Description

The JW-HST-05B is a compact, high-efficiency mini automatic heat shrink machine designed for cable insertion, pressing, forming, and PVC tubing baking in wire harness processing and electronic assembly. Its 400×200×200mm footprint and approx. 6kg weight allow easy movement and installation on any production workstation. Intelligent temperature control delivers precise, stable heating for uniform shrinkage, achieving up to 99% yield rate with proper operator training. Production efficiency ranges from 600 to 1200 pieces per hour depending on tubing length and diameter. The machine supports baking lengths of 5-120mm and pipe diameters of Φ2.0-Φ45mm, compatible with PVC and other heat-shrink tubing materials. Equipped with sensing switches and a reliable control system for safe, durable operation. Protected by multiple patents including invention, utility model, and design patents. Ideal for manual insertion and semi-automatic production lines handling small to medium batch manufacturing.

Parameter	Value
Model	JW-HST-05B
Power Supply	AC 220V 50/60Hz
Baking Length	5mm-120mm
Baking Pipe Diameter	Φ2.0mm-Φ45mm
Efficiency	600-1200 pcs/hour
Yield Rate	Up to 99%
Power	1.6/2/3 kW
Dimensions	400×200×200 mm
Weight	Approx. 6 kg

Key Features

- Compact & lightweight (400×200×200mm, ~6kg) for flexible workstation placement
- Intelligent temperature control for uniform, consistent heat shrink results
- High efficiency 600-1200 pcs/h with up to 99% yield rate

Double-End Terminal Crimping & Housing Inserting Machine



Description

The JW-CK01 Double-End Terminal Crimping & Housing Inserting Machine is a fully automatic integrated wire processing machine that combines wire cutting, stripping, double-end terminal crimping and housing insertion in a single automated workflow. It is widely used in precision wire harness production for new energy, home appliances, 3C electronics, connectors and automotive industries. The machine employs high-quality components including ball screws, linear guides, servo motors/drives, stepper systems, air pressure regulators, solenoid valves, vision inspection systems, fiber amplifiers, and touch screen controls — delivering stable performance, high precision and easy operation. It processes AWG30#-AWG16# wires at lengths from 90mm to 900mm with 1.5-ton crimping force, achieving 1,600-2,600 pieces per hour (based on 100mm wire). Built-in detection covers visual inspection, wire absence detection, air pressure monitoring, terminal shortage detection; optional pull force and pressure monitoring available. Standard configuration includes an 8-axis tension pay-off stand and finished product conveyor. Effectively improves production efficiency and product consistency while reducing labor costs.

Parameter	Value
Model	JW-CK01
Applicable Wire Gauge	AWG30#-AWG16# (customizable)
Processing Length	90mm-900mm (customizable for longer)
Crimping Force	1.5 tons (customizable)
Capacity	1,600-2,600 pcs/hour (100mm wire)
Detection Devices	Vision inspection, wire absence detection, air pressure monitoring
Optional	Pull force & pressure monitoring
Auxiliary Devices	Waste paper winding, wire scrap collection, tape cutting
Standard Config	8-axis tension pay-off stand, finished product conveyor
Machine Dimensions	L2200×W1800×H2200 mm
Installation Space	L3200×W4000×H2200 mm

Key Features

Fully automatic all-in-one: cutting, stripping, double-end crimping & housing insertion

High-precision servo drive + vision inspection for consistent quality

1,600-2,600 pcs/hour capacity with CCD defect detection & auto-rejection

Full Automatic Terminal Crimping Tinning Machine Two Wire Twisting Machine



Description

The JW-WTT Full Automatic Terminal Crimping Tinning Machine with Two Wire Twisting is a professional industrial solution for automated, high-precision, high-efficiency wire processing. It integrates two-wire twisting, terminal crimping and tinning into a single automated system, completely replacing manual operation and greatly improving production efficiency while ensuring product consistency and stability. Equipped with an advanced PLC control system and touch screen interface, it performs automatic wire feeding, cutting, peeling, two-wire twisting, terminal crimping, tinning and blanking without manual intervention. High-precision servo motors and ball screw drives accurately control wire feeding, twisting, crimping and tinning positions — delivering uniform twisting pitch, stable crimping force and consistent tinning thickness. The machine supports wire diameters of 0.5-2.5mm², adjustable twisting pitch of 3-10mm, tinning length of 0.5-10mm, wire lengths of 50-1500mm, and achieves 800-1200 pieces per hour. Features include multiple safety protections (overload, emergency stop, wire break alarm), durable wear-resistant construction, and easy maintenance. Widely applied in automotive, home appliance, electronic equipment, communication, medical and industrial control wire harness production.

Parameter	Value
Model	JW-WTT
Core Function	Two-wire twisting, crimping, tinning, cutting, stripping
Applicable Wires	UL/PVC/PE wire, silicone wire, multi-strand copper wire
Wire Diameter Range	0.5-2.5 mm²
Twisting Pitch	3-10mm (adjustable)
Tinning Length	0.5-10mm (adjustable)
Wire Length Range	50-1500mm (adjustable)
Production Efficiency	800-1200 pcs/hour
Power Supply	AC220V / 50/60Hz, 1.5KW
Air Pressure	0.5-0.7 MPa
Machine Dimensions	L2200×W1500×H1650 mm
Net Weight	680 kg

Key Features

- 3-in-1 integration: two-wire twisting + terminal crimping + tinning in one machine
- Full automatic PLC + touchscreen control, no manual intervention needed
- High-precision servo & ball screw drive for uniform twisting & consistent tinning

MODEL: JW-WTT

Fully Automatic Dual-Head Terminal Crimping, Tinning & Housing Insertion Machine



Description

The JW-DHHI is a fully automatic integrated wire harness processing machine that combines wire cutting, precision stripping, dual-head terminal crimping, single-end wire twisting & dip tinning, dual/single-end housing insertion, and long-short wire processing in one automated workflow — purpose-built for high-precision, high-efficiency wire harness manufacturing. It is equipped with an intelligent touchscreen control with programmable digital interface and parameter storage for easy setup and fast product changeover. The high-performance silent hybrid servo drive delivers high precision, stable motion and fast processing speed. A universal twisting mechanism automatically resets for different wire diameters without manual adjustment for strong compatibility. The adjustable-frequency slope-type vibratory feeder ensures smooth, non-scratching, non-jamming material supply, while the rotary manipulator improves housing insertion stability and simplifies terminal and housing inspection. Dual-channel crimping force monitoring plus CCD visual inspection provides real-time defect detection with automatic sorting and rejection of defective products and clear fault location display. Produces consistent crimping and uniform tinning for mass production of electronic, automotive, home-appliance and industrial wire harnesses. Achieves 1300-1700 pieces per hour for 2PIN 5-position short wires.

Parameter	Value
Model	JW-DHHI
Applicable Wire	AWG18#-AWG32#
Cutting Length	50mm-800mm
Stripping Length	0.1mm-10mm
A-End Stripping	0.1mm-8mm (with twisting & tinning)
B-End Stripping	0.1mm-10mm (without twisting & tinning)
Conduit Diameter	1.5mm-5mm
Crimping Position	Digital adjustment
Power Supply	AC 220V 50/60Hz
Dimensions	2340×2100×1700 mm
Weight	Approx. 1000 kg
Capacity	1300-1700 pcs/hour (2PIN 5-position short wires)

Key Features

All-in-one dual-head crimping + single-end twisting/tinning + housing insertion
 CCD visual inspection + dual-channel crimping force monitoring with auto-rejection
 Intelligent touchscreen + silent hybrid servo drive for high precision & fast changeover

MODEL: JW-DHHI

Universal Heat Shrink Tubing Baking Machine

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ORIGINAL MANUFACTURER

UNIVERSAL

HEAT SHRINK TUBE

MACHINE

FREE SAMPLE TESTING

☒ Automatic Tube Cuitting & Baking

☒ Tube Range: ϕ 2.0- ϕ 10.0

☒ Standard Manipalutor Wire Pickup

☒ Support Custom Fiatures

APPLICABLE TO WIRING HARNESS WIRES, POWER CONNECTORS, NON-INSULATED TERMINALS, ETC.



Description

The JW-100ST-01 Universal Heat Shrink Tubing Baking Machine is an industrial-grade solution for automatic heat shrink tubing processing on wire harness terminals. Equipped with an industrial automation PLC and HMI control system featuring a 4.3-inch color TFT display, it delivers simple operation, stable performance and high efficiency. The machine automatically feeds heat shrink tubing, allows free setting of baking length, and supports welding position adjustment via a positioning device. It achieves a fast 2.2-second operation cycle with capacity of 700-2500 terminals per hour depending on manual loading speed. High compatibility is achieved through replaceable jigs, enabling processing of various wire specifications with tubing diameters from Φ 1.0 to Φ 6.5mm (customizable for Φ 7.0 and above). Baking length ranges from 4mm to 50mm with optional jigs, and baking temperature is adjustable from 200°C to 380°C. All series are equipped with an automatic manipulator for wire picking (standard wires), digital temperature control with heating abnormality monitoring, automatic protection when air pressure is too low to extend service life, and a one-key system recovery function to prevent parameter setting errors. Forced air cooling ensures stable continuous operation.

Parameter	Value
Model	JW-100ST-01
Input Voltage	220V-AC
Frequency	50/60Hz
Rated Power	1350W
Display	4.3 inch Color TFT
Operation Cycle	2.2 seconds
Operation Mode	Passive (semi-auto)
Control System	PLC + Touch Screen
Tubing Compatibility	Φ 1.0- Φ 6.5mm (customizable above Φ 7.0)
Baking Length	4mm-50mm (with optional jig)
Baking Temperature	200°C-380°C (adjustable)
Air Pressure	5.5/6.5 KPa
Cooling Method	Forced Air Cooling
Dimensions	L500×W640×H1300 mm
Weight	78 kg

Key Features

- PLC + 4.3" color TFT touch screen control, simple operation & stable performance
- Fast 2.2s cycle with 700-2500 terminals/hour capacity
- Auto manipulator, digital temperature control & low-air-pressure protection

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Request a Quotation

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