

# **Box Wrapping Machine**



**Pursuing Excellence And Striving For Progress** 

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### 1. About Box Wrapping Machine

At present, the maturity of the industry's molding machines is very high, from manual molding in the past to fully automated ones now.

**High efficiency:** The packaging box forming machine adopts mechanized devices and intelligent control systems, which can achieve high-speed continuous packaging, significantly improve production efficiency, reduce manual intervention, and shorten packaging time.

**High precision:** The equipment adopts advanced control systems and precision molds to ensure that the size, shape, and sealing of each packaging box meet the standards, improving the consistency of product quality.

**Multi functional:** The packaging box forming machine is suitable for packaging various items and can be adjusted according to the characteristics of different products, with strong adaptability. The equipment can package boxes of various shapes and sizes to meet different production needs.

**Intelligent control:** Modern fully automatic box packaging machines are equipped with intelligent control systems that operate and monitor through touch screens or other human-machine interfaces. Intelligent control systems can monitor equipment status in real-time, handle abnormal situations in a timely manner, and improve equipment stability and reliability.

**Easy to operate:** The operation interface is simple and clear, and only requires pressing the corresponding button to run, suitable for workers without operating experience.

**Good reliability:** All components are made of legitimate products from well-known manufacturers, with a low probability of failure. The equipment is equipped with protective devices, and the internal coil voltage is low, ensuring safe operation

For regional and unilateral uncertainties, Juxin Machinery also categorizes and optimizes the selection of machine categories. Juxin Machinery has always adhered to the principle of customer first, and has been developing and optimizing equipment to serve every customer.

### Introduce

Wenzhou Juxin Machinery Co., Ltd. was established in 2011 and is a professional enterprise located in Rui'an City, Zhejiang Province, specializing in the production of gift box automation machinery equipment. Its main products include complete sets of heaven and earth cover equipment, cover machines, slotting machines, and complete sets of folder equipment. The product is widely used in the production and packaging of gift boxes, mooncake boxes, mobile phone boxes, shoe boxes, desk calendars, folders, hardcover books, etc.

The company is a technology-based mechanical equipment manufacturing enterprise that focuses on development, production, sales, and after-sales service. Based on technology, guided by customer requirements, and guaranteed by comprehensive after-sales service, "Juxin" people rely on continuous research on advanced technology to meet the needs of enterprises. By using it, the enterprise has achieved significant development.

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Since the establishment of the enterprise, we have adhered to the belief of "customer first, strict quality control, emphasis on brand, pursuit of excellence, emphasis on reputation, and surpassing ourselves", continuously improved the internal and after-sales service mechanism of the enterprise, strengthened internal management, actively participated in market competition, continuously introduced and absorbed high-tech, and committed to the development and research of new products. We have produced a series of advanced equipment, and our products are sold well in more than 30 provinces, municipalities and autonomous regions at home and abroad

It is highly favored and praised by domestic and foreign users in multiple countries and regions.

Juxin Machinery has always been dedicated to the development and research of packaging machinery equipment, committed to providing professional and high-quality products and supporting services for domestic and foreign users. Juxin "will always adhere to the corporate philosophy of" quality casting Juxin brand ", make good products, strengthen the enterprise, and create a world-class" Juxin "brand.



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## 2. Equipment Introduction

Product: Heaven and Earth Cover Forming Folding Machine

Model: JX-430 JX-540 JX-650



#### 1.1Main accessories

Servo motor: INOVANCE (China)

•PLC: Panasonic (Japan)

7-inch touch screen: WEINVIEW (Taiwan)Cylinder components: Air TAC (Taiwan)

Guide rail: Air TAC (Taiwan)Screw rod: Egus (Germany)

•Travel limit switch: Schneider (France)

Button switch: Schneider (France)

•Plastic bearings:Egus (Germany)

Bearing: Harbin (China)

Stepper point machine: YAKO (China)Safety Light Curtain: Panasonic (Japan)

Precision Pressure Regulating Valve: SMC(Japan)

Digital pressure gauge: SMC(Japan)

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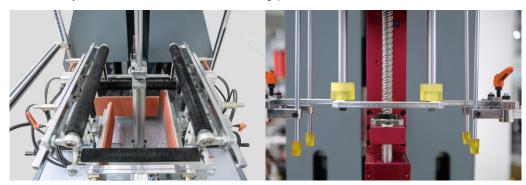
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- 1.2Machine features
- (1). The machine adopts servo pneumatic and PLC control.
- (2). The machine is easy to debug through the human-machine interface.
- (3). All control components of the machine are made of international high-end brands, with few faults and high precision.
- (4). Machines that touch the emergency stop switch, such as pressing the automatic stop button.



- (5). The manual heaven and earth cover forming and folding machine manually positions the inner box and face paper on the assembly line, and then puts the positioned paper box onto the machine's wooden mold. The machine completes the operations of pasting, folding, and pressing bubbles on its own, and the entire process is simple and easy to implement.
- (6). Due to the mechanical completion of each action and standardized production of the product, the quality of the product has been greatly improved.
- (7). The whole machine is fully controlled by pneumatic control, with a simple and reasonable structure. Debugging is completed through a human-machine interface selection method, which is simple and easy to adjust.
- (8) Low failure rate: All control components adopt high-end national standard brands, with low failure rate and high precision. If there is a malfunction in the machine, it will be directly displayed on the screen for easy troubleshooting.
- (9) This type of machine can produce 15-25 hardcover boxes per minute, greatly improving the production efficiency of hardcover boxes and saving production costs.



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#### 1.3 Product Details

**Durable and sturdy**: Made of high-quality materials, it has high durability and reliability, and can work stably in various environments.

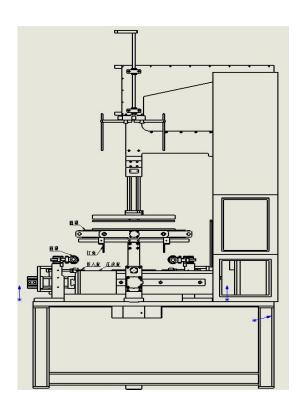
**Quick response**: With a fast response time, it can quickly respond to user operations and provide a smooth user experience.

**Multifunctionality**: It has multiple functions, such as supporting multiple data transmission interfaces, built-in memory, etc., which can meet different data transmission and storage needs.

**High cost-effectiveness**: Compared to other brands' touch screens, it has a price advantage and high cost-effectiveness, making it suitable for users with limited budgets.

**Wide application scenarios**: Suitable for various application scenarios, such as industrial automation, monitoring systems, etc., with a wide range of market applications.

**Technical support**: Provide rich technical support and programming software to facilitate user development and debugging.



## 1.4 Debugging process

- 1. Connect the single-phase 220V power supply, connect the air source, and check if the four pointers of the recessed cylinder are working properly. Click the 'Reset' button to check if the device is functioning properly.
- 2. Switch to debugging mode, replace the mold, and adjust the machine position.
- 3. Log in to the manual page, click on "Mold opening servo" or "Mold opening assistance descent", level the bottom and middle of the upper mold, then switch to the "Settings page", long press "Upper mold" to set the position.
- 4. Log in to the manual page, click on "Spindle Servo Downward" to lower the spindle servo to the

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position of the impact angle cylinder, click on "Impact Angle Cylinder" to start the impact angle flat brush, adjust the bottom of the flat brush to a position 5-8mm higher than the bottom of the inner box, log in to the settings page, and long press "Impact Angle" to set the position.

5. Log in to the manual page, click "Spindle servo descending", and the spindle servo descends to the foam plate position.

Model	JX-430	JX-540	JX-650
Max finished product size	400*300*110mm	500*400*150mm	650*500*180mm
Min finished product size	35*35*8mm	80*60*8mm	40*40*8mm
Speed	15-20 pcs/min	15-20 pcs/min	15-20 pcs/min
Pressure	≥0.6Mpa	≥0.6Mpa	≥0.6Mpa
Power	2.5kw/220V	2.5kw/220V	3.5kw/220V
Dimensions	1000*1300*2150mm	1000*1300*2150mm	1500*1200*2350mm
Wooden crate size	1220*1510*2250mm	1220*1510*2250mm	1660*1380*2510mm
Weight	800kg	1100kg	1180kg
СВМ	4.2	4.2	5.9

Product: Automatic Mold Adjustment Heaven and Earth Cover Forming Folding Machine

Model: JX-500A, JX-600A



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#### 2.1Main accessories

Servo motor:XINJE (China)

Motion Control PLC: XINJE (China)

•7-inch touch screen: WEINVIEW (Taiwan)

Cylinder components: Air TAC (Taiwan)

Guide rail: Air TAC (Taiwan)Screw rod: Egus (Germany)

•Travel limit switch: Schneider (France)

Button switch: Schneider (France)

Blacking to a sign of France (Company)

Plastic bearings:Egus (Germany)

Bearing: Harbin (China)

Safety Light Curtain: Panasonic (Japan)

Precision Pressure Regulating Valve: SMC(Japan)

Digital pressure gauge: SMC(Japan)

#### 2.2 Machine Features

**Servo motor and pneumatic technology**: The equipment uses servo motors to provide power and achieves precise control of various actions through pneumatic technology. Servo motors have the characteristics of high precision, high stability, and high response speed, ensuring the stable operation and precise control of the equipment.

**PLC programming control**: The control system of the equipment adopts PLC programming control, which can achieve precise control and coordination of various actions. PLC has the advantages of high reliability, flexible programming, easy maintenance and expansion, providing strong guarantee for the stable operation of equipment.

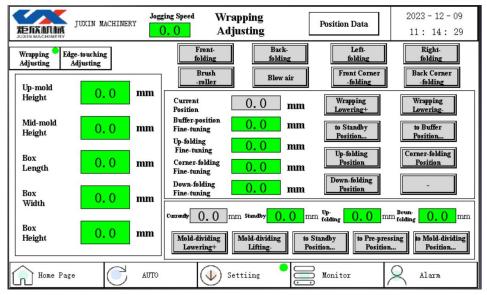
**Human machine interface**: The device is equipped with a human machine interface, allowing operators to select debugging parameters and monitor the device's operating status through the interface. The human-machine interface has the characteristics of being intuitive and easy to operate, greatly reducing the difficulty of operation and debugging time.

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This equipment is an ideal automation device for producing gift boxes and hard boxes. It combines advanced servo motor and pneumatic technology, and achieves automation of a series of actions such as loading, folding, and forming through PLC programming control. By manually positioning the inner box and dough on the assembly line, placing the fixed box into the machine's wooden mold, the equipment can automatically operate, greatly improving production efficiency.

Efficient production: 15-20 boxes can be produced per minute, greatly improving production efficiency compared to traditional manual production methods.

Cost savings: Due to the use of standardized mechanical defense products in the production of the equipment, every action is precisely controlled, greatly reducing production costs.

Improving quality: The automated production of equipment ensures that the size, shape, and appearance of each box meet uniform standards, thereby improving the quality of the product.

Flexible debugging: The debugging of the equipment is completed by selecting the human-machine interface, which is easy to operate and adjust, and can be quickly adjusted according to different production needs.



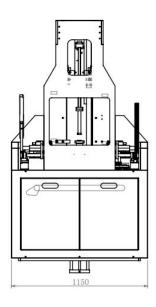
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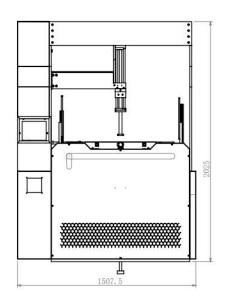
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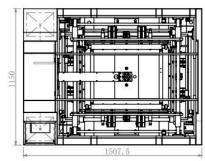
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Model	JX-500A	JX-600A
Max finished product size	500*450*120mm	600*480*150mm
Min finished product size	100*60*10mm	100*60*10mm
Speed	15-22 pcs/min	15-22 pcs/min
Pressure	≥0.6Mpa	≥0.6Mpa
Power	8kw/220V (3kw/380V)	8kw/220V(3kw/380V)
Dimensions	1550*1210*1950mm	1600*1260*2100mm
Wooden crate size	1670*1300*2270mm	1700*1360*2370mm
Weight	980kg	1050kg
CBM	3.8	4.5

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Product Name: High speed automatic mold adjustment box forming machine

Model: JX-420ZDB, JX-650ZDB



#### 3.1Main accessories

• Servo motor: XINJE (China)

Motion Control PLC: XINJE (China)
7-inch touch screen: XINJE (China)
Cylinder components: Air TAC (Taiwan)

Guide rail: Air TAC (Taiwan)Screw rod: Egus (Germany)

• Travel limit switch: Schneider (France)

Button switch: Schneider (France)Plastic bearings: Egus (Germany)

• Bearing: Harbin (China)

• Precision Pressure Regulating Valve: SMC (Japan)

•Digital pressure gauge: SMC (Japan)

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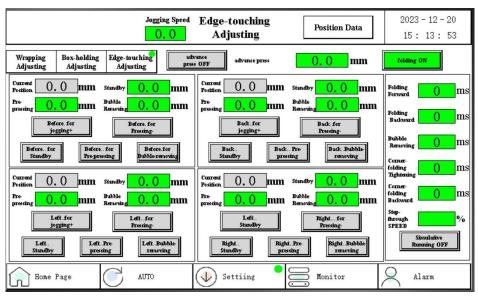


#### 3.2 Machine Features

The automatic sensing arm can precisely control the operation process, achieve fast and accurate operation, reduce waiting and idle time in the production process, and significantly improve the production line's capacity. In addition, they can complete a large number of repetitive tasks within a specified time frame

PLC is made of sturdy and durable components that can operate reliably in harsh environments. They have strong resistance to electrical noise, voltage fluctuations, and temperature changes.

Convenient programming: PLCs are programmed using ladder logic language, which is similar to electrical drawings and allows programmers to easily understand and modify control logic. In addition, many PLC manufacturers offer intuitive programming software that simplifies the development process.



Strong adaptability: PLC can be easily reprogrammed to meet constantly changing control requirements. They can handle a wide range of input and output signal types, and through modular design, functional modules 1 can be added or removed as needed.

High cost-effectiveness: PLC has been highly standardized and mass-produced, thereby reducing costs. They are easy to install and maintain, reducing downtime and maintenance costs.

Space saving: PLCs adopt a compact design, which takes up less space compared to other control systems. This is particularly valuable for applications with limited space.

Easy to maintain: The PLC control system is easy to design, install, debug, and maintain, with a small maintenance workload of 34.

Powerful features: Modern PLCs provide advanced control functions such as motion control, process control, and data acquisition, meeting industry standards.

The application of programmable control systems in different industries:Methods to improve the reliability of programmable control systems:

A well-designed fault alarm system: In the design of the automatic control system, a 3-level fault display system is designed to promptly detect problems and prompt operators to troubleshoot as soon

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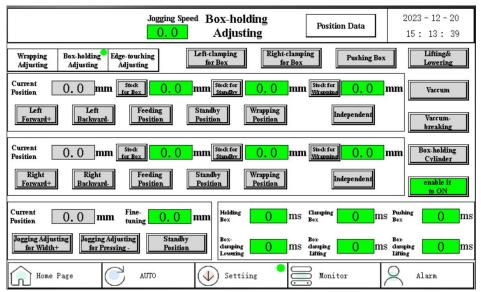
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as possible.

Use high-quality power supplies and input/output devices: Ensure that the power supply voltage level, frequency, and ripple factor meet the requirements, and choose high-quality input/output devices such as proximity switches, contactors, etc





Robotic arms can significantly improve work efficiency, reduce the number of manual operations and workload. Realize full automation.

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The basic unit circuit structure of digital circuits is simple, allowing for significant component dispersion and facilitating large-scale integration

Servo motors have advantages such as high precision, fast response, strong stability, multifunctionality, and energy saving and environmental protection during the bubble pressing process, making them suitable for bubble pressing processes that require high precision and stability.

Model	JX-420ZDB	JX-650ZDB
Max finished product size	500*400*120mm	600*500*150mm
Min finished product size	100*70*18mm	100*70*18mm
Speed	15-25 pcs/min	15-25 pcs/min
Pressure	≥0.6Mpa	≥0.6Mpa
Power	4.5kw/三相 380V	4.5kw/三相 380V
Dimensions	1260*1700*2000mm	1550*1800*2100mm
Wooden crate size	1360*1800*2100mm	1650*1900*2200mm
Weight	960kg	1100kg
CBM	4.5	4.5
Short models are		
equipped with a water	780-870mm	780-870mm
line height		
High end models are		
equipped with a water	1050-1100mm	1050-1100mm
line height		

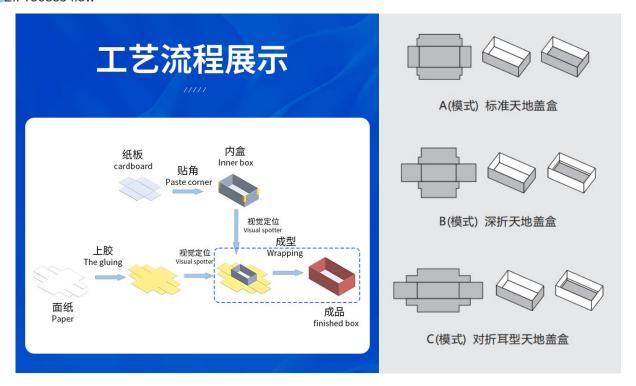
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#### 2.Process flow



## 3. Product Display

This device is widely used in gift packaging, food packaging, pharmaceutical packaging and other fields, and is suitable for the production of gift boxes and hard boxes of various shapes and sizes. In summary, this automated production equipment for gift boxes and hard boxes has become an ideal choice for the modern packaging industry due to its high efficiency, cost savings, and improved quality. We believe that in future development, it will provide better services and more efficient production experiences for more customers.



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The future development of the company will be a process full of challenges and opportunities, requiring continuous innovation and optimization of management to adapt to market changes and meet customer needs.

#### Market outlook

In the future, market competition will become more intense and industry development will become more diversified. With the advancement of technology and the trend of globalization, the demand for products and services in the market will become more personalized and differentiated. The company needs to have a keen insight into market trends, seize market opportunities, continuously innovate products and services, and enhance market competitiveness.

### **Employee Outlook**

Employees are the most valuable resource of a company, and in the future, the company needs to pay more attention to their development and growth. The company will focus on employee training and skill enhancement, improving their professional quality and comprehensive abilities to adapt to future market demands and the development of the company's business. At the same time, the company also needs to better motivate employees, maintain their enthusiasm and creativity, and enable them to grow together with the company.

#### **Technology Outlook**

The future prospects of work will rely more on technological innovation. With the rapid development of information technology, companies need to introduce advanced technological means to improve production efficiency and product quality. The company also needs to focus on technology research and development, promote technological innovation, and continuously launch more competitive products and solutions.

## **Management Outlook**

The company needs to standardize and optimize its management system, introduce modern management concepts and scientific management systems. At the same time, drawing on international management experience, improving management level and efficiency.

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# **Outlook on Social Responsibility**

With the development of society, companies will take on more social responsibilities, pay attention to environmental protection, public welfare undertakings, and continuously enhance the company's social image and influence.

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