

Automatic Visual Positioning Machine



炬欣机械
JUXIN MACHINERY

Pursuing Excellence And Striving For Progress

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1. About Automatic Visual Positioning Machine

With the improvement of industrial automation and intelligence, the application of automatic visual positioning machines is becoming increasingly widespread in various industries. At present, automatic visual positioning machines are widely used in fields such as electronic information manufacturing, semiconductors, automobiles, pharmaceuticals, food and packaging machinery, printing machinery, etc.

Firstly, the automatic visual positioning machine adopts advanced cameras and image processing technology, which can monitor the position and posture of materials in real time, accurately locate materials in designated positions, and even for small, irregular or irregular items, ensure that patterns are accurately printed in ideal positions. Secondly, automatic visual positioning machines can quickly and accurately identify the position and orientation of materials, enabling the robotic arm to quickly adjust its position and speed, reducing the time and effort required for manual alignment and significantly improving production efficiency, especially suitable for large-scale production.

In the future, the market for automatic visual positioning machines will develop towards machine vision, deep learning, and other directions. With the continuous advancement of technology and the emergence of new application scenarios, the market prospects of automatic visual positioning machines will become even broader.

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: Automatic Visual Positioning Machine (box/cot double)

Model: JX-HKS700



1.1 Main accessories

- Robot body: XINJE (China)
- Visual System: XINJE (China)
- Industrial Camera: DAHUA(China)
- 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)

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1.1 Machine Features

Fully automatic visual positioning is installed on the production line. Through the machine vision positioning system, the machine can automatically identify and grasp the parts to be processed, avoiding the errors and low efficiency problems in traditional manual operations. At the same time, the system can monitor various links in the production process in real time, ensuring the efficient operation of the production process. This not only improves production efficiency, but also reduces production costs, bringing considerable economic benefits to the enterprise. At the same time, the visual positioning system can also be transplanted onto existing or old mobile conveyor belts, with flexibility.

The visual system has deviation optimization, even if there is a slight deviation of the paper on the glue, the system will directly correct the position, with a tracking accuracy error of $\pm 0.2\text{mm}$.

1.3 Product Details

mechanical arm



Firstly, the robotic arm has strong flexibility and can adapt to various complex task requirements. The robotic arm adopts advanced servo motors and motion control systems, which can achieve high-speed and high-precision motion control, and quickly and accurately complete a series of actions such as grasping, handling, and stacking.

Secondly, the robotic arm is equipped with various sensors and advanced visual recognition technology, which can achieve precise perception and positioning, quickly identify items of different shapes, sizes, and colors, and automatically classify and stack them. The product adopts intelligent PLC touch screen control, and users can monitor and adjust the robot in real time through the intelligent control panel or remote control system, with simple and convenient operation

In addition, the safety of the robotic arm is high, equipped with various safety devices and sensors, which can achieve safe operation and reduce safety risks for workers. High degree of automation, able to integrate with various automation equipment and systems, realizing the components of automated production lines, improving production efficiency and reducing labor costs.

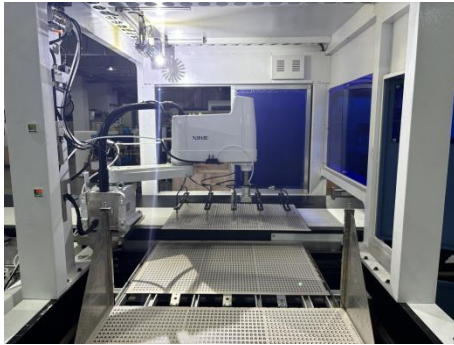
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Positioning System (Box Silo/Cot Silo Can be independently transplanted)

Model	JX-HKS700		
Paper length	30-960mm	Max size of single	600*450*120mm
Paper width	20-500mm	Min size of single	50*50*12mm
Min width of the middle strip	≤8mm	Max size of double	420*200*120mm
Cardboard thickness	1-8mm	Min size of double	80*50*12mm
Paper thickness	0.8-3mm	Speed	single ≤26min, double ≤22min
pressure	20L /min 0.8Mpa	Weight	3400kg
Dimensions			
Wooden crate size	2300*1250*1880mm(1)		2660*1520*2000mm(3)
	1780*1480*1280mm(2)		

1. 4. Combination and matching



Combination

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The front can choose the corner pasting machine



The rear can choose the box Wrapping Machine



The rear can choose the covering machine



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- Button switch: Schneider (France)
- Plastic bearings: Egus (Germany)
- bearing: Harbin (China)

2.2 Machine features

In the fields of industrial automation and precision manufacturing, automatic visual positioning technology can achieve micrometer level positioning accuracy and efficient part alignment and bonding, greatly improving production efficiency and product quality.

The difference from the previous model is that the HS700 meets the needs of users who only need to make sky and earth covers or have larger product box sizes, and requires a fully automatic sky and earth cover device to solve the current needs. Having high cost-effectiveness, it reduces equipment procurement costs for customers.

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The automatic visual positioning machine measures items through scanning, avoiding potential secondary damage hazards caused by contact measurement and improving the reliability of the system.

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Positioning System (Box Silo Can be independently transplanted)

Industrial cameras can capture dozens to hundreds of images per second, much higher than ordinary cameras.

The shutter speed of industrial cameras is very fast, which can capture high-speed moving objects clearly.

Industrial cameras output raw data with a wide spectral range, suitable for high-quality image processing algorithms such as machine vision applications

Model	JX-HS700
Max size of single	600*450*120mm
Min size of single	50*50*12mm
Max size of double	420*200*120
Min size of double	80*50*12mm
Speed	single ≤ 26min, double ≤ 22min
Accuracy	± 0.1mm
pressure	20L/min 0.8Mpa
Power	15KW/AC380V
Weight	2000kg
Dimensions	
Wooden crate size	2300*1250*1880mm(1)
	1780*1480*1280mm(2)
	1900*1500*1980mm(3)

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Combination

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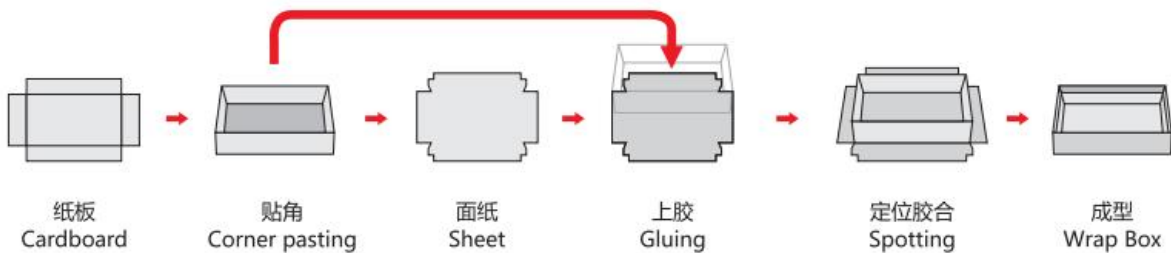
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3. Process flow



Paper making



Box making

4. 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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