

CM450A

Automatic Case Maker



About Zhengrun:

Zhejiang Zhenrun Machinery Co., LTD., founded in 1997, is the first brand to open the packaging equipment business in China, specializing in the R & D, design, production and sales of Tiandi lid box equipment and cover machine equipment. It has been rated as a national high-tech enterprise, a national intellectual property advantage enterprise, a provincial enterprise research and development center, a civilized unit in Wenzhou City, and a demonstration base for the practice of enterprise culture in Pingyang County in the new era of civilization.

The company has 66,000 square meters of modern standard factory buildings, as well as highly professional R & D production team and international leading ultra-large production and processing center equipment. Zhengrun packaging equipment involves many fields, such as electronic equipment, cosmetics, jewelry, wine, clothing and footwear, mooncake tea, desk calendar notebook, etc., for many well-known brands supply gift box, color box packaging. The company has the right to import and export, fully passed the ISO9001 quality management system certification, all products have passed the European CE product certification, products and services cover more than 80 countries and regions around the world.

Since its establishment, Zhengrun Machinery has always been adhering to the enterprise development concept of "quality casting Zhengrun brand", inheriting the spirit of artisans, pursuing higher quality and establishing a stronger brand, and is committed to becoming a representative brand of "Made in China" that affects the world's printing bag industry and has heritage value!



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1、 Automatic Case Maker

At present, the factory is basically handmade and semi-mechanized production, which requires a large number of labor forces, a large number of labor forces need to carry out human resources management, and these labor forces are some ordinary female workers, their own poor quality, low cultural level, management difficulty, many bosses and managers are also miserable. The automatic cover machine produced by our company has the characteristics of fast production speed, less labor, beautiful finished products and high precision. Products can be widely used in the production of hardcover book cover, notebook, folder, desk calendar, wall calendar, packaging gift box and other fields.

2、 system composition

Product name: Automatic Case Maker

Model: CM450A



Main accessories:

- ◆ PLC system: INOVANCE PLC system
- ◆ Drive system: Taiwan yintai
- ◆ Low-voltage electrical components: French SCHENIDER
- ◆ Transducer: French SCHNEIDER
- ◆ Pneumatic element: Taiwan AIRTAC
- ◆ Photoelectric color marking element: Germany SICK
- ◆ Ultrasonic double paper detection: Germany PEPPERL+FUCHS
- ◆ Conveyer belt: Switzerland HABASIT
- ◆ Servo Motor: China INOVANCE
- ◆ Timing belt: Germany CONTIECH
- ◆ Gear motor: Taiwan Dongli
- ◆ Bearing: import NSK bearing

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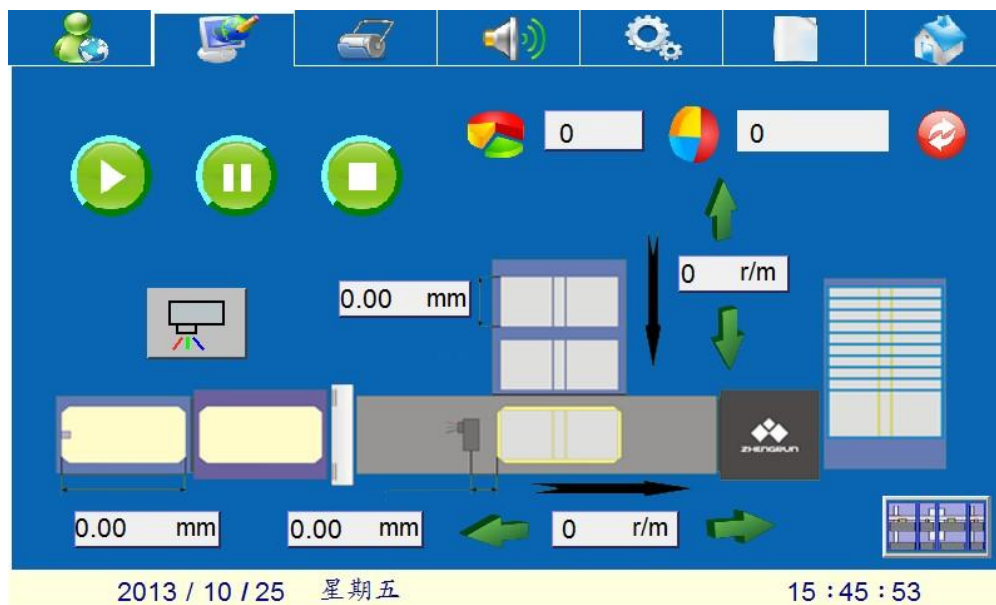
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- ◆ Gluing roller: Chromium plated stainless steel (new process)
- ◆ Another accessory: Vacuum pump ORION

2、Function:

- (1) Paper is automatically glued
- (2) Automatic transfer of cardboard positioning and fitting
- (3) One fold on all four sides
- (4) User-friendly graphical man-machine interface, displayed on all faulty computers
- (5) The integrated safety cover is designed according to the European CE standard, which

is safer and more humane



User-friendly interface

3、Function:

(1) paper gluing machine:

- ◆ Full pneumatic Feeder head: simple structure, easy operation, novel design, PLC control, accurate action (in China is the first good, is the invention patent of our company)
- ◆ Paper conveying adopts ultrasonic double-sheet paper detection device
- ◆ Paper correction device, to ensure that the face paper glue does not occur deviation



- ◆ The rubber rollers are all made of polished stainless steel chromium-plated rollers, and the wire contact scraper is more durable



- ◆ The rubber drum has constant temperature heating, filtering, circulating gluing, and has an automatic mixing device
- ◆ The valve can be changed quickly, and the rubber roll cleaning takes only 3-5 minutes

(2)cardboard transfer part:

- ◆ The cardboard conveying adopts the bottom extraction structure, and the cardboard can be added at any time when the machine is not stopped



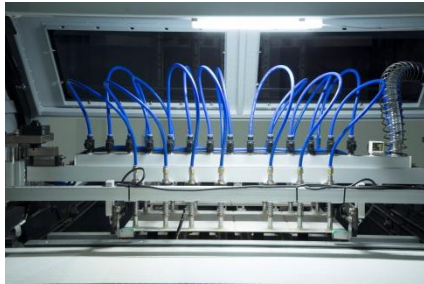
- ◆ When the cardboard conveying is short, there is an automatic detection device (when several pieces of cardboard are sent at the same time, less than one or several pieces of cardboard, the machine will stop and alarm)

(3)position part:

- ◆ Paper conveying adopts servo motor drive and high-precision photoelectric positioning
- ◆ The conveyor belt is provided with a high-power suction fan, so that the paper can

be smoothly adsorbed on the conveyor belt

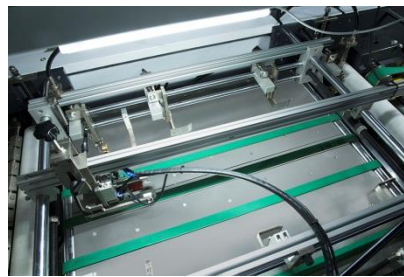
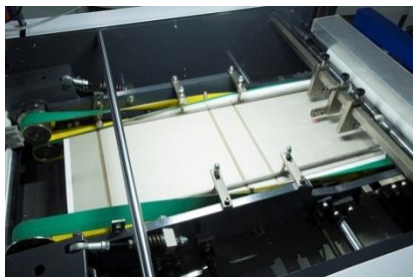
- ◆ The cardboard conveying is carried by servo motor



- ◆ The on-line action is controlled by PLC
- ◆ A pre-pressing roller is provided above the conveyor belt to keep the cardboard and face paper fit before folding

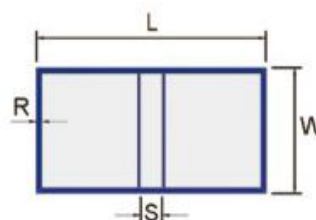
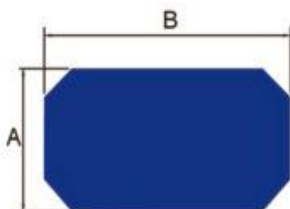
(4) Hem on all four sides:

- ◆ The left and right sides of the film base band fold
- ◆ The flanged part adopts the front and rear split double drive servo motor, synchronous no displacement, no scratch
- ◆ Angle trimming using motor parts can make the Angle trimming effect more idea



- ◆ Multilayer flattening with non-stick Teflon rollers

3、 Technical specification

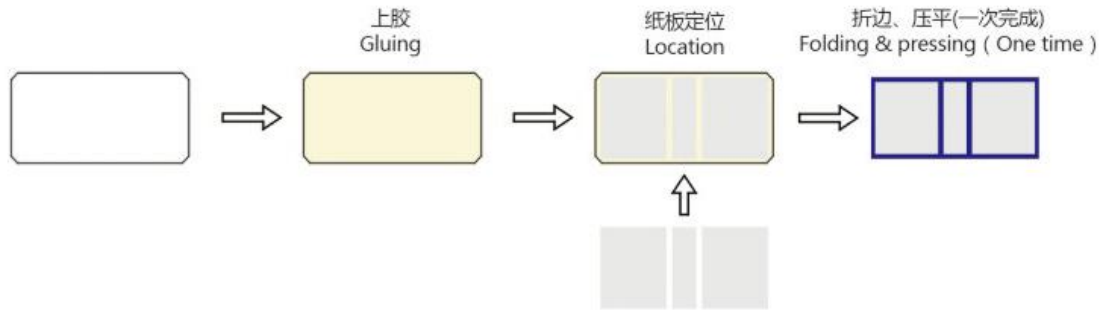


	Model	CM450A
1	Paper size(A×B)	MIN: 130×230mm MAX: 480×830mm
2	Paper thickness	100~300g/m ²
3	Cardboard thickness (T)	1~3mm
4	Product size (W×L)	MIN: 100×200mm MAX: 450×800mm
5	Minimum size of center strip (S)	10mm
6	Fold into paper edge size (R)	10~18mm
7	Cardboard qty.(max.)	6pieces
8	Precision	±0.10mm
9	Speed	≅ 38sheets/min
10	Motor power	12kw/380v 3phase
11	Electric power	12kw
12	Air supply	30L/min 0.6Mpa
12	Machine weight	3200kg
13	Machine size (L×W×H)	L7700×W2200×H1700mm

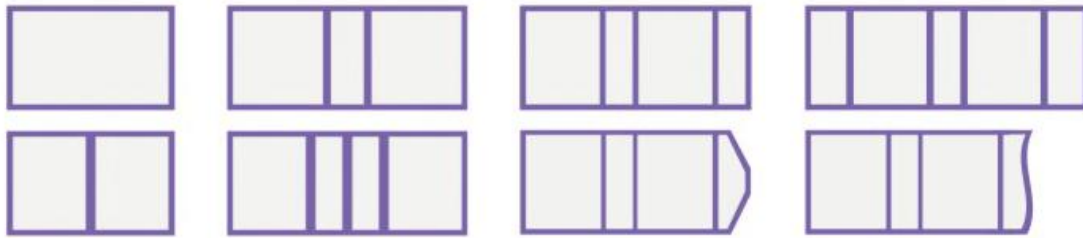
Remark:

- ◆ The maximum and minimum size of the cover also depends on the maximum and minimum size of the paper and the quality of the paper
- ◆ The speed is 30 covers per minute, but the size of the cover will affect the speed of the machine
- ◆ Maximum stacking height of cardboard: 220mm
- ◆ Maximum stacking height of paper: 280mm
- ◆ The capacity of the rubber bucket: 60L

Production flow diagram:



Sample:



注：不再一一列举其他可做样式。本机可做产品均为左右对称的产品。

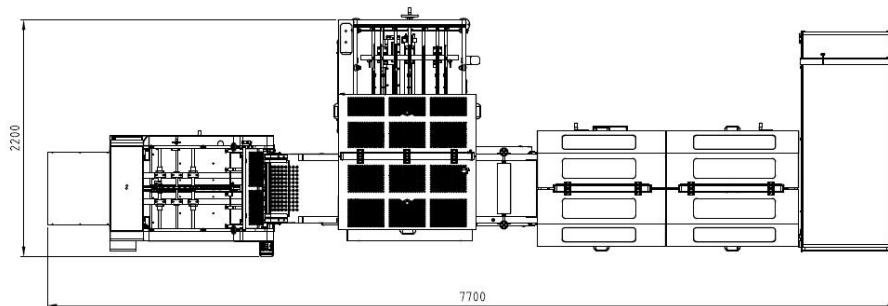
Remark: Other styles can be done will not be listed here. Products can be done by this machine are symmetrical.

4、Purchase instructions

1、Foundation requirements

The machine should be installed on a flat and solid ground to ensure that the ground has enough bearing capacity (about 300kg/m²), and sufficient operation and maintenance space should be reserved around the machine.

2、Machine size



CM450A全自动封面机

3、 Environmental conditions

- ◆ Temperature: The ambient temperature must be maintained at about 18-24°C (air conditioning equipment is required in summer)
- ◆ Humidity: The ambient humidity should be controlled at about 50%-60%
- ◆ Lighting: above 300LUX to ensure the normal operation of photoelectric components
- ◆ Keep away from oil and gas, chemicals, acidity, alkalinity and explosives or inflammables
- ◆ Avoid proximity to machines that produce vibration and high frequency electromagnetism
- ◆ Avoid direct sunlight
- ◆ Avoid direct fan blowing

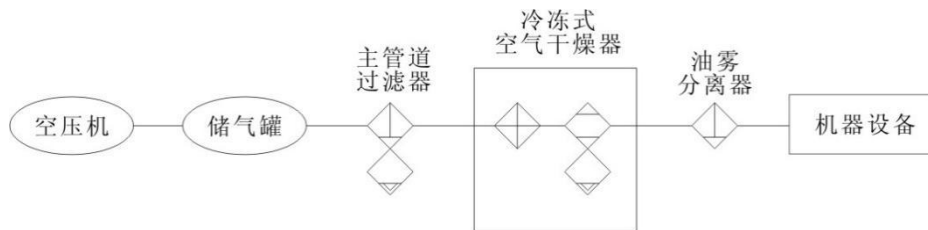
4、 Material requirements

- ◆ Paper and paperboard must be kept flat, and necessary moisture-proof and wind-dry measures must be taken
- ◆ Both sides of the paper must be treated by electrostatic discharge
- ◆ Board slitting error should be controlled within $\pm 0.20\text{mm}$ (recommended to use the board slitting machine KL1300 and the center slitting machine ZX450)

5、 If the color of the adhesive surface on the face paper is close to or the same as that of the conveyor belt (black), adhesive tape of other colors must be affixed to the conveyor belt to distinguish the color label (generally, as long as the width of the adhesive tape is about 10mm below the color label, the color is recommended to choose white).

6、 Power requirements: three-phase 380V/50Hz/40A voltage (special cases need to be customized, can be explained in advance, such as: 220V, 415V and other countries voltage).

7、 Air source: 5-8 Atmospheres (atmospheric pressure), 10L/min. Poor air quality is the main reason for the failure of the pneumatic system, which will greatly reduce the reliability and service life of the pneumatic system, and the resulting loss will greatly exceed the cost and maintenance costs of the air source treatment device, so the correct configuration of the air source treatment system and its components is very important. The following air purification treatment options are available for reference (by the user):



- ◆ Air compressor is referred to as air compressor, it is not a standard part of the machine, the machine does not provide air compressor when the factory, ordered by the customer. The power of the air compressor is 11KW and the air flow rate is 1.5m³/min.
- ◆ The role of the gas storage tank (capacity 1m³, atmospheric pressure 0.8MPa):
 - a. Through the gas storage tank can condense part of the high temperature gas from the air compressor
 - b. Maintain the pressure stability of the rear actuator using the pneumatic element
- ◆ The function of the main filter is to remove oil, water and dust in the compressed air to improve the working efficiency of the downstream dryer, and extend the use time of the rear precision filter and dryer
- ◆ The role of the refrigerated air dryer is to remove the water in the compressed air after the compressed air is processed by the post-cooler, oil-water separator, gas tank, and main flow filter
- ◆ The role of the oil mist separator: further out the water in the compressed air after being treated by the cold dryer

8、 Staffing: In order to ensure man-machine safety, and give full play to its performance, reduce failures, extend service life, it is necessary to be equipped with dedicated, capable and has a certain degree of mechanical equipment operation, maintenance capabilities of 2-3 people.

9、 auxiliary materials

- ◆ Glue: animal glue (jelly glue, gel glue), specification: high speed and fast drying type