

# 北京众智精诚自动化设备有限公司

## Beijing Zhongzhi Jingcheng Automation Equipment Co., Ltd.

We specialize in the research, development, and production of plastic smart card making machines.

Our machines are used to produce plastic smart cards, such as Bank/Credit cards, ID cards, E-passport Inlay.

We have many customers in, Europe, the Middle East, South Asia, Southeast Asia, Russia, and other regions.

Our software and hardware engineers have over 20 years of industry experience, ensuring stable equipment quality, outstanding performance, and professional and meticulous after-sales service.

We also specialize in customizing existing equipment with new features and developing new equipment.

### Our Main Machines

- ☆ Card lamination
- ☆ Card punching
- ☆ Card hot stamping / Sheet hot stamping / Customized hot stamping
- ☆ E-passport Inlay making machines
- ☆ Contactless RFID card making machines
- ☆ Magnetic card making machines
- ☆ Other customized equipment for packaging, card making and other related industries
- ☆ Automobile glass tempering equipment

### Contact Us

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## Card Automatic Hot Stamping Machine (1 Head / 2 Heads)

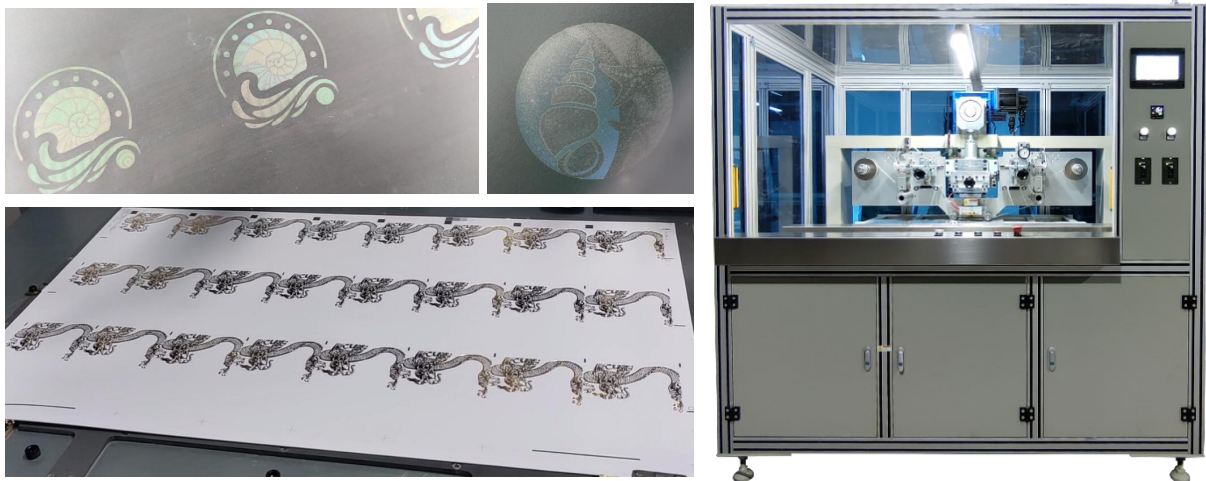
- ☆ Hot stamp the following decorations on cards: Holographic security hologram label, Signature panel, Pattern/LOGO/Text, Scratch-off labels, Gild/silver on embossed code.
- ☆ It can hot stamp credit card hologram labels and signature strips, such as UnionPay, VISA, MasterCard, JCB.
- ☆ Fully automatic running, PLC + touch screen control, servo motor drives the hot stamping head, front and rear dual motors tighten the film belt, and the tension is adjustable.
- ☆ There are options for single hot stamping heads and double hot stamping heads. There is flip between 2 stamp heads.
- ☆ Customizable features: Visual positioning, visual inspection and rejection, cleaning, foil four-way movement, etc.

|                                                                                    |                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| <b>Model No.</b>                                                                   | <b>HS-FC1</b>                                                                      | <b>HS-FC2</b>                                                                       |
| <b>Stamp type</b>                                                                  | Flat Stamping                                                                      |                                                                                     |
| <b>Stamp head QTY</b>                                                              | 1 station                                                                          | 2 stations                                                                          |
| <b>Card material</b>                                                               | PVC, ABS, Teslin, PC, PETG, paper                                                  |                                                                                     |
| <b>Card size</b>                                                                   | CR80 credit card size, customizable                                                |                                                                                     |
| <b>Card thickness</b>                                                              | 0.7-0.9mm, customizable                                                            |                                                                                     |
| <b>Control</b>                                                                     | PLC + HMI                                                                          |                                                                                     |
| <b>Stamp head drive</b>                                                            | Servo                                                                              |                                                                                     |
| <b>Stamp pressure</b>                                                              | ≤500kg                                                                             |                                                                                     |
| <b>Stamp temperature</b>                                                           | ≤200°C                                                                             |                                                                                     |
| <b>Temperature accuracy</b>                                                        | ±1.0°C                                                                             |                                                                                     |
| <b>Stamp position accuracy</b>                                                     | ±0.15mm                                                                            |                                                                                     |
| <b>Compressed air</b>                                                              | 0.6MPa                                                                             |                                                                                     |
| <b>Power supply</b>                                                                | AC380V 50/60Hz or AC220V 50/60Hz                                                   |                                                                                     |
| <b>Power</b>                                                                       | 2 kW                                                                               | 2.6 kW                                                                              |
| <b>Speed</b>                                                                       | 2500-3500 cards/h                                                                  | 2500-3500 cards/h (stamp 2 times)                                                   |
| <b>Dimensions</b>                                                                  | L1200*W1100*H1650mm                                                                | L1600*W1100*H1800mm                                                                 |
| <b>Weight</b>                                                                      | 500 kg                                                                             | 950 kg                                                                              |



## Sheet Hot Stamping Machine

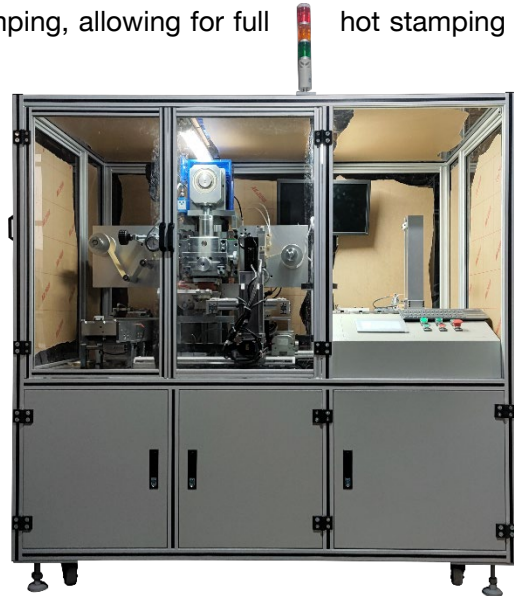
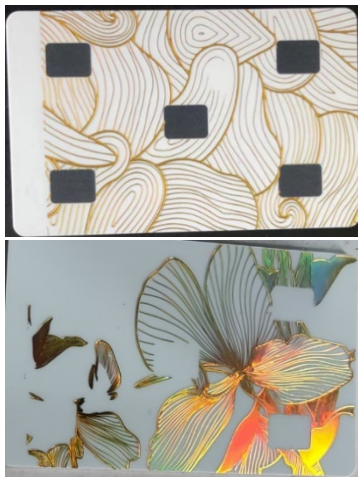
- ☆ Hot stamping on large sheets or films, flat stamping, One stamping head. Servo-driven stamping head. Dual motors pulling the foil belt, adjustable tension, and bidirectional movement. PLC and touchscreen operation, manual placement of materials, and automatic stamping completes each sheet. Edge positioning.
- ☆ Can hot stamp on the laminated plastic sheets and then punch the cards. The hot stamping area can be larger than the card area. So that there is no gap between the hot stamped object and the edge of the card after punching.
- ☆ Hot stamp on plastic sheet / film / overlay before lamination. Such as PC film.
- ☆ Hot stamp on printed sheets and then laminate. In this way, the hologram will be covered by the film.
- ☆ Customizable function: laser dot or vision positioning, auto feed and collect sheets, feed in roll.



| Model No.            | HS-FS1                                                           |                                                                                      |
|----------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Suitable Materials   | PVC, ABS, PC, PETG, PET, PLA, Teslin, paper sheet, film, overlay |                                                                                      |
| Sheet Thickness      | ≥0.06mm                                                          |                                                                                      |
| Suitable Layout      | 2*5, 3*8, 5*5, 4*8, 4*10, 4*4, etc.                              |                                                                                      |
| Loading Sheets       | Manually place sheet on workbench                                |                                                                                      |
| Heating Temperature  | ≤250°C                                                           |  |
| Temperature Accuracy | ±1.0°C                                                           |                                                                                      |
| Stamp Head QTY       | 1                                                                |                                                                                      |
| Workbench Running    | X and Y axis                                                     |                                                                                      |
| Stamp Head Running   | Z axis                                                           |                                                                                      |
| Position Accuracy    | ±0.15mm                                                          |                                                                                      |
| Power Supply         | AC380V 50/60Hz                                                   |                                                                                      |
| Power                | 5kW                                                              |                                                                                      |
| Max. Stamp Pressure  | 3000N                                                            |                                                                                      |
| Output               | 1500-3500 Stamps/hour                                            |                                                                                      |
| Dimensions           | L1900*W1440*H1800mm                                              |                                                                                      |
| Weight               | 1400 kg                                                          |                                                                                      |

## Card Automatic Vision Positioning Hot Stamping Machine

- ☆ Fully automatic running. PLC control. Touchscreen display. Suction cup feed card. Pneumatic finger card transfer. Hikvision vision system, and servo-driven hot stamping head. Flat stamping. Four axes aligned and hot stamping after visual recognition. Dual card hoppers automatically switch to the other hopper when one is full, ensuring scratch-free card collection. Dual motors on both sides pull the foil, with adjustable tension.
- ☆ Added vision system, more accuracy. The vision system to identify a specific pattern on the card and use this pattern as a reference for hot stamping, rather than the card edge. This ensures the hot stamping pattern is precisely positioned on the card, perfectly matching the original pattern.
- ☆ No guide rails obstruct the card during hot stamping, allowing for full hot stamping on all three sides.



|                         |                                   |
|-------------------------|-----------------------------------|
| Model No.               | HS-FCV1                           |
| Stamp type              | Flat stamping                     |
| Stamp Head quantity     | 1                                 |
| Suitable material       | PVC, ABS, Teslin, PC, PETG, Paper |
| Card size               | 85.6×54mm                         |
| Card thickness          | 0.5-1.2mm                         |
| Control method          | PLC+HMI                           |
| Stamp head drive        | Servo                             |
| Max. stamp pressure     | ≤500kg                            |
| Max stamp temperature   | ≤200°C                            |
| Temperature accuracy    | ±1.0°C                            |
| Stamp position accuracy | ±0.08mm                           |
| Compressed Air          | 0.6MPa                            |
| Power supply            | AC380V 50/60Hz                    |
| Power                   | 2 kW                              |
| Speed                   | 2000-4000 cards / hour            |
| Dimensions              | L1860 * W1100 * H1820 mm          |
| Weight                  | 1000 kg                           |

## A3 & Above PLC Control Double Towers Lamination Machine

- ☆ For large and medium-sized card manufacturers. To meet the lamination process requirements of various smart cards, Inlay sheets, and electronic tags. Suitable for many materials.
- ☆ PLC control, HMI display, hydraulic pressure, electric heating rods heating, water cylinder cooling. Double-Tower structure. Heat lamination on the right side, Cool lamination on the left side. 5 heat + 5 cool openings. And 6 heat + 6 cool, 7 heat + 7 cool is customizable.
- ☆ Totally 8 oil cylinders. 4 for heat lamination and 4 for cool lamination. The whole machine has compact structure and good rigidity.
- ☆ Heat laminate pressure can be set 1-8 grades, Cool lamination pressure can be set 1-4 grades.
- ☆ The rising process of heat press plates can be set 1-5 stages, and the stay time of each stage is flexibly set to meet the lamination requirements of high-end cards.
- ☆ Up to 6 groups of parameters can be set and saved on touch screen for easy recall.
- ☆ Optional auxiliary loading and unloading equipment.



| Model No.            | LM-S2<br>550x640                                                | LM-S2<br>450x655 | LM-S2<br>420x520 | LM-S2<br>350x500 | LM-S2<br>550x750 |
|----------------------|-----------------------------------------------------------------|------------------|------------------|------------------|------------------|
| Output per hour      | 9000 cards                                                      | 7500 cards       | 6000 cards       | 4500 cards       | 13500 cards      |
| Heat cool structure  | Double towers: Heat on the Left, Cool on the Right              |                  |                  |                  |                  |
| Control method       | PLC Automatic control                                           |                  |                  |                  |                  |
| Press platen size    | 550x640 mm                                                      | 450x655 mm       | 420x520 mm       | 350x500 mm       | 550x750 mm       |
| For cards layout     | 5x10                                                            | 4x10             | 4x8              | 3x7, 3x8, 5x5    | 5x12             |
| Press plate material | No. 45 steel or aluminium alloy, optional                       |                  |                  |                  |                  |
| Opening QTY          | Right 5 Heat + Left 5 Cool (6+6, 7+7 customizable)              |                  |                  |                  |                  |
| Opening space        | 50mm                                                            |                  |                  |                  |                  |
| Sheets in 1 opening  | About 10 layers                                                 |                  |                  |                  |                  |
| Pressure method      | Hydraulic                                                       |                  |                  |                  |                  |
| Cylinder QTY & diam. | 8x140mm                                                         | 8x100mm          | 8x100mm          | 8x90mm           | 8x140mm          |
| Cylinder stroke      | 280mm                                                           |                  |                  |                  |                  |
| Oil tank capacity    | 150L                                                            |                  |                  |                  |                  |
| Pressure & accuracy  | 0.8-15 MPa, $\pm 0.3$ MPa                                       |                  |                  |                  |                  |
| Heating method       | Electric heating tube                                           |                  |                  |                  |                  |
| Heating temperature  | $\leq 250^{\circ}\text{C}$ , accuracy $\pm 1.0^{\circ}\text{C}$ |                  |                  |                  |                  |
| Cooling method       | Water circulation cooling                                       |                  |                  |                  |                  |
| Power                | 36.0kW                                                          | 31.0kW           | 22.0kW           | 22.0kW           | 39.0kW           |
| Power supply         | AC380V 50/60Hz 3 phases 5 wires                                 |                  |                  |                  |                  |
| Dimensions(cm)       | 240*110*160                                                     | 240*100*160      | 230*96*155       | 220*96*155       | 250*120*160      |
| Weight               | 5000 kg                                                         | 4500 kg          | 3500 kg          | 3000 kg          | 8000 kg          |

## Heat Cool Combined Lamination Machine / Vacuum Lamination Machine

- ☆ Especially designed to produce high-end and high-quality smart cards and Inlay. It can laminate Inlay for national ID cards and passport Inlay well.
- ☆ Suitable for laminating various materials, such as PVC, ABS, PET, PETG, PC, TESLIN, synthetic paper, etc. It can also be used for laminated PCB, FPC, CCL in the electronics industry.
- ☆ Touchscreen settings and display parameters, with PLC automatic control. The laminating process pressure can be set from 1 to 8 levels. Up to six sets of operating parameters can be set and saved on the touchscreen for easy recall, tailored to the laminating product. P.I.D. temperature control is precise.
- ☆ Electric heating tubes and water cycling pipeline are integrated in each press plate. Heat lamination and cool lamination is performed in the same position. After heat lamination, cool lamination is started automatically, don't need to move the materials. The operation is easy, saving manpower and time.
- ☆ The heat lamination is switched to the cool lamination while maintaining the pressure. The heating process adopts FAST HEATING UP – SLOW HEATING UP – KEEP TEMPERATURE. And cooling process adopts INTERMITTENT COOLING DOWN - FAST COOLING DOWN. Therefore, the deformation of the sheets after lamination is very small, the scrap rate is low, and the quality of the laminated product is high, which meets the requirements to produce ID cards and passport Inlay.
- ☆ Based on heat cool combined lamination machine, vacuum lamination machine add vacuum system, has vacuum chamber for lamination in a vacuum environment.



Heat cool combined lamination machine LM-S2C



Vacuum lamination machine LM-S2CV

# Heat Cool Combined Lamination Machine / Vacuum Lamination Machine

| Model No.             | LM-S2C 425*520<br>(Heat Cool Combined)                                            | LM-S2CV 425*520<br>(Heat Cool Combined + Vacuum)                                    |
|-----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Machine photo         |  |  |
| Output per hour       | 2400-3800 cards (3*8 layout); 3200-5000 cards (4*8 layout)                        |                                                                                     |
| Heat cool structure   | Heat openings and cool openings combined                                          |                                                                                     |
| Control method        | PLC control, + HMI, PID control temperature                                       |                                                                                     |
| Press plate size      | 425*520 mm                                                                        |                                                                                     |
| For cards layout      | 4*8, 3*8, 5*5, etc.                                                               |                                                                                     |
| Press plate material  | Aluminum alloy                                                                    |                                                                                     |
| Opening QTY           | 5 heat and cool combined openings                                                 |                                                                                     |
| Opening space         | 50 mm                                                                             |                                                                                     |
| Sheets in 1 opening   | Normally 10 layers, max.15 layers, depend on sheets thickness                     |                                                                                     |
| Pressure method       | Hydraulic                                                                         |                                                                                     |
| Cylinder QTY & diam.  | 4*100 mm                                                                          |                                                                                     |
| Cylinder stroke       | 300 mm                                                                            |                                                                                     |
| Oil tank capacity     | 150 L                                                                             |                                                                                     |
| Hydraulic Oil Grade   | No. 46 anti-wear hydraulic oil                                                    |                                                                                     |
| Hydraulic pressure    | 1-16MPa                                                                           |                                                                                     |
| Pressure accuracy     | ±0.2 MPa                                                                          |                                                                                     |
| Pressure grade        | Can set 1-8 grades                                                                |                                                                                     |
| Heating method        | Electric heating tube                                                             |                                                                                     |
| Heating temperature   | ≤250°C                                                                            |                                                                                     |
| Temperature accuracy  | ±1.0°C                                                                            |                                                                                     |
| Maximum heating speed | 15°C/Minutes. Temperature rise slope adjustable                                   |                                                                                     |
| Cooling method        | Water circulation cooling                                                         |                                                                                     |
| Cooling speed         | 20°C/Minutes                                                                      |                                                                                     |
| Cooling tool          | 10 HP water chiller                                                               |                                                                                     |
| Power                 | 42.5 kW                                                                           |                                                                                     |
| Power supply          | AC380V 50/60HZ 3 phases 5 wires                                                   |                                                                                     |
| Machine Dimension     | 1650*1000*1600 mm                                                                 | 1800*1200*1600 mm                                                                   |
| Machine weight        | 2000 KG                                                                           | 2500 KG                                                                             |
| Maximum vacuum degree | - No vacuum chamber -                                                             | 5kPa                                                                                |

## A4 / A3 Laminators

☆ Designed for small and medium-sized plastic card production. Hydraulic pressure, electric heating elements for heating, and water circulation for cooling. Suitable for variety of materials.

☆ The LM-N1 A4/A3 and LM-N2 A4/A3 models use an electric contact gauge to display and control pressure, and a temperature controller to display and control temperature.

☆ LM-S1 A4/A3 model utilizes a PLC and touch screen to automatically control pressure, temperature, and time, providing higher precision. It is suitable for small-batch production of high-end cards and laboratory use.

☆ Note: The A4 laminator can be increase the laminate platen size to accommodate A3 size laminators.

| Model No.            | LM-N1 A4 / A3                                                                     | LM-N2 A4 / A3                                                                      | LM-S1 A4 / A3                                                                       |
|----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Machine photo        |  |  |  |
| Heat cool structure  | Single towerl                                                                     | Double towers                                                                      | Single tower                                                                        |
| PLC and HMI          | NO                                                                                | NO                                                                                 | YES                                                                                 |
| Press plate size     | 250*350 / 350*500                                                                 | 250*350 / 350*500                                                                  | 250*350 / 350*500                                                                   |
| For cards layout     | A4 2x5 / A3 3x7                                                                   | A4 2x5 / A3 3x7                                                                    | A4 2x5 / A3 3x7                                                                     |
| Opening QTY          | Upper 3 heat + Lower 3 cool                                                       | Right 3 heat + Left 3 cool                                                         | Upper 2/3 heat + Lower 2/3 cool                                                     |
| Opening space        | 40 / 48 mm                                                                        | 40 / 48 mm                                                                         | 40 / 50 mm                                                                          |
| Sheets in 1 opening  | About 10 layers                                                                   | About 10 layers                                                                    | About 10 layers                                                                     |
| Pressure method      | Hydraulic                                                                         | Hydraulic                                                                          | Hydraulic                                                                           |
| Cylinder QTY & diam. | 1x100 / 140 mm                                                                    | 2x100 / 140 mm                                                                     | 1x100 / 4x100mm                                                                     |
| Cylinder stroke      | 260 mm                                                                            | 150 mm                                                                             | 200 mm                                                                              |
| Oil tank capacity    | 35 / 50 L                                                                         | 35 / 50 L                                                                          | 35 / 150 L                                                                          |
| Hydraulic pressure   | 2-15 MPa                                                                          | 2-15 MPa                                                                           | 0.8-15 MPa                                                                          |
| Pressure accuracy    | ±1.0 MPa                                                                          | ±1.0 MPa                                                                           | ±0.3 MPa                                                                            |
| Pressure grade       | Cannot graded                                                                     | Cannot graded                                                                      | Can set 1-4 grades                                                                  |
| Heating method       | Electric heating tube                                                             | Electric heating tube                                                              | Electric heating tube                                                               |
| Heating temp.        | ≤200°C                                                                            | ≤200°C                                                                             | ≤200°C                                                                              |
| Temp. accuracy       | ±2.0°C                                                                            | ±2.0°C                                                                             | ±1.0°C                                                                              |
| Power                | 6.3 kW / 11.1kW                                                                   | 6.3 kW / 11.1kW                                                                    | 6.7 kW / 13 kW                                                                      |
| Power supply         | AC380V / 220V                                                                     | AC380V / 220V                                                                      | AC380V / 220V                                                                       |
| Dimensions           | 720*550*1540 mm<br>800*700*1750 mm                                                | 1200*600*1400 mm<br>1500*800*1600 mm                                               | 850*700*1500 mm<br>1600*1000*1400 mm                                                |
| Weight               | 430 KG / 800 KG                                                                   | 650 KG / 1000 KG                                                                   | 480 KG / 1800 KG                                                                    |

## A4 2x5 Card Punching Machine

- ☆ Designed for small and medium-scale card manufacturers. Can punch various materials, such as PVC, ABS, TESLIN, PC, PET Card sticker, PETG, synthetic paper, etc. The thickness of the material is about 0.2-1.2mm. The feed sheet size is A4 and card layout is 2x5. The punching card size is CR80 85.6x53.98mm. Other sizes of card is customizable.
- ☆ The punching die is made of imported steel, the edge of the card is neat and smooth without burrs, and the punching die is durable.
- ☆ The moving distance and punching position are accurate, and operation is easy.
- ☆ CP-MU2\*5 Manually put sheets, manual feed sheets, 5 mechanical notches positioning the 5 punch positions, foot switch trigger each step of punching, Normal motor + Eccentric wheel drive the punching die heads to punch.
- ☆ CP-SA2\*5 feeding system adopts stepper motor + KEYENCE optical fiber sensor. Each step can set different stride distance. Adopts normal motor + eccentric wheel to drive the punching die heads. Manually put sheets, Press START button, machine automatically and continuously feed 5 steps and punch 5 times.
- ☆ CP-SV2\*5 Manually put sheets, Press START button, machine automatically correction of sheet position, automatically and continuously feed 5 steps and punch 5 times.
  - KEYENCE optical fiber sensor is used for automatic correction of sheets.
  - The feeding system adopts servo motor + ball screw and plane guide rail, which moves smoothly and accurately. The program can set different stride distance for each step.
  - Servo motor drives the punching die, which has stable punching, large power, fast speed, low noise, and easy maintenance.

|                  |                                                                                     |                                                                                      |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  |  |  |  |
| <b>Model No.</b> | <b>CP-MN2*5</b>                                                                     | <b>CP-SA2*5</b>                                                                      | <b>CP-SV2*5</b>                                                                       |
| Layout           | A4 2x5.                                                                             |                                                                                      |                                                                                       |
| PLC+HMI          | NO                                                                                  | NO                                                                                   | YES                                                                                   |
| Load sheets      | Manually. Can make customized auto loading system                                   |                                                                                      |                                                                                       |
| Auto correction  | NO                                                                                  | NO                                                                                   | Yes                                                                                   |
| Feed sheet       | Manual                                                                              | Auto: stepper motor                                                                  | Auto: servo motor                                                                     |
| Punch card       | Manual                                                                              | Automatic                                                                            | Automatic                                                                             |
| Punch drive      | Normal motor                                                                        | Normal motor                                                                         | Servo motor                                                                           |
| Output/h         | 1500 cards                                                                          | 2000 cards                                                                           | 6000 cards                                                                            |
| Air source       | No need                                                                             | 0.6MPa, 2L/min                                                                       | 0.6MPa, 50L/min                                                                       |
| Power supply     | AC380V or 220V                                                                      | AC380V or 220V                                                                       | AC380V or 220V                                                                        |
| Power            | 0.75 kW                                                                             | 0.9 kW                                                                               | 3.5 kW                                                                                |
| Dimensions       | 920x660x1000mm                                                                      | 1000x700x1000 mm                                                                     | 1500x880x1530 mm                                                                      |
| Weight           | 130KG                                                                               | 140KG                                                                                | 400KG                                                                                 |

## 3×8 / 4×8 / 5×5 Card Servo Punching Machine

- ☆ Designed for big and medium-scale card manufacturers. can punch various materials, such as PVC, ABS, TESLIN, PC, PET Card sticker, PETG, synthetic paper, etc. Mateeial thickness about 0.2-1.2mm.
- ☆ The punching card size is CR80 (standard credit card size 85.6x53.98mm). For punching some other sizes of card is customizable.
- ☆ The punching die is made of imported steel, the edge of the card is neat and smooth without burrs, and the punching die is durable.
- ☆ PLC control, HMI operate.
- ☆ Manually load sheets, press START button, machine automatically correction of sheet position, automatically and continuously feed and punch.
- ☆ Sheet automatic correction system adopts KEYENCE optical fiber sensor.
- ☆ The feeding system adopts servo motor + high-precision ball screw and plane guide rail, which moves smoothly and accurately. The program function is strong, can set different stride distance for each step to ensure the punching accuracy.
- ☆ Servo motor to drive the punching die, which has stable punching, large power, fast speed, low noise, and easy maintenance.
- 3 heads CP-SV3X punch layout 3x7/8/9/10...
- 4 heads CP-SV4X punch layout 为 4x6/7/8/9/10...
- 5 heads CP-SV5X punch layout 5x5



| Model No.                      | CP-SV3X                    | CP-SV4X          | CP-SV5X          |
|--------------------------------|----------------------------|------------------|------------------|
| Suitable layout                | 3x6/7/8/9/10...            | 4x6/7/8/9/10...  | 5x5              |
| Punch head No.                 | 3                          | 4                | 5                |
| Output / h                     | 11000 cards                | 16000 cards      | 15000 cards      |
| Load sheets                    | Manual                     |                  |                  |
| Sheet auto correction          | Yes                        |                  |                  |
| Feed sheets                    | Automatic by servo system  |                  |                  |
| Punch positioning              | Set stride, adjustable     |                  |                  |
| Trigger punch                  | Automatic, Sensor + stride |                  |                  |
| Drive punch                    | Servo motor                |                  |                  |
| Air Source and Air Consumption | 0.6 MPa, 50L/minute        |                  |                  |
| Power supply                   | AC 380V or 220V            |                  |                  |
| Power                          | 4.5 kW                     |                  |                  |
| Dimensions                     | 1720x1320x1830mm           | 1750x1400x1850mm | 1800x1250x1850mm |
| Weight                         | 550KG                      | 600KG            | 620KG            |

Note: Auto feed sheets and collect cards in order are customizable.

## Contactless Card / E-passport Inlay Machines

- ☆ Mainly includes chip hole punching machine, antenna embedding machine, chip implantation machine, chip module welding machine, and subsequent laminating machine, etc.
- ☆ The E-passport INLAY production equipment also includes raw material punching hole and slitting, folding connection, etc.
- ☆ We have customized contactless card production equipment and E-passport inlay production lines for customers, with strong customizability.

### Antenna Embedding Machine:

- ☆ Used to Embedding antenna (fine enamelled copper wire) on plastic or paper sheet to produce inlay sheets.
- ☆ Adopts the first-class servomotor multi-axial controllers and the first-class 70kHz ultrasonic generator. Imported three-dimensional robots offer high precision and robust stability. A dedicated CNC system allows for CAD drawing input, facilitating product changes. They can accommodate a wide range of materials, such as PVC and PC, and complex embedding patterns. The number of embedding heads, worktables, and dimensions can be customized to accommodate varying material sizes and layouts.
- ☆ Max. embedding speed: 400mm/second. Diameter 0.07-0.15mm copper wire. Min coiling space 0.14mm.



### Chip Module Bonding Machine

- ☆ Used for bonding contactless modules to connect module and antenna. It adopts high-speed servo system and highly stable and precise spot welder with HF contravariant resistance, which is characterized with high precision, high stability and high speed.
- ☆ The bonding heads quantity, worktable size are customizable.
- ☆ 0.07-0.15mm copper wire. Position precision 0.05mm.



# Contactless Card / E-passport Inlay Machines



Positioning hole punching



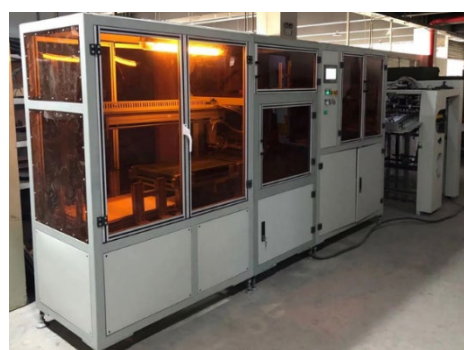
Desktop chip module automatic punching machine



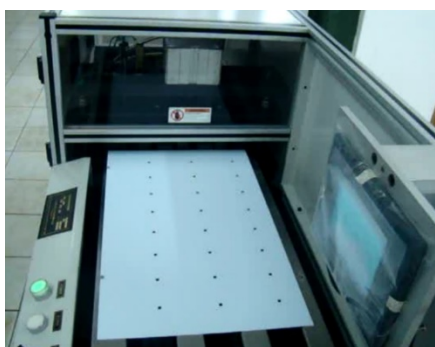
Semi-auto E-passport Inlay spot bonding machine



E-Passport Inlay roll Punching and Slitting (feeds in roll, punches positioning holes and chip holes in one go, and then slits)



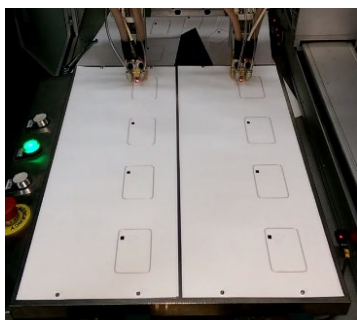
Inlay automatic hole punching (feeds in roll, punches positioning holes and chip holes in one go, and then slits)



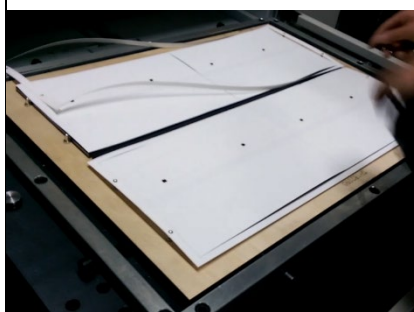
Semi-auto chip hole punching (feed sheets)



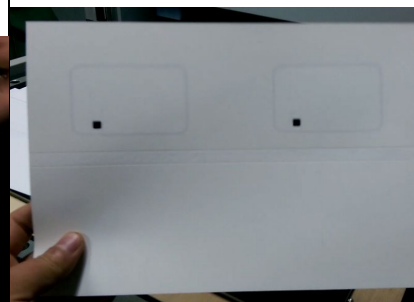
Antenna embedding for E-passport Inlay



Module bonding for E-passport Inlay



Die cutting for E-passport Inlay



E-passport Inlay Inlay Finished Product

## Automatic Special Shape Card Punching Machine



☆ Used for punching holes, cutting edge and impressing marks on CR80 cards or other customized card sizes. To produce separable 3 up key tags cards or other special shape cards.

☆ Two stations. First station punches edge and holes. Second station impress break apart lines

☆ PLC and touch screen control. Automatic running. 3500 cards per hour.



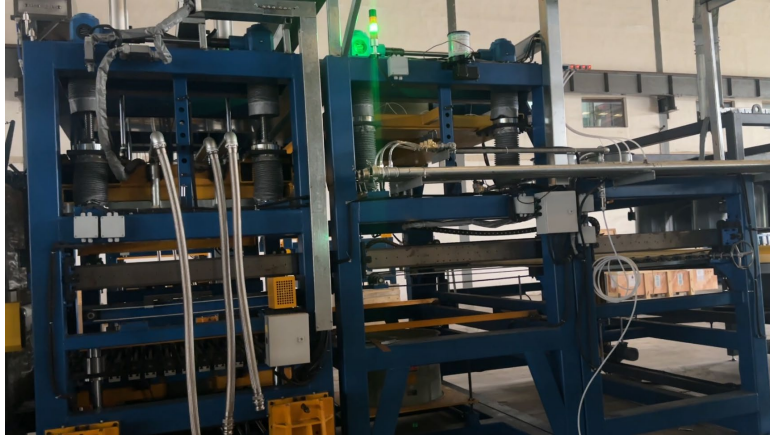
## Magnetic Stripe Spot Bonding Machine

- ☆ Used for spot bonding pre-positioning of magnetic strip on plastic sheets or overlay before laminating in magnetic strip card production.
- ☆ It can realize semi-automatic positioning and spot bonding of the magnetic strip by means of pneumatic action and hot lamination. Both the PVC spot bonding and the magnetic strip spot bonding can be completed at the same time. The operation is easy and safe.
- ☆ It can apply only normal magnetic strip. It is not able to deal with peeling off type magnetic strip.
- ☆ Pneumatic drive and press. Electric heating.
- ☆ Optional layout: 3\*8, 4\*8, 5\*5.
- ☆ 6000-9000 cards per hour.



## Other Customized Equipment Cases

- ☆ We have experienced mechanical engineers, electrical engineers, and software engineers who work closely together and have strong customized R&D capabilities. In addition to standard models, we have great advantages in adding customized functions based on standard models and developing new equipment according to customer needs.
- ☆ In addition to our customization capabilities in contactless cards and e-passport inlays, we also have many successful cases in small packaging equipment, automotive glass production lines, and electronic product processing equipment.



Successfully developed automotive glass tempering equipment



Custom vacuum laminator for NanoLam from the US



Customized check hot stamping machine



Customized fully automatic hole punching and card punching machines