



欽揚科技股份有限公司  
CHINUP TECHNOLOGY CO., LTD.

# CG-1 GSM-Module Punching & Scribing Machine





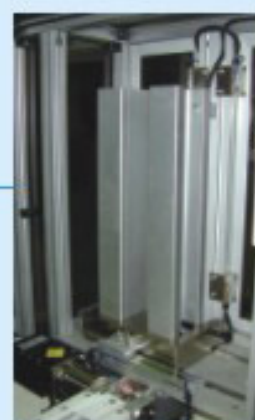
- CE compliance electrically interlocked safetyguards ensures a totally safe operating environment.
- A Touch-screen operator interface with machine dialogue and self-diagnostic trouble shooting makes the CG-1 user friendly.
- There is a collection box outside the safety guards at both entry and exit of the machine. When power is on, the cards left on the transport belt are automatically moved into either of the two collection boxes. The exit collection box is also for defective cards collection.



- Thickness detection and display panel. The machine does not punch and scribe when the thickness tolerance of the card is over preset parameter. The defective cards will go through every station to reach the exit collection box.
- The transport belt is driven by servo motor with positioning accuracy  $\pm 0.05\text{mm}$ .
- Punching station. The pneumatic punching system together with high precision male & female dies achieves excellent punching quality. The cards are located by a positioning device before punching to ensure accuracy.
- Pneumatic scribing station. The precise tool knife scribes lines on both sides of the card at each narrow "bridge" connecting the SIM to the card body. The cards are also located by a positioning device before scribing to ensure accuracy. This makes break out easily the SIM from the card body when needed.
- There is a scribing depth display panel on the top of the pneumatic scribing station showing scribing status. This function can effectively avoid over-scribing mistakes and save adjustment time.



- Card extracting unit includes two interchangeable input magazines and single card extractor.



- Card stacking unit includes two interchangeable output magazines and finished card stacking device. The cards which do not pass thickness detection are sent through stacking device into the exit collection box located outside the safety guards of the machine.

### Specifications:

Model no.	CG-1
Positioning accuracy	$\pm 0.05\text{mm}$
GSM dimension	ISO smart card ID-1 layout
SIM dimension	ISO smart card ID-000 layout
Magazine capacity	500 cards
Capacity	3000 cards per hour
Machine dimension	1845(L) * 730(W) * 1835(H) mm
Machine weight	1000 kg
Pressured air	6 bar

◎ Specifications subject to change without notice.



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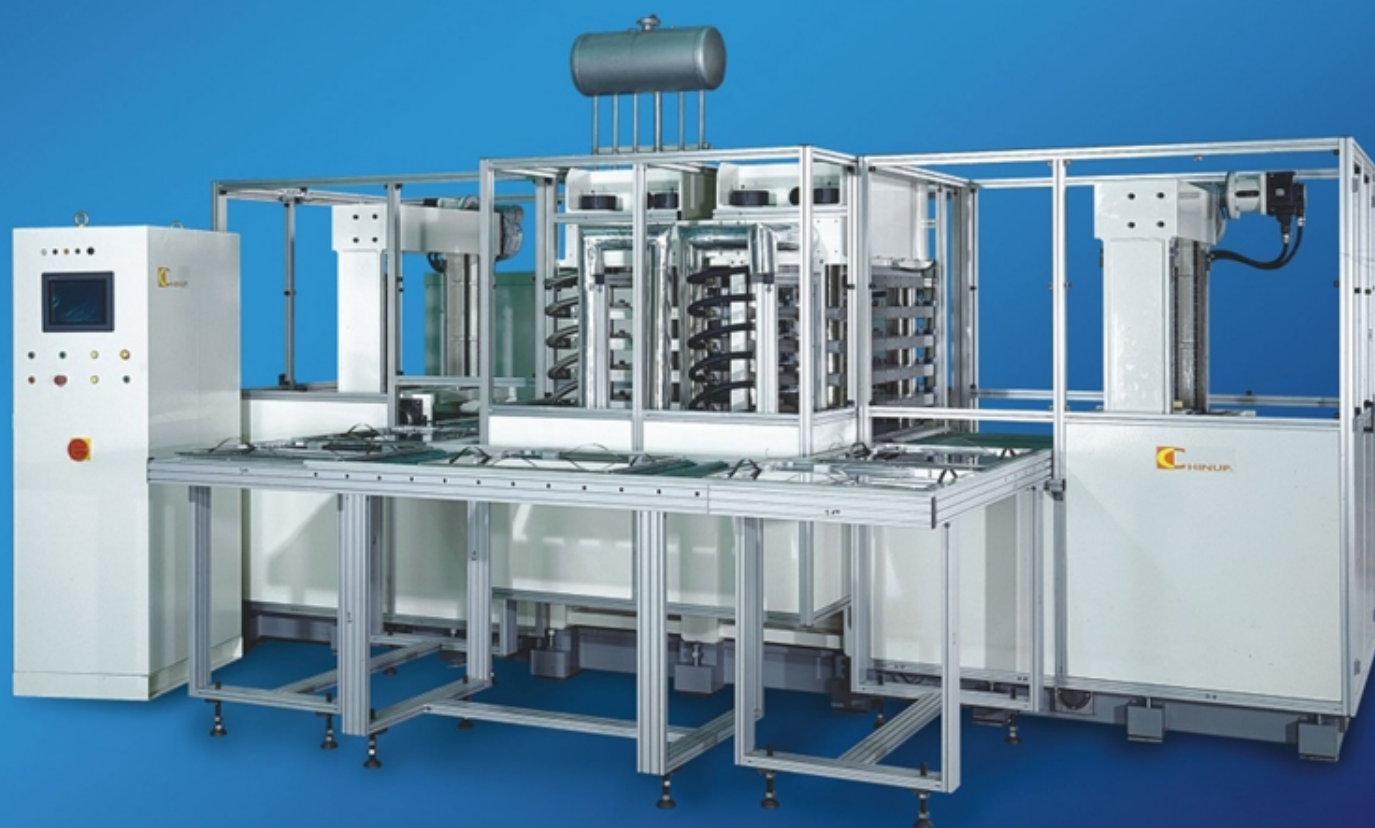


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# CL SERIES

塑膠卡片貼合系統

PLASTIC CARD LAMINATING  
SYSTEM FOR BOTH CONTACT  
& CONTACTLESS CARDS



# CL-5E

## Semi-automatic Plastic Card Laminating Machine



- CE compliance electrically interlocked safety guards to ensure a totally safe operating environment.
- The heating and cooling presses are built from single welded solid frame. The high rigidity machine body provides excellent parallelism of all the platens to ensure high accuracy of machine operation.
- An air-conditioned oil cooler accurately controls the operating temperature of the hydraulic system to enable the machine to run continuously 24 hours a day with consistent laminating quality.
- A touch-screen operator interface with machine dialogue and self-diagnostic trouble shooting makes the machine user friendly.
- The programmable multi hydraulic pressure setting in different heating and cooling stages and the high precision temperature control thermo oil heating system can ensure perfect laminating results.



- Manual roller conveyor.
- Material preparation stand.



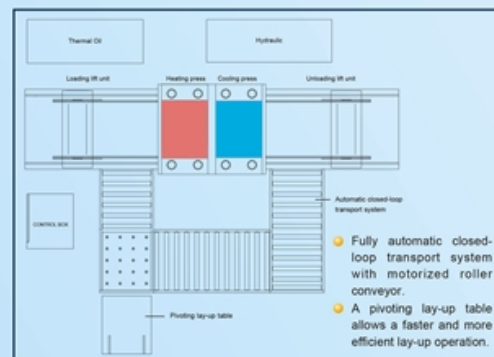
- Manually load material cassettes to loading lift unit on the semi-automatic system. The loading lift unit senses the material cassette and lifts it gradually. After the loading lift unit is fully loaded, it transfers all material cassettes to the heating press and transfers the cassettes from the heating press to the cooling press automatically.



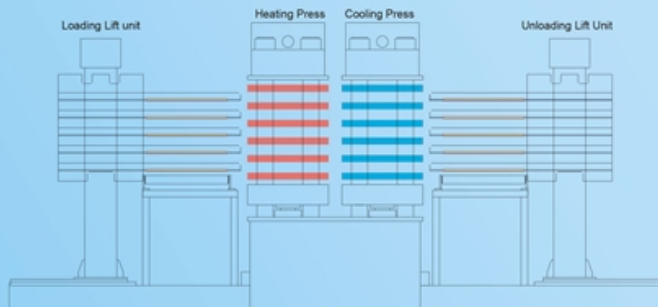
- The unloading lift unit moves into the cooling press to take out all material cassettes automatically when the cooling process is completed, and then descend gradually to allow each cassette to move out to the roller conveyor.

## Full Automatic Plastic Card Laminating Machine

# CL-5A



## Heating Press and Cooling Press for both Full automatic and Semi-automatic machines



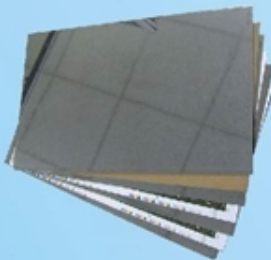
- Independent heating press and cooling press can avoid the costly heating up and cooling down of the same platens during laminating process. It not only saves a lot of energy but also reduces the cycle time.
- The heating press is heated with thermal oil, which offers a much better temperature distribution than electric heated platens.
- The cooling press is cooled down through a closed-circuit cooling water system. (External cooling water tower can be provided by Chinup as an option.)
- The transfer system between the heating press and the cooling press stabilizes the material in the heated condition by fast transfer into the cooling press and thereafter uniform cooling of the material over the complete area.
- Both the heating press and the cooling press are equipped with multi hydraulic cylinders. The individual controls for the pressure and the feed back system of each cylinder ensure the excellent parallelism of all platens and high accuracy of machine operation.
- A special synchronized mechanical stop device incorporated with the programmable multi hydraulic pressure setting system ensures perfect laminating results even for contactless cards.
- The excellent temperature control and the feed back system ensure an even temperature distribution. The temperature tolerance of single platen is  $\pm 1.5^{\circ}\text{C}$ , and the average temperature tolerance of platens is  $\pm 1.0^{\circ}\text{C}$ .



## Specifications:

Model No.	CL-5E	CL-5A
Press surface	600*750 mm	
Max. laminating area	540*640 mm	
Number of opening	5 openings	
Daylight per opening	80 mm	
Thickness of platens	50 mm	
Flatness of platens	0.05 mm	
Parallelism of platens	0.05 mm	
Max. number of cards per sheet	54 cards	
Number of sheet per opening	10 sheets	
Max. pressure of heating press	60 tons	
Max. pressure of cooling press	100 tons	
Heating system	Thermal oil	
Max. operating temperature	200°C	
Total heating power	54 KW	54 KW
Total electric power	73.7 KW	75.2 KW
Cooling system	Cooling water tower (option)	
Max. hydraulic pressure	210 bar	
Min. hydraulic pressure	20 bar	
Total open stroke	400 mm	
Total horse power	19.7 KW	21.2 KW
Capacity	10800 cards per hour	
Required operator	2~3	1
Machine dimension	5860W*5200L*3500H mm	

- The above capacity is based on a 15-minute cycle time and 10 laminate sheets per opening. Definite capacity depends on both operation process and material.
- The machine can be custom-built for special laminating areas and different number of openings (3-12 openings available).



- A pivoting lay-up table allows a faster and more efficient lay-up operation. The table is an option for semi-automatic system, but is standard on the automatic system.



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# CPS-3A

**High-Speed Automatic Card  
Punching & Stacking Machines**





# Achieve up to 35% higher output with the Chinup CPS High-Speed Automatic Card Punching & Stacking Machines

## The Chinup CPS High-Speed Automatic Card Punching & Stacking Machines

use a superior mechanically powered system that delivers automated, high-volume cutting of stacked and printed material in any commercial format. inboard and outboard ball-screw, servo-drive grippers ensure positioning accuracy of  $\pm .1\text{mm}$  and optical sensors with a registration mark tracking system holding cut-to-print tolerance of  $\pm .1\text{mm}$ .

## Output is up to 35% Higher Than Standard Card Punching Machines

Driven by a superior mechanically powered mechanism, the Chinup CPS production rates are up to 35% higher than standard hydraulic systems. The faster speed of the mechanism shortens the punching cycle and together with a unique receptacle device eliminates the dwelling time for card stacking during the punching cycle, thereby resulting in much higher output.

## Energy Efficient and Quiet

The superior mechanically powered mechanism eliminates the complicated hydraulic circuits and oil cooler, which results in a much more efficient use of electrical power and cuts energy consumption up to 25%. The mechanism's precise components greatly reduce running noise and vibration, delivering very quiet machine operation. This is especially important when the machine is on the higher floors of a building.

## Precise Temperature Control Ensures Consistently High Punching Quality

Because the Chinup CPS does not use hydraulics, the temperature of the punching system does not vary due to fluctuations in the temperature of the hydraulic oil. These temperature fluctuations can cause inconsistent punching quality for some kinds of card materials. The Chinup CPS produces superior punching quality over long-run, continuous operation, because there is no hydraulic oil temperature variation.



*Front View*



*Rear View*

*The Chinup CPS can be customized to meet any special sheet format and material.*

## Easy Operation and Maintenance

A touch-screen operator interface with machine dialogue and self-diagnostic troubleshooting makes the Chinup CPS very easy to operate. Interlocked safety guards with a safety circuit help provide a safe operating environment for the operator. Because there is no hydraulic oil to deal with, it is very easy to keep the components clean, reducing maintenance time.



- Auto-sheet feeder.



- A sheet detection system with a display panel includes a circuit that stops the machine when the thickness tolerance is over the preset parameter.



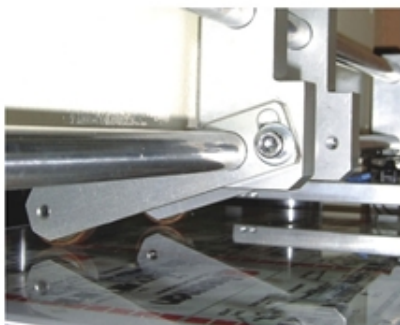
- Vacuum suction pads pick up the sheet from the material loading stand and move it into the alignment area.
- Sheet peeling device with air blow prevents the sheets from sticking. Optional anti-static device is available.



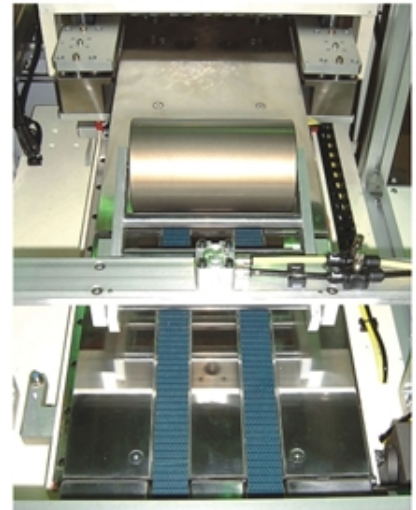
- Inboard ball screw servo-drive gripper ensures a position accuracy of  $\pm 0.1$  mm.
- An air flotation system protects sheets from scratching during feeding.



- Punched card automatic stacking unit.
- The collection rows in each magazine are the same as the number of male and female die cavities. Cards of each row of the sheet can be sorted in the same magazine. This function is good for any special arrangement of card stacking from the sheet format.\*
- Two sets of automatically interchangeable magazines.



- Roller presses sheets down prior to punching, ensuring flatness during the punching cycle.



- Outboard ball screw servo-drive grippers ensure positioning accuracy of  $\pm 0.1$  mm.
- Conveying unit for punched sheets.

\* This specification is standard for CPS-3A, but is an option for CPS-4A, CPS-5A, and CPS-6A.



## SPECIFICATIONS

Model No.	CPS-3A	CPS-4A	CPS-5A	CPS-6A
Cutting Force	5 tons	5 tons	5 tons	5 tons
Main Motor	2 HP	2 HP	2 HP	2 HP
Servo Motor	400 W x 2	400 W x 2	400 W x 2	400 W x 2
Sheet Format	3 x 7 ~ 10 card	4 x 7 ~ 10 card	5 x 7 ~ 10 card	6 x 7 ~ 10 card
Max. Sheet Size	320 x 650 mm	415 x 650 mm	505 x 650 mm	595 x 650 mm
Material Thickness	0.30 ~ 0.84 mm	0.30 ~ 0.84 mm	0.30 ~ 0.84 mm	0.30 ~ 0.84 mm
Card Dimension	According to ISO standard	According to ISO standard	According to ISO standard	According to ISO standard
Throughput	Up to 18,000 cards per hour (layout 3 x 8) or 21,000 cards per hour (layout 3 x 10)	Up to 24,000 cards per hour (layout 4 x 8)	Up to 30,000 cards per hour (layout 5 x 8)	Up to 36,000 cards per hour (layout 6 x 8)
Machine Dimensions (in mm)	2,700(L)/1,450(W) /1,820(H)	2,700(L)/1,550(W) /1,820(H)	2,700(L)/1,850(W) /1,820(H)	2,700(L)/1,950(W) /1,820(H)
Machine Weight	2,550 kg	2,750 kg	3,000 kg	3,200 kg
Compressed Air	200 NL/min.	200 NL/min.	200 NL/min.	200 NL/min.



- Using high-precision laser or optical sensors to track register marks provides punch-to-print accuracy of  $\pm 0.1$  mm.



- Specially designed male and female dies provide perfectly clean punching edges, effectively eliminating burrs.



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# CT-700

## Magnetic Tape Layer



*Options for  
Holomagnetic  
Tape Application  
are available*

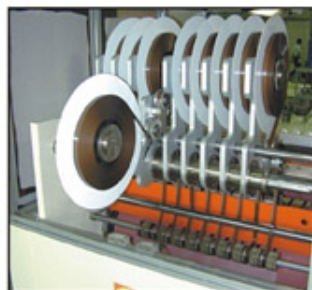


# CT-700 Magnetic Tape Layer

## CT-700's Individual Controls and Adjustable Speed Provide Increased Accuracy and Higher Productivity

Chinup's CT-700 Magnetic Tape Layer features individual control of the heat and pressure for each roller, enabling precision fine-tuning to maintain the highest quality production. Operating speed is adjustable for different overlay material with a suggested operating speed of 5–7 m/min. and a maximum speed of 11m/min. The air-shaft single-roll overlay material stand features adjustable tension control and lateral adjustable capability.

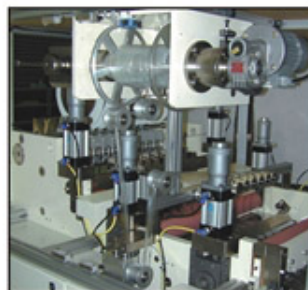
A touch-screen operator interface with machine dialogue and self-diagnostic trouble shooting makes the CT-700 easy to operate. Interlocked safety guards with a safety circuit ensure a totally safe operating environment.



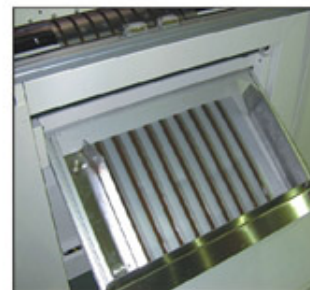
- 8 magnetic tape tracks with tension control are standard with up to 12 tracks available upon request.
- Sensors will stop the machine automatically when it runs out of material.



- There are individual controls for the contact pressure and temperature of each tape application roller.
- The bottom roller can be manually adjusted to vary the contact position, extending the life of the roller.



- Magnetic tape backing film removal and rewind device.



- Finished sheet stacking stand.

## Specifications

Model no.	CT-700RS	CT-700RR	CT-700SS
Overlay type	Roll to sheet	Roll to roll	Sheet
Overlay width	250 ~ 700mm	250 ~ 700mm	250 ~ 700mm
Overlay thickness	0.04 ~ 0.20mm	0.04 ~ 0.20mm	0.30 ~ 0.80mm
Overlay diameter	500mm	500mm	-----
Tape width	6.5mm or 12.7mm	6.5mm or 12.7mm	6.5mm or 12.7mm
Tape diameter	300mm	300mm	300mm
Tape tracks	8 (option up to 12)	8 (option up to 12)	8 (option up to 12)
Tape position accuracy	±0.15 mm	±0.15 mm	±0.15 mm
Operation speed	5 ~ 7m/min.	5 ~ 7m/min.	5 ~ 7m/min.
Machine dimension	1800L*2000W*2150H mm	1800L*2340W*2150H mm	1700L*1700W*2150H mm
Machine weight	2500 kg	2600 kg	2450 kg



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