



Card Solutions For A Better World

# MODEL: HCP-100

## Fully Auto Card Lamination System



***Fully Automatic Plastic Card  
Lamination System***

**HCP-A100**

VICCARD PTE LTD | Tel: +65 6265 2998 |

Email: [viccard@singnet.com.sg](mailto:viccard@singnet.com.sg) | [www.viccard.com.sg](http://www.viccard.com.sg)

# An integrated card making machine with high accuracy and high productivity

## Applications

The machine is an automatic working system for the lamination of contact and contactless plastic cards.

The machine is suitable for PVC, PETG, PC, Teslin etc and for printed and blank core sheets with overlay material.

The machine is also suitable for varnishing application.

## Features

- Heating and cooling presses are independent, so the costly heating up and cooling down of the hot platens during each production cycle is totally avoided.
- The main frame of the heating and cooling presses are constructed of rigid welded steel. Highly accurate alignment between the heating and cooling presses with four rigid post construction ensures cassettes transfer smoothly between heating and cooling towers. The main hydraulic cylinders are hardened, ground and hard-chromium plated. The platens are guided by frictionless material.
- Heating and cooling presses are operated by a separate hydraulic system. A low pressure pump is used to lift the platen at a fast speed, while a high pressure pump is used to keep the heating and cooling presses at a high pressure.
- The pressure settings at the different stages of heating and cooling are programmable in up to 10 steps.
- Unique ratio value keep constant pressure during heating and cooling process. The pressure accuracy is +/- 1 bar.
- The closed-loop transport system significantly reduces material cassette loading and transfer time resulting in much-reduced consumption of energy.
- Uniform application of pressure thereby avoids discoloration.
- The heating temperature is evenly and accurately distributed across the total hot platen area, the temperature accuracy is  $\pm 1^{\circ}\text{C}$ .
- Fast transfer into the cooling press provides uniform cooling of the material over the complete area.
- Fully automatic production cycle eliminates manual operation errors and reduces labour costs.
- The comprehensive touch screen display panel, with its ability to keep thousands of working programs, allows for perfect ease of operation.
- The PC-based fault-finding diagnostics greatly facilitate maintenance and trouble-shooting.
- Production capacity is up to 9000 cards per hour.

## Specifications

**HCP-A100**

### General Technical Data

Press surface	600x750mm
Max. Laminate area	540x640mm
Max. Heating pressure	100tons
Max. cooling pressure	100tons
Number of opening	6
Open daylight per opening	100mm
No. of sheets per opening	10
Net weight	14,200kgs
Dimensions (mm)	4700Lx5500Wx3600H

### Hydraulic Technical Data

Diameter of piston	250mm
Closing speed	20mm/s
Pressing speed	1.1mm/s
Max. Operation pressure	210bar
Min. Operation pressure	70bar
Total stroke	500mm
Motor	5hp
Max. cards per sheet	54

### Platen Technical Data

No. of heat/cool platen	6
Thickness of platen	60mm
Flatness of platen	0.05mm
Parallelism of platen	0.05mm
Max. heating press temp	250°C $\pm 5^{\circ}\text{C}$
Heating system	Thermal oil
Cooling water system	Not incl.
Electric capacity	120kw

## Options

- Advanced design weight compensation device for contactless cards production.
- Large/ Special laminate area for other format available upon request.



Smart & safety heating system



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**SINGAPORE**  
VICCARD PTE LTD  
Tel: +65 6265-2998  
Email: [viccard@singnet.com.sg](mailto:viccard@singnet.com.sg)  
[www.viccard.com.sg](http://www.viccard.com.sg)

**MALAYSIA**  
VICCARD MALAYSIA SDN BHD  
Tel: +603 7960-7932  
Email: [sales@viccard.com.my](mailto:sales@viccard.com.my)  
[www.viccard.com.my](http://www.viccard.com.my)