

# Plastic Card Cutting Systems

# HAWKES



Hawkes engineers a wide range of card punching, stacking, laminating, magnetic tape layer and GSM punching & scribing machines. Customised systems are available to suit all requirements for plastic card production: ID-cards, security cards, bank mini-cards, gift and loyalty cards and more.

**Innovative Supplier of Cutting  
Presses and Systems since 1975**



Innovative Supplier of Cutting Solutions since 1975

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### Auto Card Punching & Stacking Machine

Delivering high-volume, extremely accurate cutting of stacked and printed material in any commercial format. Inboard and outboard ball screw servo drive grippers ensure positioning accuracy of  $\pm 0.1$  mm and optical sensors with a registration mark tracking system hold cut-to-print tolerance of  $\pm 0.1$  mm. A touch-screen operator interface with machine dialogue and self-diagnostic trouble shooting makes the system very easy to operate. The Hawkes Automatic Card Punching & Stacking Machine is also available in 'High Speed' Version: 35% faster than standard systems, low power consumption and noise emission, accurate temperature control ensures consistent high punching quality, simple to use & maintain.

### GSM Module Punching & Scribing Machine

Giving you precise, accurate punching & scribing. The thickness detection system with an easy-to-read display panel ensures that the machine does not punch and scribe when the card thickness is outside of preset parameters. When a defective card is found, it passes through all stations and is put into the defective card magazine. The system ensures accurate positioning - the transport belt is driven by a servomotor with positioning accuracy of  $\pm 0.05$  mm. A positioning device accurately locates the cards for precise punching. Then a pneumatic punching system, together with a high-precision male and female die, delivers consistently high quality scribing. At the scribing station, a pneumatic tool knife scribes lines with extreme precision on both sides of the card where the narrow "bridge" connects the SIM chip to the card body. A positioning device accurately locates the cards for scribing, allowing the SIM chip to break out easily from the card body when needed. A scribing depth display panel continually shows the scribing status. This feature eliminates over scribing and saves adjustment time.



### Hawkes Plastic Card Laminating System for Contact & Contactless Cards

Robust construction & parallelism ensures accurate laminating is always achieved. The heating press and cooling press are equipped with multi-hydraulic cylinders. Individual controls for the pressure and feedback system of each cylinder ensure excellent parallelism of all platens and highly accurate machine operation. Precise temperature controls allow control of the temperature of a single platen to within  $\pm 1.5^\circ$  C and the average temperature of the platens to be within  $\pm 1.0^\circ$  C. The precision thermal oil heat up system provides better temperature distribution than electrically heated platens. Constant-temperature oil cooler accurately controls the operating temperature, enabling the system to run continuously 24 hours-a-day with consistent laminating quality. A special synchronized mechanical stop device, combined with programmable multi-hydraulic pressure settings in different heating and cooling stages, ensures perfect laminating results even for contactless cards. The latest touch-screen operator interface with machine dialogue and self-diagnostic troubleshooting makes the system easy to operate.



### Tooling

Hawkes can supply all types of plastic card cutting dies including match metal card trim dies and sharp edge card trim dies. Hawkes can supply tooling for a wide variety of applications and materials, including PVC, Polycarbonate, ABS, Polyester, PET and more.

### Hawkes Magnetic Tape Layer Machines

Hawkes 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 normal operating speed of 5 ~ 7m/min. The air-shaft core clamp single-roll overlay material stand features adjustable tension control and a lateral moving device.

A touch-screen operator interface with machine dialogue and self-diagnostic trouble shooting makes the system easy to operate.



### Hawkes showroom facilities

Set up 52 weeks a year with a range of new and used presses. You are welcome to visit us anytime. We also offer fully tailored systems to suit all your cutting needs.

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