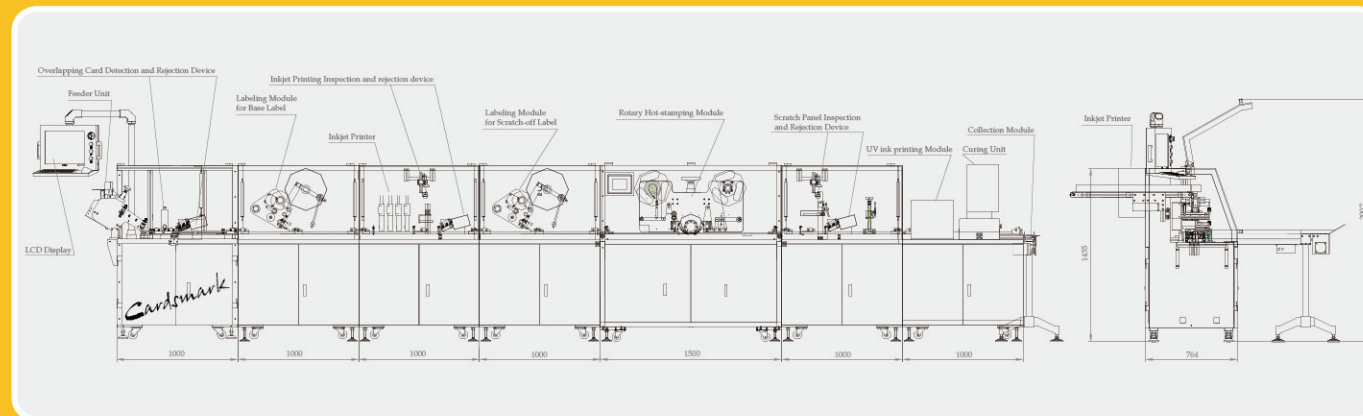
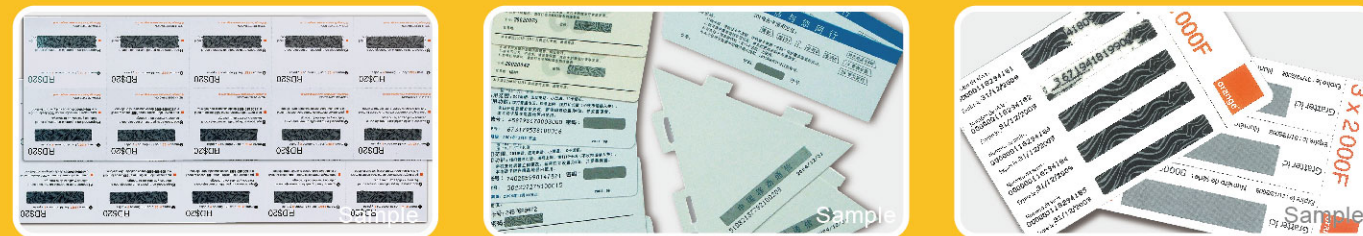


Technical Specification

Machine model	Cardsmark
Card Material	PVC, Paper
Card size	(L)45~100×(W)40~120×(T)0.3~1.2 mm
Labeling Speed	20,000 cards/hour (CR80 card) (depend on printing data and inspection speed)
Hot-stamp Speed	15,000 cards/hour (CR80 card) (depend on the compatibility of card and card material)
UV ink printing Speed	12,000 cards/hour (CR80 card)
Inkjet Printing Inspection	26~45 digits/code Error I (missed fault) < 1 per mil. Error II (mis-reject)< 2%
Labeling Precision	±1mm(along movement direction) ±0.5mm(across movement direction)
Scratch-off coverage inspection	Positioning error (> +/- 1.5 mm) Inspection reliability > 99%
Power Consumption	220VAC 50Hz 3.5kW Air 0.6 Mpa
Environment	Ambient temperature 5~50 °C Relative Humidity 15~90% (w/o condensation)
Weight	Approximately 1,000 Kg (subject to options selected)
Dimensions	Approximately (W)0.76 x (L)7.496 x (H) 2.0 m (subject to options selected)

(Different functional modules are available for customer's special needs.)



Colamark Card Personalization System

Colamark



Colamark • *Cardsmark*
Card Personalization System

For continuous improvement on design and product innovations, all specification data are subject to change without prior notice

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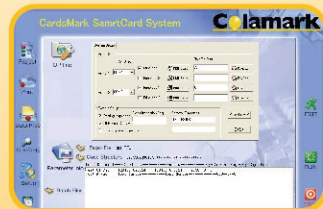
Colamark Technologies Limited

820 Topsail Plaza, 11 On Sum Street, Shatin, Hong Kong
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| Hong Kong | Guangzhou | Shanghai | Beijing | Shenyang | Qingdao | Wuhan | Chengdu | Kunming |

Colamark • Cardsmark

Card Personalization System

Cardsmark offers reliable on-line inspection with state-of-the-art machine vision devices



1 Control Program

Receives and encrypts the input database, downloads data to the inkjet printers for printing, maintains a log of printed data, and records data on the rejected cards, as well as generates operation records and management reports



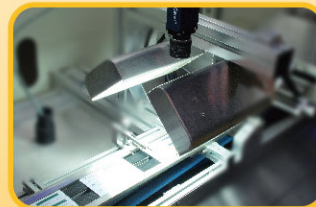
2 Feeding Module

Comes with horizontal card loader, a separation and feeding mechanism with transport conveyor, thickness and length detection and rejection box



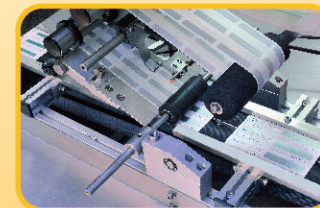
3 Inkjet Printing Module

Comes with a module cabinet with transport conveyor and cover, inkjet printer mounting for 3 printheads, or up to 8 upon the requirement. (inkjet printers quoted separately)



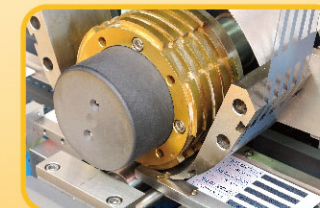
4 Inspection Module

Comes with a module cabinet with transport conveyor and cover, an inspection station with OCR high resolution camera, lighting and rejection device



5 Labeling Module

Comes with a module cabinet with transport conveyor and cover, and a label application engine



6 Hot-Stamping Module

Comes with a module cabinet with transport conveyor and cover, a rotary hot-stamping device. Featured with intermittent foil movement to minimize foil usage



7 UV ink printing Module

For overprinting a cross edge pattern with UV curable ink on the card. Comes with a printing station, one set of printing plate, an UV cure station, a cooling air pump unit a base cabinet and transport



8 Collection Module

Comes with a module cabinet with transport conveyor, to collect the cards after processing

Cardsmark is a modular system for the personalization of cards with PINs. The system feeds cards, inkjet or laser prints the cards for personalized information and PINs, inspects the printed data, covers the PINs with a scratch panel, and collect the cards properly, all steps in one pass.

Cardsmark is equipped with powerful data processing capability for personalization data; characterized with outstanding performance, high throughput capacity, and flexible configuration.