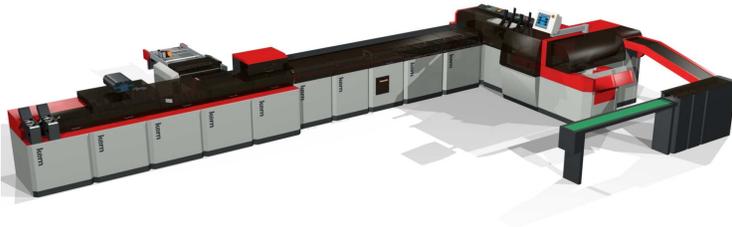# On-demand printing and affixing:
The Kern 90
Card Attaching System

From credit cards to hotel room keys, the Kern 90 can attach almost any kind of card to your custom-printed carrier. The K90 prints card carriers on demand before attaching the cards to their carriers by either an adhesive label or gluing. Both the card feeder module and the adhesive supply module are extremely compact in design and feature a monitoring system to alert operators of low levels of cards or adhesive.

Robo-Card: Fast, Accurate, and Flexible
Kern's twin-armed robot represents the latest in card application technology. With speed, accuracy, and repeatability, the pick and place robotic arm is light years ahead of current tipping technologies.

The Robo-Card ® is equipped with four independent axes. Based on specific inputs, the Robo-Card is capable of determining, in real time, the exact position for card placement. Using an integrated vision system, the Robo-Card can place a card within five thousandths of a millimeter.

Advanced Reading
The K90 is equipped with the latest in reading capabilities. All reading takes place with the cards in the vertical position, ensuring the most precise reading. The K90 CardSystem is able to monitor processing at every step and all production data is available for immediate evaluation. A sophisticated ADF solution ensures the integrity of each mail piece from start to finish.

Easy Operation, Flexible Options
The automatic card feeder is ergonomically located on the operator side of the system. The feeders can be loaded continuously either A-Z or Z-A. For added capacity, the card feeders may be used in flip-flop mode. The K90 can be equipped with up to eight card feeders.

Kern DMF

Document Mail Finishing: High-Speed Inserting Systems.

DMF constitutes Kern's core field of activity that focuses on the need to ensure that large production volumes are mailed reliably and securely.

Benefits of the Kern 90

Card Solution
The K90 addresses the various, complex needs of the plastic card and service industries.

Easy to operate
Ergonomic user interface

High Performance
Processes 7,000 cards (one Robo-Card module) and 12,000 cards per hour (with additional Robo-Card module)

Flexible
Capable of automatically processing a wide range of plastic card operations.

www.kerncan.com

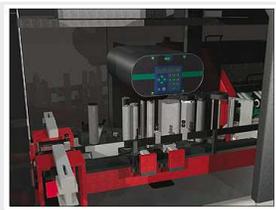## Components of the Kern 90 CardSystem

Automatic Suction Card Feeder

-Allows easy access from one side.
-Enables continuous loading from A to Z or from Z to A.
-Capacity for large stacks of cards.
-Stack-level monitoring.
-Double-feed detection.
-Up to eight Card Feeders can be installed.
-Card Feeders can operate alternately in flip-flop mode

Card Conveyer

-The vertical transport of cards facilitates the reading of codes.
-Comprehensive tracking and integrity control ensure security.
-The card readers and adhesive applicator are easy to access.
-A card turning unit is provided for specific applications.
-Card transport is servo-driven.

Card Readers

-The system can include various types of card ID readers in order to handle magnetic strips, chips, barcode, datamatrix and OCR.
-Several readers can be employed simultaneously.
-Database-controlled processing is possible.
-Reading is of the highest quality and reliability.

RoboCard Application Mod-

-At very high speeds, cards can be positioned on the carrier sheets with astonishing accuracy and at any angle between 0° and 360°.
-The integrated vision system makes the module easy to program and set up.
-Cards can be attached with glue or double-sided adhesive.

Product Specifications

Material: PVC, Polystyrene, Polypropylene, Cardboard
Format: ID 1 ISO 7810 w. 3 ¼" x h. 2"
Print: Laser, Screen, Thermo, Off-set, Dry off-set
Security: Hologram, Micro-font, Ultraviolet Scratch card
Reading: Magnetic strip, Micro chip, OCR Barcode

Speed: 7,000 PPH

Integrity: No degradation of throughput with the addition of inserts.

The success of our customers is the most important part of our business. At Kern, we believe that we don't succeed unless our customers succeed. Fast machines, advanced technology, and outstanding technical support are the fundamental strengths of what we do. By establishing a mutually beneficial partnership, both our customers and Kern are able to achieve success and we back it up with a guarantee.

*"Your Kern product is **guaranteed** to provide a minimum of Ten Years of production grade output, when maintained under a Kern Full Service Maintenance Agreement. If we can't fix it, we'll replace it. Period."*

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