



Kern AG
Hünigenstrasse 16
3510 Konolfingen
Switzerland
Tel. +41 31 790 35 35
Fax +41 31 790 35 45
www.kern.ch

Kern 90

Card System

kern
document output management

The Kern 90 CardSystem: a groundbreaking card processing solution.

The Kern 90 CardSystem is yet another innovation from the Kern Group, whose more than 50 years experience with inserting systems has enabled the company to develop a new and exciting card system.

The Kern 90 CardSystem is notable for its extremely versatile and modular design. The system's pick and place robot allows up to eight cards to be placed anywhere on the document, while its linear structure allows for throughput of 8000 cards per hour – a significant gain in productivity.

The Kern 90 CardSystem's user friendly software allows for a database controlled procedure in which all cards are compared with the carrier document and inserts, and are then validated

and inserted. Each processing step is monitored, and an ergonomic user interface makes system operation extremely simple and intuitive. And what's more, all product information is available for ad hoc evaluation purposes.

The use of a pick and place robot allows cards of varying thicknesses, sizes and forms to be processed. This means that your marketing team can give its imagination free rein in designing of different cards.

The Kern 90 CardSystem can be connected to a Kern 2500 or 2600 inserting system – which means that customers can continue to use their systems to process "standard" insertions. Hence in effect the customer gets a two in one system that dovetails optimally with today's market needs.

The Kern 90 CardSystem is a genuinely groundbreaking solution that is ideally suited to the high standards and complex technical requirements of today's plastic card industry.

The Kern 90 CardSystem at a glance

- Throughput: 8000 cards per hour
- Up to eight cards per document
- Allows for processing of cards of various sizes, shapes and thicknesses
- Connecting a Kern 2500 or 2600 transforms the Kern 90 CardSystem into a genuine two for the price of one solution.
- Extremely secure processing
- Job changes are quick and only require a few work steps
- Modular structure allows for customized solutions
- User friendly software



Kern 90 CardSystem

RoboCard Application Module

- Cards can be positioned on the carrier at a speed of up to 8000 cards per hour.
- Optional pick and place Robot for cards at a speed of up to 12000 cards per hour available.
- Card positioning with an accuracy of ± 0.5 mm and at any angle from 0° to 360°.
- High level of versatility in card attachment.
- The integrated vision system makes it easy to program and set up the module.
- Cards can be attached to the carrier with glue or double-sided adhesive.
- No need for maintenance.
- Automatic adjustments for job changing.

Automatic Suction Card Feeders

- Enables continuous loading A to Z or Z to A.
- Capacity for large stacks of cards.
- Optional autoloader for higher capacity loading.
- Stack-level monitoring.
- Double-feed detection with any kind of plastic card.
- Handles transparent cards and cards with embossing.
- Installation of up to eight Card Feeders.
- Card Feeders can operate alternately in flip-flop mode.

Versatility of Card Formats / Performance

- Several Card formats can be processed, not only the standard ISO 7810.
- Range of thicknesses: 0.30 – 1.20 mm.
- Handling of irregular shaped cards.
- 8000 card placements per hour with DENSO Robot.
- 12000 card placements per hour with ADEPT Robot.

Features and Functionality

Card Readers

- The system can include various types of card ID readers: magnetic strips, microchips (contact and contact-less), Barcode, Datamatrix, OCR.
- Card reader functionality "AND" – "OR".
- Several readers can be employed simultaneously.
- Option for Database-controlled processing.
- High quality and reliable reading.

Versatility of Card Formats

- Various paper carrier inputs: either from Cut sheet, Fanfold or Roll.
- Different paper formats can be processed: A3, A4, A5, and A6.
- All input modules are manufactured by Kern AG.



Additional Modules and Processing Options

- Job creation software included.
- To enable the inclusion of cards in multiple-page mail pieces, the system can encompass a variety of document and enclosure feeders, grouping and folding modules.
- The Kern 90 is designed to interface with Kern Inserting Systems.
- Option to run application without an inserting process.
- Database-driven inserting and integrity control available as security-enhancing options.
- Finished mail pieces can be sorted in accordance with a variety of criteria.

