

MAGMASTER

High Speed Hotfoil Application System



CARD SYSTEMS

DOCUMENT & PRODUCT IDENTITY

IMPACT NUMBERING



High Performance Hotfoil Application System for Cards

The MAGMASTER stand-alone system provides accurate and quality hotfoil application at high speed. The system applies magnetic foils, signature panels or scratch-off patches to nearly all common card materials (even raw paper) – gift cards, pre-paid telephone cards, loyalty cards, insurance cards etc. Well-proven high speed components are the basis for high volume card application. The system fulfills the demands for the highest level of security and lowest cost per card. MAGMASTER – the unique system with an effective price to performance ratio.



Typical card samples for hotfoil applications.

Compared to tape laying processes the Atlantic Zeiser MAGMASTER is a highly efficient solution offering for all card personalizing companies:

- No lamination process required
- Graphical and magstripe perforation in-house
- Start-up possibilities with white blank cards
- Processing of all card types including monoco cards and hangtags (injection moulded cards can be processed)
- Single person operation

Best-in-class high speed and secure production without cost interruptions

The feeder is equipped with a vertical card holder which holds more than 800 cards. Optionally, the capacity can be expanded to over 2,000 cards by using a horizontal feeder. Cards can be uploaded without stopping the system. Double card detector is standard.

The transition of the cards from the feeder to the transport system is controlled by a photocell for proper synchronization. The chain on a lateral guide rail system perfectly positions the cards longitudinally and transversally.

- Quality at high production speed up to 25,000 cards/hour
- The special designed Hotfoil Application System allows the application of:
 - Magnetic stripes (HiCo & LoCo)
 - Signature panels
 - Scratch-off-foils
 to nearly all common card materials (even raw paper) and fulfills the demands for highest level of security and low cost per card
- Proven components and state-of-the-art technology
- High flexibility with various card materials
- Easy to operate
- Problem-free integration into existing quality standards
- Modular design



Atlantic Zeiser – one single supplier for optimized and efficient handling in your hotfoil application needs.

Accurate quality application

The MAGMASTER consists of an electrically heated application wheel (segmented or non-segmented), an unwinder of the foil roll and a rewinder of the foil carrier after application, integrated with a unique chain transport unit with minimal card spacing leading to minimum foil consumption. The temperature of the application wheel is electronically adjustable and controlled. Synchronization of the application cylinder, the foil transport and the card transport is electronically controlled.

In the processing unit, a heated application wheel applies the foil onto the cards. Interchangeable application wheels for different purposes are available:

- Continuous application wheels for full-length foil stripes
- Segmented application wheels for foil segments
- Wide or narrow wheels for different widths of foil



High speed hotfoils from Atlantic Zeiser

To increase the efficiency in card production Atlantic Zeiser develops and offers hotfoils specially designed for its systems. High speed foils and the MAGMASTER form a complete system offering efficient performance and reliable security with unrivaled sustained throughputs of up to 25,000 cards/h. Scientific foil tests guarantee a permanent quality process.

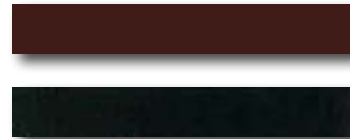
As the card surface conditions heavily influence the behavior of foils during application Atlantic Zeiser additionally offers tests of customer provided cards in order to allow the selection of the right foil to meet customer requirements.

Highly secure and flexible

Ideal for pre-paid phone cards, gift cards, customer cards, loyalty cards and many other applications on various substrates such as plastic or paper cards and different card formats (CR80, hangtags).

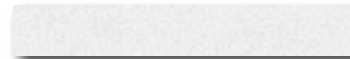
Magnetic stripe

- Excellent read and write properties
- Optimal for high speed
- Highly scratch-resistant
- LoCo (ISO 7811/2), HiCo (ISO 7811/6)



Signature panel

- Excellent adhesion
- Effective protection
- Customer-specific colors and overprint available



Scratch-off foils

- Effective fraud protection
- High security (metallized diffractive structure)
- Customer-specific design possible
- Pigmented – metallized – metallized diffractive



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Technical Specifications – System Data	
Dimensions	Length: 3,900 mm 153.5 inches
	Width: 841 mm 33.1 inches
	Height: 1,650 mm 65.0 inches
Weight	Approx. 950 kg
Noise	≤ 82 dB (A)
Power Supply	400 VAC ± 5% / 50...60 Hz / three phases + neutral + PE / 12 kVA
Ambient Temperature	15 - 30 °C
Relative Humidity	Max. 60% at 30 °C not condensing
Compressed Air Supply	6 bar
Air Consumption	Approx. 200 liters/min

Technical Specifications – Production Data	
Production Speed	Up to 25,000 cards/h (depending on foil type and card material)
Tipping Speed	1.5 m/min
Card Formats	Thickness: 0.3 - 1.00 mm 12 - 40 mil inches
	Length: 54 - 86.4 mm 2.1 - 3.4 inches
	Width: 54 - 203.2 mm 2.1 - 8.0 inches

Technical Specifications – Hotfoil Application	
Application Temperature	120 - 240 °C
Application Pressure	780 - 2,000 N
Foil Width	Min. 8 mm 0.31 inches
	Max. 16 mm 0.63 inches
Reel Capacity	1,750 m – corresponding to approx. 19,250 cards
Preheating Time	20 min for 160 °C application temperature
Card Material	Most common card materials, modifications of surface and/or foil modifications may be necessary for some materials
Foil Type	Special high speed application foil

