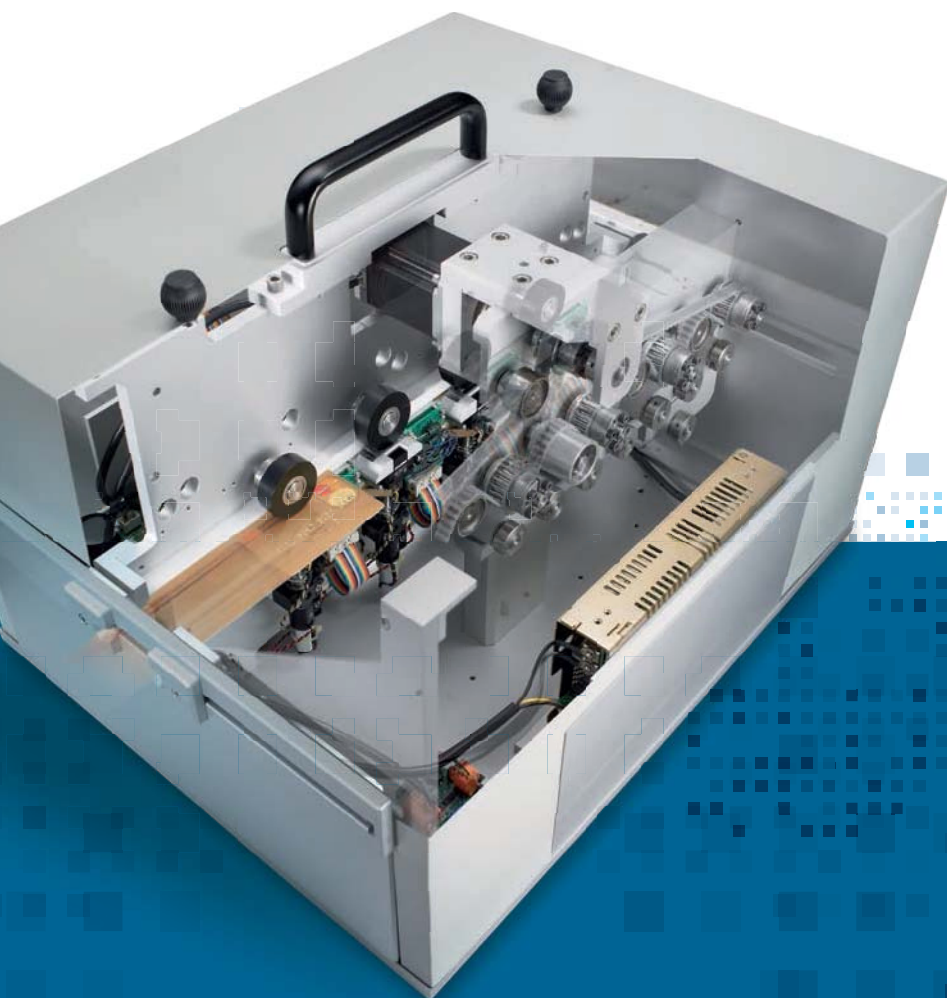


High-Speed Card Encoding



HWR

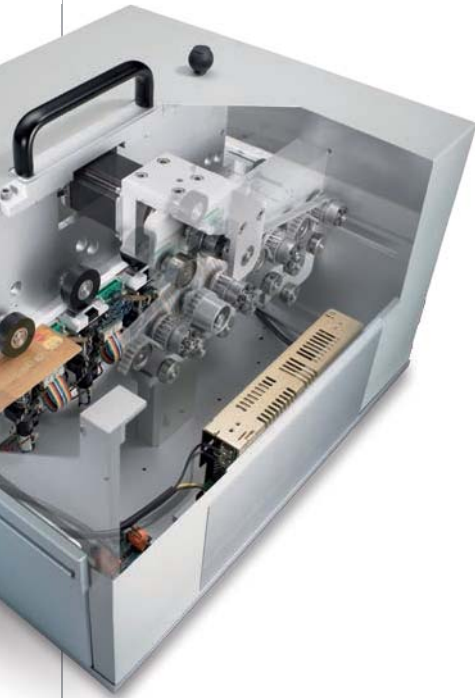
Intelligent Magstripe Encoder with a top speed that delivers

OEM
QUALITY ASSURANCE
PRODUCTION
DESKTOP
ACCESSORIES

RINAS HWR

RINAS HWR – UP TO 18K CARDS/HOUR ON UP TO 3 TRACKS SIMULTANEOUSLY

The Rinas HWR reliably encodes and accurately reads up to 18,000 magnetic cards or paper tickets an hour. Software switching between HICO and LOCO along with its ability to write and read up to 3 tracks simultaneously set this unit apart.



Absolutely safe: continuous testing and individual encoding

The Rinas HWR automatically executes an inline check of each individual card thus ensuring perfect quality assurance. This includes a plausibility check as well as a check of header bits, start and end characters, parity, bit density and the calculation of checksums of all standard and customer specific norms. This authentication of the read-back data is performed via an independent device (HSR10) and, as such is completely independent of the encoding. In addition, this read-back information can be transmitted to the host system to undertake subsequent verification of the encoded information.

Longer operating life due to intelligent magnetic head technology

The read and write heads of the Rinas HWR can be positioned by software to suit the relevant thickness of the card. This not only reduces the applied force to the necessary amount but is kind to both hardware and the cards. The HICO and LOCO heads can be mechanically separated from each other depending on the configuration; those magnetic heads which are not currently required can be retracted at any time thereby considerably reducing wear and tear. The magnetic head unit will automatically signal when head replacement is necessary.

Variable and easy to integrate

The Rinas HWR processes plastic and paper cards in formats corresponding to ID-1 as well as cards in all special sizes (e.g. gift cards) up to 204 mm wide and 1.5 mm thick. Transparent, metallic and even embossed cards are also possible to encode. The fact that the cards are transported straight through the device allows the Rinas HWR to fit perfectly into existing production lines.

* The HWR is available in 2 versions:

With one write and one read head (up to 18,000 cph) or with 3 write heads and one read head (up to 12,000 cph HICO / 18,000 cph LOCO). Amplitude supervision for improved QA is available for both versions but requires additional read logic (ISS-Light).

Encoding Parameters

Magnetic Stripe

- LOCO: Up to 3 tracks
- HICO: Up to 3 tracks
- 300 Oe to 4,000 Oe

Bit Density

- Standard
Tracks 1 & 3: 210 bpi
Track 2: 75 bpi
- Customized
Up to 3x 300 bpi

Encoding

- Standard:
Track 1: Alpha-num.
Tracks 2&3: Numerical
- Free bit encoding
- Customized

Modulation Type

- Standard: F2F
- Optional: Other types are available on request

Card Parameters

Card Dimensions

- Length: 85.7 mm
Others on request
- Width: 54.0 mm to 204 mm

Card Thickness

- 0.2 mm to 1.5 mm

Card Types

- All colours
- Transparent cards
- Embossed cards

Standards

- ISO 7811
- JIS
- Visa Mini Card
- AAMVA
(US driver's licence)

Equipment Parameters

Throughput (cards / hour)

- Up to 18,000 (2 heads*)
- HICO: ≤ 12,000 (4 heads*)
- LOCO: ≤ 18,000 (4 heads*)

Service Times

- Head replacement:
< 10 min. per head

Control

- 2x RS232
- 5x Digital outputs
- 6x Digital inputs

Temperature Range

- Operating: +10°C to +35°C
- Storage: 0°C to +40°C

Magstripe Location

- Bottom right

Power

- 110V/230V AC (2A/1A)

Unit Dimensions (mm)

- L/W/H: 550/432/400

Weight

- Approx. 45 kg

