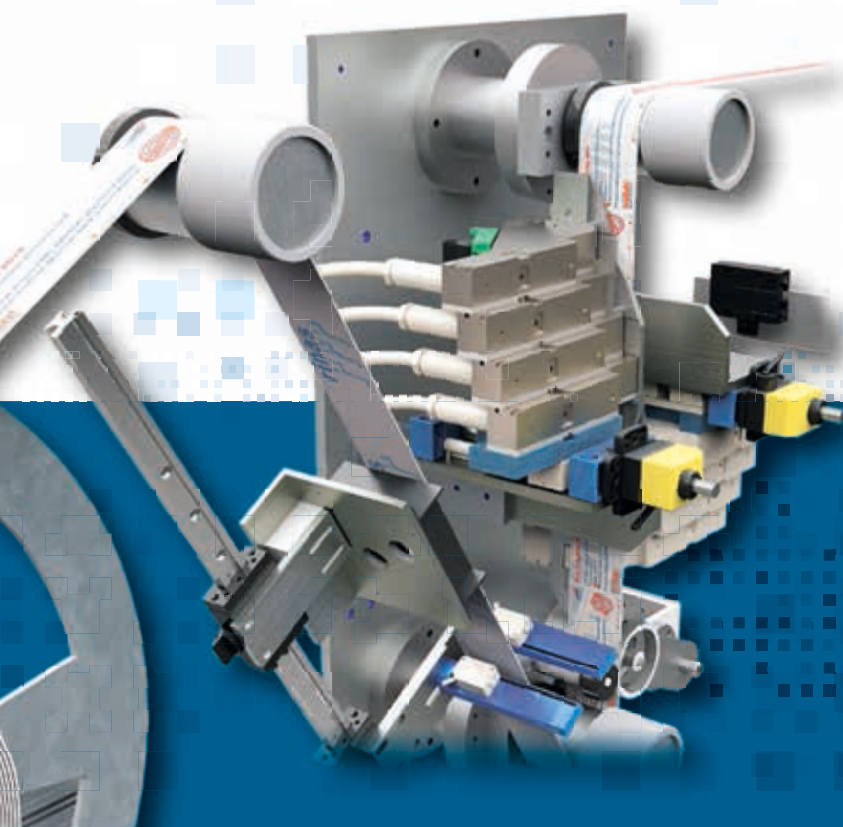# Continuous Encoder for RFID / MagStripe Tickets

**rinas**

RFE

Scalable number of RFID readers
for various ticket lengths and widths

OEM
QUALITY ASSURANCE
PRODUCTION
DESKTOP
ACCESSORIES

RINAS RFE

RINAS RFE – CONTINUOUS ENCODING WITH FLEXIBILITY OF USE

The RFE encoder has been designed to process both continuous and perforated tickets of differing lengths and widths; all that is required is a print mark on each ticket for correct positioning. All current RFID standards have been catered for as has ISO7811 for MagStripe encoding of HICO and LOCO tickets.
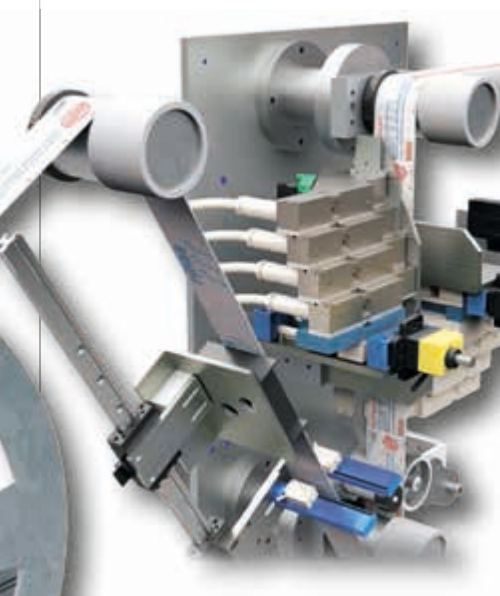
Parallel RFID programming

The number of transponders is determined by you[1] for parallel processing of large data volumes to boost throughput. The standard antenna is able to process (HF) Mifare®, Legic® as well as (LF) I-Code, Hitag™ and EM.

Print function – even on both sides

High resolution monochrome printing is achieved using ink-jet printer technology using HP ink cartridges and dedicated software for the layout. The print controller can address up to 4 heads which enables a print area up to 4x 12.7 mm (48 mm) per side to be covered. The design flexibility inherent in the RFE permits 2 such controllers to be fitted enabling a variety of print possibilities for simultaneous printing on both sides.

The special inks[2] used do not need a curing station, which greatly reduces the machine's running costs and the print unit itself is capable of printing all common alphanumeric fonts, barcodes, 2D-codes and logos at resolutions up to 600 dpi at a staggering 30 m/min.

Scan function – even on both sides

The prime function of the scanner is to determine the readability and quality of barcodes, 2D-codes and alphanumeric text. Dedicated software configures the scanner, enables mask creation and analyses information on-the-fly.

Second RFID identification position

The ticket can be identified once again by its UID which, when used in combination with a previous scan operation, serves as a verification tool. Should the print, for example, be unreadable or carry the incorrect information for that ticket then this ticket can be nulled.

Marking defective tickets

Optical recognition of a defective ticket (chip defect, print unrecognizable…) is accomplished with a marker pen which is positioned on either the front or rear of the ticket.

Included Software

Control Software
- Rinas RPW software
- Rinas RiC software
- Printer software
- Scanner software
- RFID software (optional)

Ticket Parameters

Ticket Dimensions (Std.)	Ticket Thickness	Ticket Types
■ Length: min. ~40.0 mm ■ Width: min. ~30.0 mm max. ~87.0 mm	■ ~0.15 mm to ~0.6 mm	■ Print mark per ticket ■ All colours - print mark must be recognizable

Encoding Parameters and Accessories

MagStripe	Encoding	Scanner	Print Module (Ink Jet)
■ HICO/LOCO up to 3 tracks ■ 300 Oe to 4,000 Oe	■ ISO 7811 ■ Customized	■ Barcodes (common) ■ 2D-codes (common) ■ OCR	■ Monochrome print ■ Print width: 12.7 mm per head (up to 4 heads) ■ Print speed: ≤ 30 m/min ■ Resolution: 600 x 600 dpi
Stripe Position ■ Front or rear ■ Fixed/adjustable (opt.)	**RFID** ■ Legic®; Mifare®; I-Code, Hitag™, EM		

Equipment Parameters

RFID Throughput	Power	Control (PC to RFE)	Weight
■ Depends on data	■ 230 V AC, approx. 300 VA (without PC)	■ 1x USB ■ 1x Ethernet	■ Approx. 200 kg depending on options
HICO/LOCO Throughput ■ Up to 10,000 cph for ID-1 sized cards			**Dimensions (m)** ■ L/W/H: 2.2/0.7/1.7

[1]depending on the max. space available [2]depending on the paper or medium used