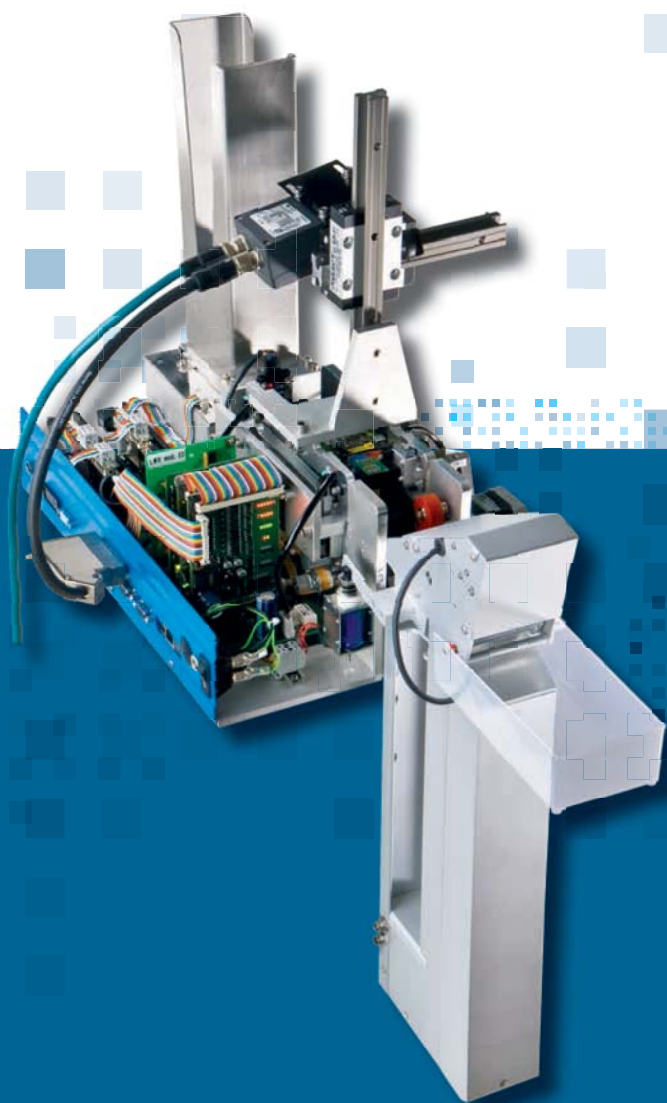**Universal Card Encoding with Scan and Print Functionality**

rinas

CS-LWR

RFID, MagStripe and Smart Cards
all personalized in one single unit

OEM
QUALITY ASSURANCE
PRODUCTION
DESKTOP
ACCESSORIES

RINAS LWR

RINAS CS-LWR – CARD PERSONALIZATION SYSTEM FOR UP TO 3,600 CARDS / HOUR

This encoder can personalize and read all three different types of ID-1 cards (MagStripe, RFID or Smart Card). Besides its unique and as yet unsurpassed encoding quality and engineering durability, the system is equipped with a scanner and has provision for a monochrome print attachment.

The CS-LWR is ideally suited to smaller personalization stations

This personalization system comprises tried and tested components (card separator and stacker) and is based around the well-accepted and widely-used LWR universal encoder. The robust construction of this unit is purposefully designed for round-the-clock operation in harsh environments where up to 3,600 cards can be separated per hour. The throughput is, however, very much dependent on the encoding, scan or print processes being used for the application.

Card encoding - MagStripe, RFID or Smart Card

The LWR has provision for an RFID antenna measuring 50 mm x 50 mm, which can be height adjusted between 5 mm and 15 mm. An optimum distance between RFID card and antenna is therefore easily accomplished. Individually sprung chip contact pins are lowered by a motor, thereby solving problems associated with prolonged contact times. Many contact forms are available, such as round, pointed, or wafer-shaped, for example. Customer electronics addresses these pins for chip read/write operations. All common HICO/LOCO standards, card types and materials are supported. Encoding is performed on all three tracks simultaneously and the encoded data are read back for comparison. Good/bad card sorting is a feature available to all cards being personalized.

Scan and printer extensions

The high-resolution print unit uses the same HP ink jet expertise in use by millions of office printers. The print head is capable of printing monochrome alphanumeric fonts, barcodes, 2D codes and Matrix Codes at resolutions up to 600 dpi on fat-free paper or plastic cards at a staggering 30 m/min. The scanner, which is typically used for data acquisition or print control, recognises all common typefaces, barcodes and even 2D and Matrix Codes.

Card Parameters

Card Dimensions (ID-1)	Card Thickness	Card Types
■ Length: 85.7 mm ■ Width: 54.0 mm	■ 0.6 mm to 1.1 mm ■ 0.25 mm to 0.6 mm	■ All colours ■ Transparent cards ■ Embossed cards

Encoding Parameters and Accessories

Magnetic Stripe	Encoding	Scanner	Print Module (Ink Jet)
■ LOCO: Up to 3 tracks ■ HICO: Up to 3 tracks ■ 300 Oe to 4,000 Oe	■ Free bit encoding ■ Customized	For data acquisition or print control	■ Monochrome print ■ Print width: 12.7 mm per head (up to 4 heads) ■ Print speed: ≤ 30 m/min
MagStripe Location ■ Bottom right	**RFID** ■ Mifare/Legic etc. (antenna dependent)	■ Barcodes (common) ■ Matrix Code (common) ■ OCR	■ Resolution: 300 x 600 dpi ■ Medium: Oil-free plastic or paper
Standards ■ ISO 7811, JIS, Visa Mini Card, AAMVA	**Chip** ■ Rinas contact unit (Customer electronics)		

Equipment Parameters

Throughput	Control	Capacities (0.76 mm)	Service Times
■ Up to 3,600 cph ■ HICO/LOCO: up to 2,900 cph	■ 1x RS232 ■ 5x Digital outputs ■ 6x Digital inputs	■ Separator: 250 cards ■ Stacker: 250 cards Other volumes available	■ Head replacement: < 15 min. ■ Transport wheel exchange: < 20 min.
Dimensions L/W/H (mm) ■ CS-LWR: 620/300/640	**Power** ■ +24V DC	**Weight** ■ CS-LWR: 12 kg	