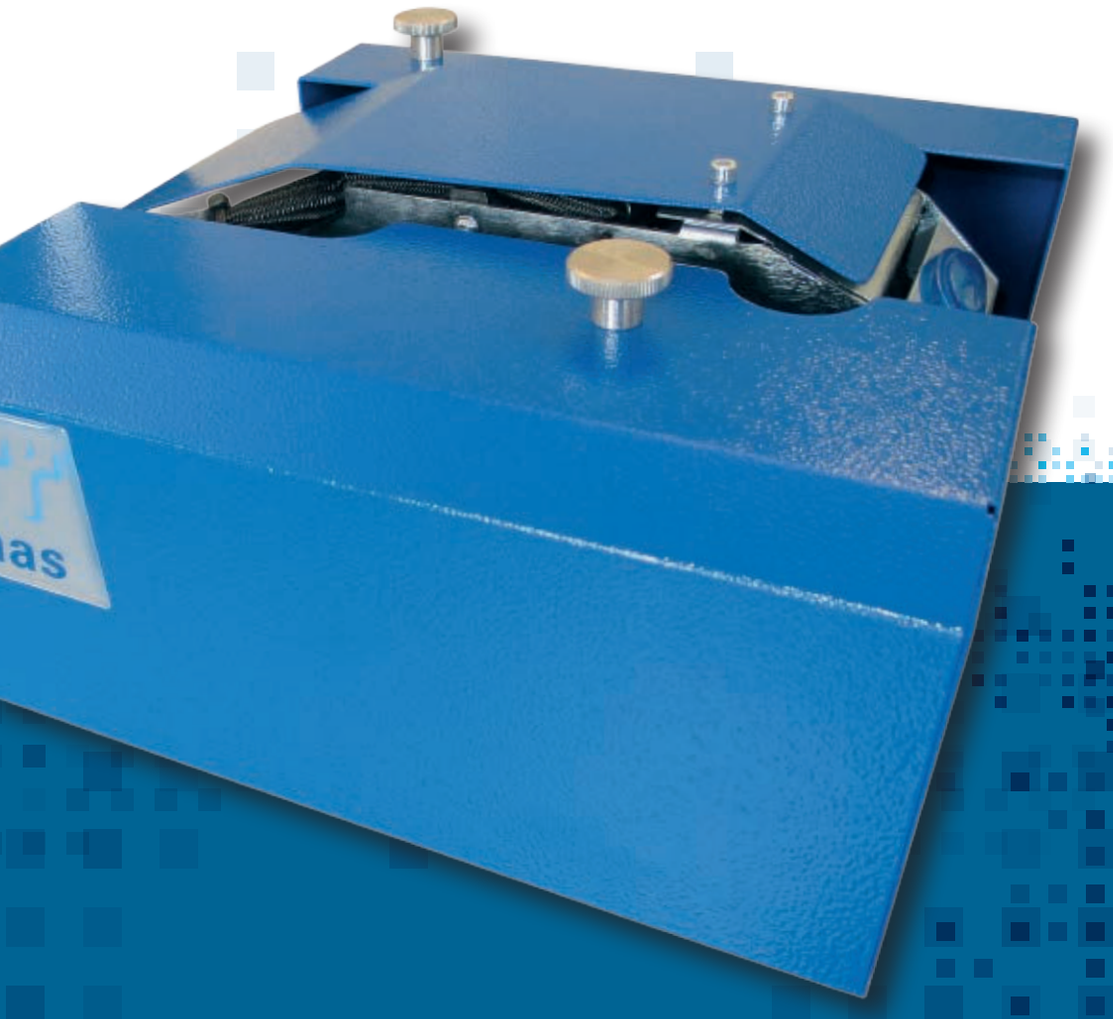
Fast Thermo-Transfer Printing on ID-1 Cards

rinas



TTD

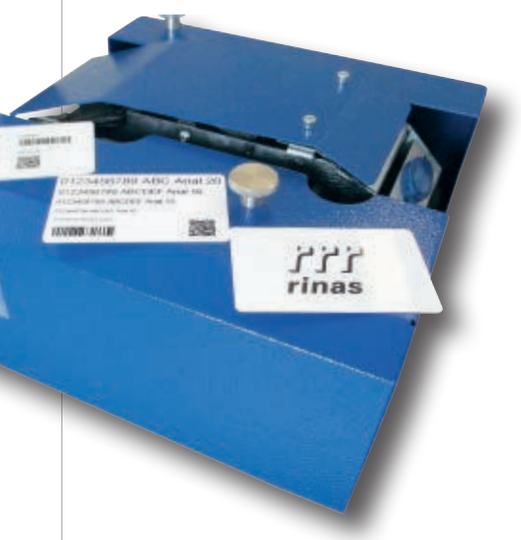
Monochrome Thermo-Transfer
Print Module

OEM
ANALYSIS / QA
PRODUCTION
DESKTOP
ACCESSORIES

RINAS TTD

RINAS TTD – HIGH-SPEED MONOCHROME THERMAL TRANSFER PRINT MODULE

This robust high-speed thermal transfer printer is a drop-in unit that has been purposefully designed for almost borderless monochrome printing of ID-1 sized cards and, as such, is the ideal extension to the Rinas CS-LWR universal encoder. Fabricated from mainly metal components ensures longevity and stability of operation under harsh operating conditions. The speed at which a card is printed is very much dependent on the print area (refer to example below.) In addition, when coupled with the Rinas FLO flipper unit[1.], the card can be reversed through the device, flipped and printed on its reverse side.



Device functionality for optimized print results

Included in the package are a range of functions that include a tape saving feature, numerous fonts, 1D and 2D codes, graphics integration and a label creation software utility. The printer has an easy-care cleaning roll and stands out with its print resolution of 300 dpi. Opening the cover gives access to the tapes, which are easily changed and a software adjustable thermal regulator provides adjustment for specific materials*. Currently, the printer is available for monochrome (black) printing but future developments should enable four colour printing.

Intelligent card personalization combined with printing

The printer is an ideal extension to the Rinas CS-LWR universal encoder. Due to its modular design, comprising various elements with their own intelligence (µC), specially adapted encoder configurations can easily be assembled to meet customer requirements. The majority of the individual modules share a common, internal communication bus and there is just one interface (USB) to the control PC. The printer communicates with the control PC via the TCP/IP port. The main advantage of these systems is the parallel processing occurring within the individual modules. For example, a card can be in the process of being encoded via the LWR unit (MagStripe, RFID or CHIP) while the previous, already encoded card, is being printed. This means that significant higher throughputs can be achieved than with competing products. A print verification station comprising a downstream scanner is also possible.

* We recommend printing on test samples beforehand to ensure compatibility and resilience to rubbing or fading.

Print Unit

Features
- Borderless printing (0.5 mm to card edge)
- Band length: 85 m
- Durable construction
- Economical

Print Characteristics
- 1D/2D codes
- Built-in fonts
- Graphical output
- Print resolution: 300 dpi
- Unicode character set

Card Parameters
- All colours
- Transparent cards
- Embossed cards (on request)
- Thickness: 0.65 mm to 0.9 mm
- PVC, ABS, PET

Operational Parameters

Throughput Volume
- ≤ 1,100 cph (80 mm)
- ≤ 1,600 cph (20 mm)

Service Parameters
- Printhead life: Approx. 400,000 cards[2.]

Power Supply
- 24V/2A

Control
- 1x TCP/IP interface

Weight
- Approx. 8 kg

Unit Dimensions (mm)
- L/W/H: 290/290/210

Ambient Conditions
- Temperature: 15°C to 30°C
- Humidity: 25% to 75% (non-condensing)

1.) Additional Rinas flipper unit necessary.

2.) Guideline value only, as this figure depends on many factors, such as length of print, quality of card surface and operational environment etc.

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