

## S5000L

### LASER DESKTOP PERSONALIZATION SYSTEM



### ENGRAVED RELIABILITY

Laser engraving is the most cost-effective technology available on the market and a leading edge solution for long lasting cards. Matica's S5000L is ideally suited for flexible mass issuance where quantity, speed & high quality count the most, combined with the advantage of low-cost, consumable-free operations.

Matica Laser Desktop Personalization System is dedicated for the issuance of a secure card in a decentralized industrial environment.

#### TARGET MARKETS

- Financial
- Retail
- Government
- Insurance



# S5000L

## LASER DESKTOP PERSONALIZATION SYSTEM

### INDUSTRIAL CARD ENGRAVING SYSTEM

Meeting the growing demand for top security laser engraving technology, Matica gives you a reliable solution, engineered to provide the highest security available on the market, preventing counterfeiting, fraud and forgery. Matica laser engraving system delivers everything you've come up to expect from a high quality product: excellent precision, performance and reliability.

### ENHANCED SECURITY

As a permanent, aesthetic and non-damaging solution used in document personalisation, laser engraving has enhanced significantly the level of card security. This professional process doesn't allow information to be mechanically or chemically removed without damaging the card's surface and body, thereby bringing an extremely effective tamper-resistant barrier. The Matica Laser Desktop permits the issuance of a secure card in a decentralized industrial environment. Providing additional security features such as user authentication and an integrated card counter it makes the issuance process almost impossible for any attempt of credential manipulation.

### RELIABILITY

Thank to the many advantages arising from its robust and industrial design held in a compact unit, it enables operation in a professional application environment. This compact machine incorporates most of the S7000 characteristics. Among many advantages users will avail of a continuous and precise power control with low power consumption, the air cooling system and a high quality laser beam. The S5000L simply stands out by its long term power & high thermal stability, as well as air-thermostable fan cooling system. Moreover the TEC thermo-electric cooled technology provides a constant temperature output. Laser source lifetime also means low maintenance overhead with an average lifetime of over 20.000 hours (MTBM).

### EXCELLENT PRECISION & PERFORMANCE

Matica Laser Engraving System benefits by the latest laser marking developments, exploiting long life DPSS technology, operating within the infrared spectrum (1064nm). High productivity per-hour and low TCO are guaranteed, while saving the operative cost of consumables. The S5000L solution is ideally recommended for a mass professional debit cards applications (using PVC laserable cards), secure corporate cards (marking barcodes or logos), or secure government ID polycarbonate cards where logos, alphanumeric characters and pictures are requested. Its full digital control loop allows to tune and to optimise many parameters to achieve high quality results. MaticardPro Software allows personalization of text, barcodes, and pictures in any combination, any position and in any dimension on the nearly entire card surface\*.

\* Less than 4% card surface is not available for personalization

## TECHNICAL SPECIFICATIONS

### Productivity

Speed: depending on card type and printed layout

### Card Handling

Input/output hopper capacity: 600 cards

Card format: ISO Std. CR80 - 0.50 - 0.80 mm

### Card Personalization

Resolution:

- up to 1200 dpi on laserable cards (ideal for debit card applications) and depending on job and speed desired.
- up to 2400 dpi on polycarbonate cards (ideal for ID card applications) and depending on job and speed desired.

Front & rear engraving: integrated open-view flip-over

### Options

Magnetic stripe encoding: HiCo/LoCo – std. tracks 1, 2 & 3 (ISO/IEC 7811)

Single Contact Encoding Station

Single Contactless Encoding Station

Air Vacuum

### Communication Interface

LAN Ethernet 10/100 Mbps (laser device connection)

USB (PC connection for SW application)

### Software

MaticardPro Windows-based software included

Diagnostic and setup software included

### Other Specifications

L x W x H: 70 x 55 x 70 cm

Weight: 57 kg

Cooling: actively stabilized by 'Thermo-Electric Cooling'

### Electrical Requirements

Power supply: 100 to 240 VAC (+/- 10%); 50/60 Hz (+/- 3 Hz)

Operating temperature: 15 - 35°C (46 - 95°F)

### Laser Specifications

Nominal power: 20 W

Wavelength: 1064 nm

Pulse repetition frequency: 0 - 100 kHz

Pulse stability (%): > 90 %

Beam quality factor M2: < 1,5

Lifetime MTBM: > 20.000 h

Beam expander: dynamic control of the fire spot

Power laser sensor: direct monitoring of diodes and optical power output

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