

persolver[®] II

***The answer for requirements in
centralized card personalization***



**Latest laser technology leads to unrivaled speed, small footprint
and modular expandability.**

A machine-design which sets benchmarks concerning flexibility, economy,
performance and reliability.

Card handling performs more than 5.000 cards/hour.

Low maintenance card transport.

**Table-top size, allows the *persolver[®] II* to work
in office as well as industrial environments.**

**laser personalisation
desktop equipment**

data sheet

nano|sec[®]

reliable • flexible • economical

The answer for requirements in centralized card personalization

Leading Edge Technology

persolver® II – a small, table-top, and low weight solution which delivers amazing results.

The **persolver® II** is a low weight, small footprint solution which combines high speed and reliability with the ability to reduce card inventory costs, minimize the cost-per-card, and protect cardholder data with a variety of advanced security features. This modular solution delivers a card handling up to 5.000 cards per hour (configuration and processes dependent) helping to provide efficiency, productivity and profitability to your card program.

System performance

The **persolver® II** offers amazing new technologies with an innovative machine design and production methods in the areas of mechanics, electronics and optics, that address customer critical business issues. The open, flexible and modular architecture provides a cost effective platform to meet new challenges as they emerge in a variety of markets.

- Card handling < 0, 7 sec
- Spring loaded card path to reference automatically according to ISO standard
- Automatic card thickness compensation, $0,3 > d < 1,1$ mm
- Encapsulated optical sensors outside card path to protect from dust
- Soft roller transport for scratch free and reliable card travel
- Proofed sucker based card picking technology
- No blind spot sensor configuration throughout the whole machine
- Multiple card hopper and stacker, up to 4, each with selective card handling
- Multiple chip modules to maintain through-put
- Multiple laser modules, up to four
- Low maintenance
- Meets demanding security requirements

Using the **persolver® II** in a personalization center guarantees that the production can be tailored for the necessary personalization requirements of various document types (drivers license, identity card, etc.).

Integrating the **persolver® II** in your IT infrastructure

The **persolver® II** has a built-in industrial PC (IPC) with the Windows XP® embedded operating system. The machine control software has been implemented on the IPC. The software contains DLL based interfaces allowing connection to multiple types of third party personalization software applications. The DLL interfaces are designed for rapid and low risk integration.

nano|sec®

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Optional features

- Lasers: 10W (up to 150 cph, Schengen compatible ID)
20W (up to 250 cph, Schengen compatible ID)
30W (up to 350 cph, Schengen compatible ID)
- CLI/MLI laser security feature, support by glass prism
- MM, Watermark security features
- OCR capabilities
- RFID chip personalization
- Contact chip (ISO & AFOR standard)
- Magnetic stripe (HiCo & LoCo)
- Quality check module
- Pass through / bad stack
- Multiple hopper & stacker
- User authentication via smart card
- Card cleaning module (preliminary)

Technical data

- Electric supply: 100V-240V @50Hz-60Hz max. 11A, < 1,5 kW config. depend.
- Operating conditions: 22°C +/- 5°C
- Humidity: 60%-85% relative humidity, not condensing

Production lights

- Dimensions:
- width: depends on configuration, 120 mm module spacing max. 454 mm
- height: 410 mm
- depth: 410 mm
- Weight: Controller: 22 Kg, per Module: 3-7 kg

Laser:

- Pumped fiber laser, 10W, 20W or 30W cw
- Economic life-time >20.000h
- Class 1 laser product
- Forced air-cooled

Removable magazines:

- Card input & output: Up to 250 cards, ISO 7816-1, each
- Reject: stacker pass through

Monitoring:

- One plug Ethernet connect
- Integrated industrial PC
- Optional touch screen

Additional compliances:

- ISO/IEC 7816 (all parts and amendments)
- RoHS
- ISO 9001:2008
- CE

