

SMART EVOL 1000

A fully modular card personalization system

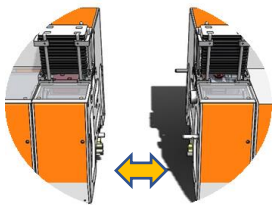
Designed to target multiple markets including Financial, ID, Transport, Loyalty, Telecom and others, the Smart Evol 1000 is a mid-range card personalization system that perfectly fits between Central Issuance and Desktop systems

Performance and productivity

Designed to run 24 hours/day, this very robust equipment can reach 1,000 cards/hour, depending on chip encoding time and printing time. It also integrates very powerful chip encoders allowing reducing the chip encoding time and therefore allowing keeping a high machine throughput.

Full modularity

Its unique modular architecture on the market allows to quickly add or remove modules to respond to new project requirements.



Adding a module only takes few minutes, thanks to an efficient cableness plug & play concept.

Easy maintenance

The full modularity of the equipment facilitates its maintenance as any module that needs an intervention can be easily shipped to STS and immediately replaced by another one.

Large choice of laser solutions



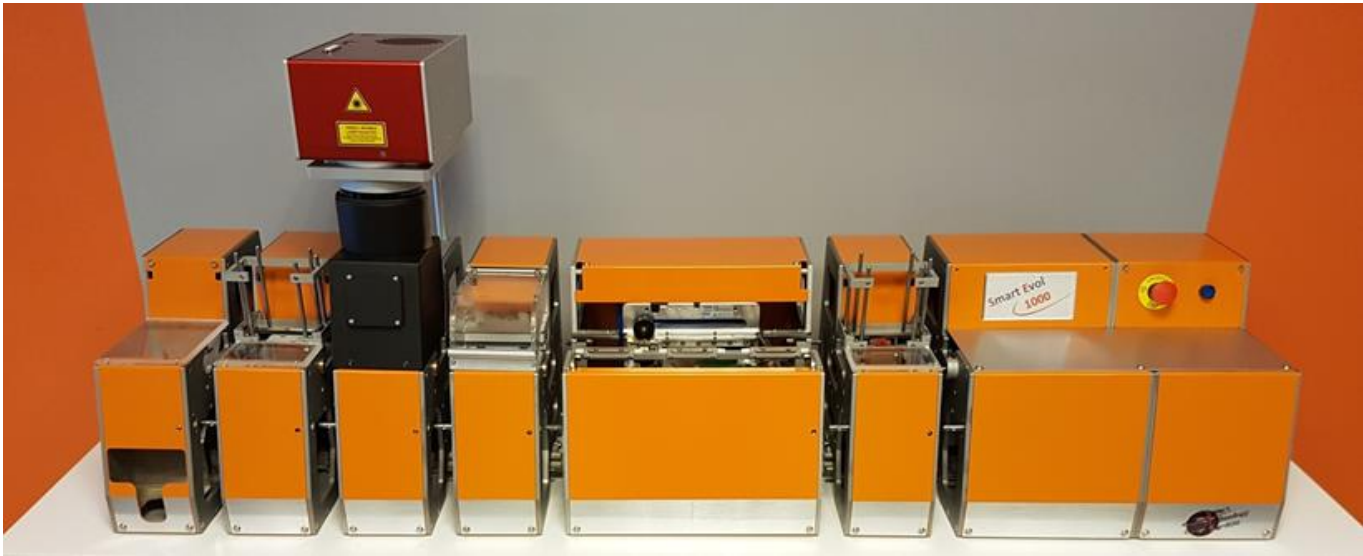
This very compact module allows engraving text, photos, bar codes and other images on the card surface using laser technology. Various laser powers, brands and technologies (fiber, CO2, UV ...) are supported, allowing printing on various card material including PVC, ABS, polycarbonate, PET, and metal.

Able to personalize metal cards

The input module, as well as all other personalization modules, are able to personalize metal cards (steel, tungsten, aluminium, and other materials). The system supports the extra weight of the cards, including at the input and output modules. It can handle very rigid cards. The Smart Evol 1000 laser module provides excellent results when printing on metal cards.

Easy customization by STS

The open architecture of the Smart Evol 1000 allows to quickly integrate specific requirements, such as the use of specific lasers, specific couplers, specific vision control. Any request for a customization will be first studied by STS.



The full modularity of the Smart Evol 1000 facilitates on site upgrades to support new requirements. It also facilitates the maintenance.

SMART EVOL 1000 MODULES

- **Command** module
- **Input** module, storing up to 250 cards
- **Magnetic stripe**, Track ISO 1, 2 & 3, write/verify
- **Chip encoding**
 - Contact, contactless, dual interface
 - Single chip or multiple chips
 - Micropross, Smartware or other couplers
- **Laser printing**
 - MPIX fiber laser 3 watts, 10 watts, 20 watts
 - Can print text, barcodes, photos and other images
 - Can print on both sides
 - Foba and Rofin lasers also available, up to 50 watts
 - CO₂ and UV laser on request
- **Vision inspection**
- **Resonance frequency measurement & test**
- **Card antenna deflection detection**
- **SIM card punching** module, for SIM cards
- **Output** module, storing up to 250 cards
- **Card reject** module

The Smart Evol 1000 includes a basic software allowing defining the production set ups, managing different kind of batches, recording production statistics, and testing the system. Proprietary chip encoding applications can be developed using a SDK.

The Smart Evol 1000 easily stands on a table



Above configuration allows printing on both card sides using laser



The vision inspection module includes a Keyence vision sensor that can manage OCR/OCV for readability of text, numbers, logos verification, bar code verification (1D, 2D like QR code), magnetic stripe detection, chip detection, etc.

It can also be used for read/look-up capabilities in a view to get a particular information from the card.

About Smart Technology Services - STS

Smart Technology Services provides high level support services and card production & personalization solutions to card manufacturers and bureaus. The company provides service support activities for card central issuance systems, and second hand systems. It also supplies the **SE30** & **SE1000** – desktop card personalization systems, and the **SI20** and **SI700** – versatile card production systems.

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