



# CORE



## THE LASER PERSONALIZATION SYSTEM FOR ULTRA SECURE CARDS

Core (COlor secuRE) is a system which allows you to personalize ID cards in the format of an ID-1 card while ensuring a maximum level of security.

Born from the partnership of Evolis and the Ixla company, the Core solution combines color dye sublimation printing, data encoding, laser engraving, and lamination.

### MULTI-PURPOSE FOR AN INCREASED PRODUCTIVITY

Core is a unique system for the instant production of secure cards, as it is capable of performing up to four operations in just one single step:

- Single or double-sided color dye sublimation printing,
- Data encoding on magnetic stripes, contact and/or contactless smart cards (these technologies can be combined with each other),
- Laser engraving of text, images, and security features, either single or double-sided,
- Single or double-sided lamination, with or without holograms.

These four operations can be performed in one single step and, as they work in parallel with different modules, Core offers peerless performance and productivity.

### MAXIMUM SECURITY

- With Core, you can add personalized high security features to your cards: ghost images, microtexts, CLI (Changeable Laser Image), tactile effects, and LPI® (Laser Protected Image). These different processes prevent all attempts to falsify the cards.
- Core guarantees a secure production of the cards: locking system to secure access to the laser and laminate, and a space for a Kensington® security lock.



## MAIN FEATURES / Full technical specifications on [www.evolis.com](http://www.evolis.com)

### GENERAL FEATURES

- Color printing module, laser engraving module, and laminating station
- Printing module:
  - Direct-to-card dye-sublimation/Resin thermal transfer
  - Edge-to-edge printing
  - Single or double-sided printing
  - 300 dpi print head (11.8 dots/mm)
  - 16 million colors
  - 16 MB memory (RAM)
- Laser engraving module:
  - Diode Pumped Solid State Laser (DPSSL) source, 6 watts
  - Vector and raster graphics
  - Dual-sided laser engraving
  - Laser marking resolution: 600 dpi
  - Single board computer driven by Windows Embedded System (WES)
- Lamination module:
  - Heat transfer
  - Varnish or patch
  - Double-sided lamination
  - Flow: 2 mm/s to 18 mm/s
  - Temperature: 100 °C to 180 °C

### SPEED OF CUSTOMIZATION

- Up to 70 single sided cards printed per hour with color printing, laser engraving and lamination

### OPTIONS FOR LASER ENGRAVING

- CLI (Changeable Laser Image)
- XY Positioning camera
- OCR (Optical Character Recognition)

### INTERFACES

- LAN Ethernet

### CARD MANAGEMENT AND SPECIFICATIONS

- Feeder capacity: 100 cards (0.76 mm – 30 mil)
- Output hopper capacity: 100 cards (0.76 mm – 30 mil)
- Reject tray capacity: 30 cards (0.76 mm – 30 mil)
- Card thickness: 0.50 to 1 mm (20 to 40 mil), automatic gauge
- Card types: Polycarbonate (PC) cards, PET cards, PVC cards, ABS cards, ABS cards.
- Card format: ISO CR80 – ISO 7810 (53.98 mm x 85.60 mm)

### ADDITIONAL ENCODING MODULES

- Available modules:
  - ISO 7811 HiCo/LoCo, JIS2 magnetic stripe encoder
  - Smartcard contact station ISO 7816-2
  - Contact smartcard encoder – PC/SC, EMV 2000-1
  - Contactless smartcard encoder – ISO 14443A, B, ISO15693, MIFARE, MIFARE+, DESFire, HID iCLASS
  - Other specific encoders upon request
- Options can be combined
- Factory-installed

### SAFETY

- Data encryption for magnetic encoding
- Locking system to access the laser and elements of lamination
- Support for Kensington® security lock

### DISPLAY

- Graphic printer status notifications using LEDs: feeder empty, cleaning alerts, end of ribbon alert, ribbon due to end, etc.

### EVOLIS HIGH TRUST® RIBBONS

To maximize the quality and durability of printed cards, the lifespan of the print head and the overall printer reliability, use Evolis High Trust® ribbons.

- Delivered in a drop-in cassette for easy handling
  - Easy-to-load cassette for laminating films
- List of ribbons and laminating films available on [www.evolis.com](http://www.evolis.com)

### SOFTWARE

- Software suite including all the tools for users and developers

### CERTIFICATION AND DECLARATION OF CONFORMITY

- CE
- RoHS
- Class 1 laser product (EN 60825)

### SIZE AND WEIGHT

- Size: 480 x 280 x 940 mm (7.68" x 8.07" x 12.36")
- Weight: 38.5 kg (84.87 lbs)

### WARRANTY

- 1-year warranty (printer, print head, laser, heater), limited to 100,000 insertions<sup>1</sup>
- Warranty extension available as an option

<sup>1</sup> Warranty subject to observance of specific conditions and use of Evolis High Trust® ribbons. An insertion is equivalent to printing a card on one side, or encoding it.

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