QUANTUM



The **Quantum** printer is the solution for printing and encoding cards in large volumes. It personalizes the cards front and back, in color or monochrome, with a printing speed of more than 1000 cards per hour.

Quantum combines the feel of a desktop printer with the power of an industrial printer for centralized production of plastic cards in large quantities.

THE CENTRALIZED CARD PRODUCTION SYSTEM

Quantum is ideal for delivering large volumes of:

- ID badges
- Loyalty cards
- Transit passes
- Event badges
- Student cards
- Payment cards
- Phone cards

QUANTUM IS ALSO AVAILABLE IN A SECURE VERSION

Quantum has an optional **central locking** feature to protect access to consumables (cards and ribbon) and to the encoding module, to make your card issuance system safe and secure.



INCREASED PRODUCTIVITY

Thanks to its feed tray and stacker with a capacity of 500 cards each, the Quantum printer can **deliver more than 1000 cards per hour in monochrome and more than 150 cards in color**. With the reversible encoding module that is independent from the print module, **the cards are encoded and printed in a single pass**.

MULTIPLE ENCODING

The printer **comes standard with a removable encoding module** for **combined encoding** of magnetic stripes, contact smart cards and contactless cards. Quantum can be **customized** on-site to meet your specific needs as they evolve.

EASE OF USE

Quantum was designed to **simplify and speed up** every day operation and maintenance:

- Load and retrieve the cards without removing the storage trays (on unlocked version)
- Check the card level at a glance
- LCD display showing printer status and consumable levels.

ECONOMIC SOLUTION

Quantum can handle large volumes of cards with very high print quality, providing a **very economical alternative** to industrial card printers. You can produce your cards **yourself** instead of having to go to an outside provider.

LASTING INVESTMENT

Quantum's components, including its **metal frame**, were selected to ensure durability and reliability over time. The sealed cover as well as the cleaning process effectively protect against dust and dirt.

Thanks to Quantum's top quality design, you can be sure that your **investment will last**.

PEACE OF MIND GUARANTEED

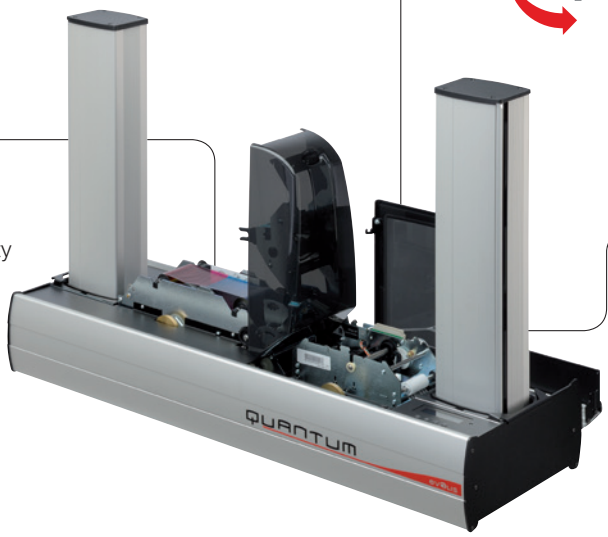
With our standard warranty covering **500,000 insertions** the first year and our optional warranty extensions, you don't have to worry about a thing.

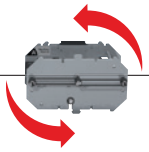
evolis
card printers

QUANTUM



- USB connectivity
- Ethernet TCP/IP connectivity





- Reversible upper and lower encoding unit for magnetic stripes and contact smart cards
- Connecting panel & mounting area for users own integration of encoding units

- Interchangeable input & output hoppers (500 cards each)



GENERAL FEATURES

- 2 configurations:
  - Standard version without locking mechanism
  - Version with centralized locking system
- Single-sided and dual-sided printing module
- Edge-to-edge printing
- Color dye sublimation, monochrome thermal transfer
- 300 dpi print head (11.8 dots/mm)
- 16 MB memory (RAM) allowing two card storages (front & back)
- Interchangeable input and output hoppers, capacity of 500 cards each (0.76 mm - 30 mil)
- Aluminum body, black plastic covers

PRINTING PERFORMANCES

- Single side:
  - Color (YMCKO): 150 cards/hour
  - Monochrome: 1000 cards/hour
- Dual side:
  - Color (YMCKO-K): 115 cards/hour
  - Monochrome: 320 cards/hour

OPTIONAL FEATURES

- Locking system to secure access to the whole system (incl. cards and ribbon)
- Quantum Production Pack: 1 detachable card hopper with short door, 2 cleaning rollers, 1 cleaning kit
- Quantum Backup Pack: 1 print head, 1 reversible encoding module, 1 detachable card hopper with short door
- Detachable hopper (long or short doors) with a capacity of 500 cards (0.76 mm - 30 mil)

INTERFACES

- USB (1.0, 1.1, 2.0, 3.0)
- Ethernet TCP-IP 10BaseT, 100BaseT (Traffic Led)

SAFETY

- Centralized locking system (optional)

DISPLAY

- 2-line LCD display
- Status LED for printer and encoding unit monitoring

1 Under specific conditions

2 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.

ADDITIONAL ENCODING MODULES

- Reversible upper and lower encoding unit for magnetic stripes and contact smart cards (patented)
- HiCo/LoCo magnetic stripe encoder ISO 7811 or JIS2
- Smart contact station – ISO 7816-2
- Connecting panel and mounting area for users own integration of encoding units
- Encoding options:
  - Smart encoding unit – PC/SC, EMV 2000-1
  - Contactless encoding unit - ISO14443A & B, Mifare, DesFire, HID iCLASS
  - Other types upon request

CARD MANAGEMENT AND SPECIFICATIONS

- Detachable and interchangeable card input feeder and output stack with 500 cards capacity (0.76 mm - 30 mil)
- Reject hopper for defective cards with a capacity of 20 cards (0,76mm - 30mil)
- Card types:
  - PVC cards
  - Composite PVC cards
  - PET cards
  - ABS cards[1]
  - Special varnished cards[1]
- Card format: ISO CR80 - ISO 7810 (53.98 mm x 85.60 mm)
- Thickness: 0.76mm to 1mm (30 to 40 mil)

EVOLIS HIGH TRUST® RIBBONS

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

- Ribbon capacity:

  Color ribbons:
  - YMCKO: 500 prints/roll
  - YMCKO-K: 500 prints/roll
  - ½ YMCKO: 400 prints/roll

  Monochrome ribbons:
  - KO: 500 prints/roll
  - Black: 3000 prints/roll
  - BlackFLEX (for ABS & special varnished cards): 1000 cards/roll
  - Red, green, blue, white, gold, silver, scratch-off, signature panel: 1000 cards/roll
  - Hologram varnish: 350 prints/roll
- Ribbon saver for monochrome printing

SOFTWARE

- Delivered with cardPresso XXS for designing and editing badges:
  - Internal database (unlimited records)
  - Signature acquisition (compatible with Evolis Sig100 and Sig200 signature pads)
  - Operating systems:
    - Windows®: XP SP3 32/64, Vista 32/64, W7 32/64, W8 32/64
    - Mac OS X (Intel® processor)

OPERATING SYSTEMS

- Windows®: XP SP3, Vista 32/64, 7 32/64, 8 32/64
- Mac OS X v10.4 and higher (upon request)
- Linux (upon request)

CERTIFICATIONS AND STATEMENT OF COMPLIANCE

- RoHS

POWER

- Power supply: 100-240 Volts AC, 50-60 Hz, 2 A
- Printer: 24 Volts DC, 6.25 A

OPERATING ENVIRONMENT

- Min/max operating temperature: 15° / 30° C (59° / 86° F)
- Humidity: 20% to 65% non-condensing
- Min/max storage temperature: -5° / +70° C (23° / 158° F)
- Storage humidity: 20% to 70% non-condensing
- Operating ventilation: open air

SOUND (EVALUATED ACCORDING TO THE ISO 7779 STANDARD)

Sound pressure in assistant positions LpAm (color mode YMCKO)

- When operating: 50 dB (A)
- In sleep mode: background noise level

PACKAGING CONTENT

- Printer
- CD-ROM with printer driver, user manuals
- Cleaning kit
- USB cable
- Power supply and cord

SIZE AND WEIGHT

- Size (H x W x D):
  - Without hoppers: 215 x 300 x 850 mm (8.46" x 11.81" x 33.46")
  - With hoppers: 567 x 300 x 850 mm (22.32" x 11.81" x 33.46")
- Weight: 21.7 kg / 47.8 lbs (18.3 kg / 40.3 lbs without hoppers)

WARRANTY

- 1-year warranty (printer and print head) limited to 500,000 insertions[2]
- Warranty extension available as an option

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KYOCERA Printhead

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