

# QUANTUM



**Quantum** is a powerful system to print and encode plastic cards in volume!

**Quantum** prints cards in dual-sided mode, in color or monochrome, and delivers more than 1,000 personalized cards per hour.

This optimized throughput leverages two detachable and interchangeable hoppers with a large capacity of 500 cards each.

**Quantum** offers a centralized personalization process that matches the flexibility of a desktop printer with the power of an industrial machine.

## BRING VERSATILITY TO YOUR CENTRALIZED CARD PRODUCTION!

**Quantum is the ideal system for any organization that needs to personalize cards in large quantities**, from card manufacturers to service bureaus or even banks and universities. It provides the flexibility to meet any customer requirement at any time: identification cards, loyalty cards, transport passes, event passes, student IDs, payment cards, calling cards.

### VERSATILE AND MODULAR

Quantum stands out on the market by its innovative design. The system is modular and can be customized on-site by its user according to the specific and evolving needs of the client.

### PRODUCTIVE

With Quantum, performance is the key word! The machine has different modules to speed up the personalization process and manage the printing and encoding processes at the same time. It stands as an affordable alternative to industrial machines. Quantum provides stunning printing performances: more than 1,000 cards per hour in monochrome and more than 150 cards per hour in color.

### RELIABLE

Quantum is all about reliability. All components have been engineered to support high-volume batches, while a new cleaning process and an airtight cover protect the system against dust.

### CONVENIENCE AND EASE OF USE

Quantum is fully user-oriented. All core mechanical and electronic concepts have been designed to ease and speed up daily use and maintenance tasks.



### ADVANCED MULTIFEATURE ENCODING

**Quantum** comes with a detachable and reversible encoding unit that can combine magnetic, smart contact and contactless encoders. With this feature, a card can be printed and encoded on the same side, without having to be flipped over. This speeds up the personalization.

The separate encoding unit can be upgraded on-site with almost any smart chip encoder that simply needs to be connected to a dedicated electronic panel.

# QUANTUM

## REVERSIBLE ENCODING UNIT (PATENTED)

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



## EASY TO USE

- Load or withdraw cards without detaching the feeders from the printer\*
- Easy handling of the feeders thanks to an unlock actuator (made of metal)
- Interchangeable input & output hoppers

(\*for non-lockable version)



## QUALITY DESIGN

- A metal structure to ensure reliability over time
- Different printing and encoding units for a greater productivity
- Centralized locking system in option

### GENERAL FEATURES

- Two configurations of Quantum: standard without locking mechanism and one with centralized locking system
- Dual-sided color printing module, 300 dpi print head (11.8 dots/mm)
- USB & Ethernet TCP-IP (USB Cable supplied)
- 16 MB RAM allowing two card storages (front & back)
- Interchangeable input & output hoppers, capacity of 500 cards (0.76 mm - 30 mil)
- 2-line LCD display and status LED for printer and encoding unit monitoring
- Locking system in option to secure access to the whole system (incl. cards & ribbons)
- RoHS compliant
- Aluminum body, black plastic covers

### PRINT MODE

- Color dye sublimation and monochrome thermal transfer
- Enhanced color management system for top quality pictures
- Edge-to-edge, dual-sided printing
- Integrated ribbon saver for monochrome printing, integrated ½ Panel YMCKO picture management

### ENCODING MODULE

- 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 & 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

### PRINTING SPEED

- Color 1 side (YMCKO): 150 cards/hour
- Color 2 sides (YMCKO-K): 115 cards/hour
- Monochrome 1 side full card: 1000 cards/hour
- Monochrome 2 sides full card: 320 cards/hour

### RIBBONS EVOLIS HIGH TRUST

- Color ribbons:
  - 5-panel YMCKO color ribbon - 500 cards/roll
  - 6-panel YMCKO-K color ribbon - 500 cards/roll
  - Half-panel YMCKO color ribbon - 400 cards/roll
- Monochrome ribbons:
  - 2-panel KO black monochrome ribbon - 500 cards/roll
  - Black monochrome ribbons - up to 3000 cards/roll
  - BlackWAX (for ABS & special varnished cards) - up to 3000 cards/roll
  - Red, green, blue, white, gold, silver, scratch-off, signature panel: up to 1000 cards/roll
  - Continuous varnish hologram - 350 cards/roll

### OPTIONS & ACCESSORIES

- 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)

### CARDS MANAGEMENT AND FEATURES

- Detachable and interchangeable card input feeder and output stack with 500 cards capacity (0.76 mm - 30 mil)
- Reject hopper with a capacity of 20 cards (0.76mm - 30mil)
- Card format: ISO CR-80 – ISO 7810 (53.98 mm x 85.60 mm – 3.375 x 2.125)
- All PVC, Composite PVC cards, PET, ABS<sup>(1)</sup> and special varnished cards<sup>(1)</sup>
- Thickness: 0.76mm to 1 mm (30 to 40 mil)

### RESIDENT FONTS

- Arial 100, Arial bold 100
- Barcode - Code 39, 2/5 interleaved, Code 128, EAN13

### SOFTWARE

- Supplied with eMedia Card Designer Software for designing and editing badges:
  - Compatible with Windows™ 7, XP and Vista (32 & 64 bits)
  - Connection to Microsoft™ Excel databases

### SUPPORTED PLATFORMS

- Windows™ 7, XP and Vista (32 & 64 bits)
- Macintosh™ OS X v10.4 and higher (upon request)
- Linux (upon request)

### FORM FACTOR AND WEIGHT

- Form Factor:
  - Without hoppers : 215 mm (8.46") (H) x 850 mm (33.46") (L) x 300 mm (11.81") (W)
  - With hoppers : 567 mm (22.32") (H) x 850 mm (33.46") (L) x 300 mm (11.81") (W)
- Weight: 21,7 kg / 47,8 lbs (18,3 kg / 40,3 lbs without hoppers)

### POWER SUPPLY

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

### ENVIRONMENTAL CONDITIONS

- 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: free air

### WARRANTY

- 1-year warranty (printer and print head), limited to 500 000 passes<sup>(2)</sup>

1 Under specific conditions / 2 Warranty Subject to observance of specific conditions and use of Evolis High Trust \* consumables

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