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Banking Card DOD Personalization Machine

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Flexible configuration meet various requirements by fast and on-time delivery. High quality and efficiency with Piotec industrial-grade contact and contactless IC readers.

Overview

FPL6061 is a new generation of banking card personalization machine based on PIOTEC FPL (Flexible Perso Line) platform, which uses DOD Inkjet printing as the surface information personalization processing.

Thanks to the modular design of FPL platform, FPL6061 banking card DOD personalization machine can modify the specific configurations of various functional modules or add/remove some modules according to requirements under the standard configuration of OCR, magnetic encoding, contact IC, contactless IC, DOD inkjet, optical visual verification and contact & contactless IC verification. For example,increasing or decreasing the quantity of contact & contactless IC encoding heads, DOD printing head, or add/remove one or more embossing unit, thermal printing unit or other functional modules, which can meet various requirements by fast and on-time delivery.

FPL6061 can meet the new generation of banking card's various requirements for surface personalization , and can eliminate the deformation of the card body and the damage to the inlay caused by the traditional embossing processing. By ensuring strong enough adhesive force of DOD printed information, Information like photo in color on all kinds of smart cards is available.

Advantages

Flexible Configuration:

Thanks to the modular design of FPL platform, FPL6061 can modify the specific configurations of various functional modules or add/remove some modules according to requirements, which can meet various requirements by fast and on-time delivery.
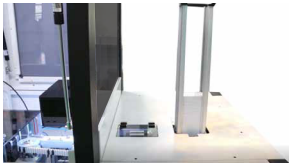
Proven Technology:

The adopted technologies such as IC perso, DOD inkjet printing , Optical Visual Systemy and personalization data management system has been verified by the market for more than 10 years, which is efficient and stable.

High Quality and Efficiency:

Piotec industrial-grade contact and contactless IC readers are combined with a stable perso mechanism to make strong chip compatibility and stability. The resolution of DOD inkjet system is up to 1200dpi, and the throughput of the whole machine can reach 6000pcs / hour.
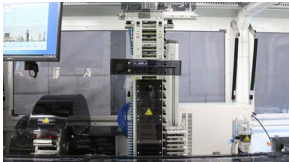
Standard Configuration
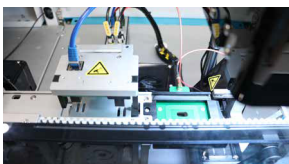
Input Module

Magnetic Strip Encoding Module

Contact IC Perso Module

Contactless IC Perso Module

DOD Inkjet Module

Verification Module

Output Module

▸ **Input Module:**

1. 2 removable input Magazines are configured, Max. Capacity for each:500 pieces
2. Configure Card Inclination Detection and Double Cards Detection.
3. A OCR unit which is used to recognize card surface infomation to search the matched IC encoding data in database is optional.

▸ **Magnetic Strip Encoding Module:**

Professional RINAS magnetic machine, Max. Speed is up to 6000CPH.

▸ **Contact IC Perso Module:**

1. The standard configuration includes 16 contact IC encoding stations with PIOTEC reader,and can be extended up to 32 stations.
2. ISO 7816 and other various standard protocols can be supported.

▸ **Contactless IC Perso Module:**

1. The standard configuration includes 16 contactless IC encoding stations with PIOTEC reader,and can be extended up to 32 stations.
2. It can be applicable to ISO 14443A/B、MIFARE、ISO/IEC 15693、Felica and other various standard protocols.

▸ **DOD Inkjet Module:**

1. Single DOD module, configure 1 plasma unit that energy and distance can be modified by software, 1 DOD inkjet unit and 1 UV curing unit.
2. The standard configuration support monochrome inkjet, and YMCK color printing is optional. The resolution is 1200DPI.
3. Dual side printing is supported: single side printing speed is 6000UPH, and dual side printing speed is 3000UPH.
4. The second DOD printing module is optional,which improves dual side printing speed up to 6000UPH.

▸ **Verification Module:**

1 OCR verification unit, 1 Contact verification unit and 1 Contactless verification unit are included..

▸ **Output Module:**

1 horizonal Output Magazine is configured, Max. Capacity:1000 pieces.

Optional Configuration

▶ **Thermal Printing Module：**

1.The standard configuration includes 2 thermal printing units, cand can be extended up to 4 units.

2.Support monochrome printing, the resolution is 300DPI.

3.Available Picture Format: BMP .GIF .TIFF .PGN.

▶ **Embossing and Indent Module：**

1.Standard Configuration is 3 sets of Embossers, and can be extended up to 6 sets.

2.Max Capacity is 120 characters.

3.Support embossing printing and indent printing.

▶ **Tipping Module：**

1.Golden and silver tipping are available;

2.Ribbon facture detection is configured;

3.Ribbon balance detection is configured.

▶ **Laser Engraving Module：**

1.Configure 1 Piotec 20Watts of fiber laser.

2.Configure 1 fume extractor.

3.The character(micro text included),barcode,QR code,MRZ(Machine Readable Zone) code,tactile and high-quality grey photo-graph can be engraved on card dual sides, the Max.resolution is up to 1600DPI.

Throughout Table

Contact IC Perso Throughout (16 Stations+Dual DOD)

Perso Time(s)	<9.4	12	15	18	21	24
Throughout(UPH)	6000	4700	3850	3100	2650	2300

Contactless IC Perso Throughout (16 Stations+Dual DOD)

Perso Time(s)	<9.4	12	15	18	21	24
Throughout(UPH)	6000	4700	3850	3100	2650	2300

Technical Specification

Name	Parameters
Dimension	6200mm×900mm×1750mm (Single DOD)
	8500mm×900mm×1750mm (Dual DOD)
Weight	950Kg
Power Supply	220V(-5%～+10%), 50Hz, 10KW
Noise	≤65dB
Operation Temperature	23℃±3℃
Operation Humidity	50±10%rh
Compressed Air	Pressure：0.5Mpa Flow：200L/M

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