



ICPS
Intelligent Card
Production Systems

ABOUT **US**

Intelligent Card Production Systems Ltd (ICPS) is the manufacturing arm of Margins ID Group- a leading provider of secure integrated ID solutions in Ghana and beyond. As the largest secure card and document manufacturer in Sub-Saharan Africa, the company has over 200 skilled employees and a high security facility spread over 5000 meters².

ICPS is ISO 9001-2015 certified and a member of the International Card Manufacturers Association (ICMA)

Incorporated in 2004, ICPS serves the identification, secure documents and cards needs of major financial, government and corporate bodies. ICPS is purposely built to offer a full range of products and services, developed and manufactured in a high- security environment with In-house Design & Origination, Printing and Finishing.

The facility has the capacity to manufacture over 100 million secure cards and documents a year and is on course for Europay-MasterCard-Visa (EMV), SAS (GSM) and Intergraph certifications. The company also builds large-scale digital infrastructure from concept and design, to deployment and management.

The company's reputation for quality and service is built on a culture of customer service and quality assurance, through the establishment and maintenance of global relationships and standards.

ICPS is committed to connecting identities and solutions over physical and virtual platforms and providing unrivalled products to meet the ever-changing needs of its global client base.



PRODUCTS

CARDS

Plain Cards
Pre-printed Cards
Contact Cards
Contactless Cards
Dual Interface Cards
Access Cards
Hybrid Smart Cards

LABELS

Self Adhesive Labels
Non - Adhesive Labels

SECURE DOCUMENTS

Waterproof **E- Certificates**
Waterproof Transcripts

SERVICES

CARD PERSONALISATION SERVICE

Indenting & Embossing
Magstripe Encoding
Chip Encoding
Thermal Printing
Fulfillment
Pin Mailing

PRINTING PLATES

CTP Offset Plates
Flexographic Printing Plates
Silkscreen Films



BUREAU & **PERSONALISATION**

Our in-house service bureau and fulfillment center is equipped with the most advanced card personalisation and packaging technologies available today.

Personalisation solutions include:

- Magstripe Encoding
- Indenting & Embossing
- Secure Lamination
- Two sided Thermal Printing (including a full range of barcodes)
- Scratch off panels for PIN/Serial Numbers
- Holographic Images
- Colorgraphic Images
- Demographic (monochrome) Images

We continuously invest in the latest technologies available, in order to maximize efficiency and transfer those benefits to our clients.



MAGNETIC STRIPE ENCODING

Magnetic stripes are a popular form of encoding data on cards which has been utilized for many years. Magnetic Stripe cards work by storing data as a pattern of positive and negative magnetic stripe fields. When the card is read, that pattern is decoded, and the information translated into a usable format.

We provide this service for a multitude of institutions that use them for;

- Driver's Licenses
- ATM Cards
- Loyalty Cards
- Identification cards
- Access Control Cards





CARD PERSONALISATION

Cards personalisation is the process of placing user details including pictures, logos etc on plastic cards. We offer our clients the following personalisation services:

- Colorgraphic images
- Demographic (monochrome) images
- Embossing
- Indenting
- Holographic Images
- Scratch off panels
- Fulfilment services



SMARTCARD PERSONALISATION

Smart card personalisation is the process of writing or storing secured data onto a chip embedded in a card. We give our clients the option of choosing a contact, contactless or dual interface card that can be used for both contact and contactless transactions. We provide this service for a multitude of institutions that use them for:

- Financial Cards
- Loyalty Cards
- Identification Cards
- Access Control Cards
- Utility payments
- Transportation
- Health Care





FULFILLMENT

Fulfillment service involves the stacking of personalised cards and/printed information into envelopes ready to be dispatched to specified recipients. Our secure mailing, fulfillment technology and services are able to personalise names, numbers and/or addresses on a multitude of varying card types to the complete satisfaction of our customers.

Customers can utilise our fulfillment services for card personalisation solutions which demand that the cards be mailed individually to customers, or identified clearly for distribution.





PIN PRODUCTION

Pins consist of 4-12 digit numbers commonly assigned to bank customers for use with automatic cash dispensers or as a means of authenticating the cardholder. We are able to produce pins to suit any requirements, including the following:

- ATM Cards
- Loyalty Cards
- Identification cards
- Access Control Cards
- Fuel cards
- Scratch cards

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CARDBODY

Cardbody manufacturing is the process by which a physical card is made. Depending on the technologies used and the features of the card, this may go through several different methods of production. The standard material used in production is PVC.

We have set up an in-house ISO certified Quality Lab to ensure all types of test methods are carried out as required by the Card Quality Management system (CQM), which drives and ensures processes, and benchmarks global practices.

We operate a continual improvement quality model encompassing management responsibility, resource management, product realisation, measurement, analysis and improvement. Customer satisfaction surveys are conducted regularly to ensure that our procedures and practices are working to satisfy the changing needs of our diverse customer base.



CONTACT SMART CARD

Contact Smart Cards are the most common type of smart card. Electrical contacts located on the outside connect to the card reader when the card is inserted. Customers can choose the right type of smart card for their application by determining their required level of security, processing power, flexibility and memory. In addition, our clients can include the following features:

- 6 and 8 pin contacts
- Standard and Microchip
- 1k, 4k, 8k, 16k, 32k, 64k, 128k etc.
- Engraved Images
- Hot Foil Stamping
- Metallic Foil

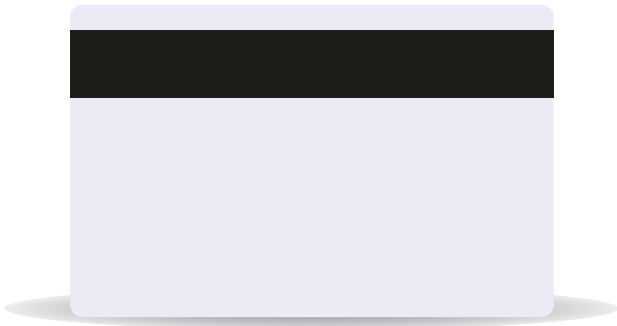




MAGNETIC STRIPE CARD

A Magnetic Stripe Card is any type of card contains data embedded in a strip composed of iron particles in a plastic film. The front of the card contains identifying information such as the cardholders name and the issuing companies name whilst the magnetic stripe resides on the back. Our clients can further customize this card with the following features:

- Hi_ Coercivity 4000 Oe
- Lo_ Coercivity 300 Oe
- 3 Tracks
- 2 Tracks
- 1 Track
- Engraved Images
- Hot Foil Stamping
- Metallic Foil



DUAL INTERFACE SMART CARD

The chip component of the Dual Interface Card is embedded in the outer layer of PVC, polycarbonate or polyester – this allows the card to be used in both contact and contactless transactions. Dual Interface Chips allow card readers to obtain the cards identifying information through the use of a single chip. In addition to its dual interface, our customers can include the following features:

- 6 and 8 pin contacts
- Standard and Microchip
- 1k, 4k, 8k, 16k, 32k, 64k, 128k etc.
- Up to 10CM reading range
- Type A, B and C
- Engraved Images
- Hot Foil Stamping
- Metallic Foil





PLAIN CARD

We manufacture superior quality plain cards using a strict quality control process, which keeps them clean and scratch free. These generic cards are designed for commercial card printers for thermal imaging, retransfer printing, hot stamping, embossing screen printing, dye thermal sublimation etc. Our plain cards can be customized in the following ways:

- All colors
- Gloss, Matte and Silk Finishing
- With Engraved Images
- In Metallic Foil
- Hot Foil Stamping

These generic cards are compatible with all ISO standard ID card printers.





FLEXOGRAPHIC PRINTING

Flexographic printing uses flexible photopolymer printing plates wrapped around rotating cylinders on a web press. The inked plates have a slightly raised image and rotate at high speeds to transfer the substrate.

Our flexography inks can print on many types of absorbent and non-absorbent materials and allow large orders to run with few interruptions to reload the substrate.

We have on offer a full selection of flexographic printing solutions such as:

- Self – Adhesive Labels – Clients can choose from a large selection of laser and inkjet blank adhesive labels. Our standard self-adhesive label comes with permanent adhesive on 8.5 x 11” sheets and peel off liner.
- Non-Adhesive Labels – These labels are mainly produced from cardboard and different types of plastics or foils and are used in the textile industry, retail, gardening, forest and lumber industry. Non-adhesive labels are used when self-adhesive label application is not suitable.



LABELS

Our extensive range of labels keeps items, documents and files organized around your workplace or home. We have labels available in various shapes, sizes and colors with the option to choose an adhesive or non-adhesive base. Labels can be printed on a variety of substrates including:

- Paper
- Plastic
- Tag Board
- Metallic paper and foil
- Thermal paper
- Films

Labels are available in matte, silk and glossy finish.





PLATE**MAKING**

Our pre-press and repro process brings your designs to life in print – we have invested substantially in technology to maximize productivity and ensure the best results. Efficiency is ensured in the following ways:

- Printing plates are generated directly from the digital data making the output 100% accurate.
- The incorporation of sophisticated planning software successfully powers the multi-source workflow resulting in an exceptionally efficient process.
- Digital proofs are generated using the same digital data utilized in the production of the plates; viewing our initial proofs, you can be confident that you are also seeing the end results.

FLEXOGRAPHIC PLATES (KODAK FLEXCEL NX PLATE)

Backed by excellent craftsmanship, our Flexo plates are designed to provide the optimum balance of quality, productivity and speed whilst delivering on-press efficiencies including the reduction of ink and substrate waste by using fewer plates per job. This results in considerable savings in press set-up costs, less downtime and enhanced speeds.

- Capacity to produce 5000 square inches of plates within 24HRS (plate imaging area: 570mm X 710mm)



THERMAL CTP OFFSET PLATES

Our Offset Plates possess exceptional reproduction capabilities, and deliver remarkable image quality to commercial printers. The application of SQUARESPOT Technology adds stability by producing precise and robust halftone dots, which elevates image quality to 10,000Dpi in commercial printing and 5000dpi in newspaper printing

- Suitable for Ultraviolet, Water Base and Solvent Base Inks
- Plate Sizes: Ranges from SM52 (525 X 459 MM) to SM74 (745 X 605 MM)
- Capacity: 200 plates in 24 hours

SILKSCREEN FILMS (KODAK DITR 4401)

By utilizing a completely digital prepress operation, we are able to produce high-density films produced by thermal ablative imaging via an infrared laser source.

These films are well suited for:

- Silkscreen Frame Production
- Analog Flexography Plates
- Analog Offset Applications
- Liquid Photopolymer
- Overlay Proofing

This innovative film eliminates processing entirely, saving time and minimizing the opportunity for process variations that can necessitate start overs.

Film Imaging Area: 921mm x 633mm

Capacity: 36252 Square Inches of Films within 24 HRS

CONTACT **US**



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