Key Advantages

A simplified card production process

JETcard 3D is a true Card Factory which can replace up to 5 traditional pieces of equipment - offset press, collator, lamination press, die cutter & personalization printer/encoder.

Dramatic cost reduction

Since the JETcard 3D requires a single operator - instead of 3 to 5 with traditional processes - this reduces costs dramatically while achieving breakthrough productivity level.

On demand production

The JET card 3D combines the qualitative/quantitative advantages of an offset press (speed, output, inks) with the flexibility of digital printing technology(variabledataprintingandon-demandproductioncapabilities).

Variable data

MGI's inkjet technology and the integrated external controller allows all types of variable data printing with all JETcard 3D inks coatings - including the UV security ink.

Ease of use

The JET card 3D is designed for seamless plastic card production. A single operator can supervise the whole production - even for a 250,000 card batch. Everything is automated and fully digitally controlled.

Reduced footprint

Because each square meter represents additional

costs, JETcard 3D requires only 50 m^2 to operate, where the 5 traditional pieces of equipment needed 500 m^2 . 10 times less space translates into more margin for your business.

Amazing production speed

Every single hour, JETcard 3D delivers 8,000 simplex cards or 4,000 duplex cards fully printed, personalized, encoded, protected and

Integrity & quality controls

JETcard 3D includes several on-board camera systems which guarantee that each card is properly encoded, printed and the front side matches exactly the back side.

Optimize your stock and storage spaces

With the IET card 3D, there is no need to store thousands of pre-printed card shells for your customers that are awaiting final personalization. You just need to store raw plastic & paper cards that you will print & personalize in just one pass, in the exact quantity required.

Don't farm your card production (and profits) out any longer - bring your profits back in-house with the JETcard 3D.

Environmentally friendly solution

solvents, no chemical waste) while reducing the overall electrical JETcard 3D can print on environmentally friendly paper cards, a sustainable alternative to PVC with the same standard thickness (760 µm) and made of 100% recyclable and natural materials.



Printing technologyMGI's Drop-on-Demand (DOD) inkjet technology. Piezo heads

mounted on a solid plate covering the entire width. Single pass printing

Up to 720 x 2160 dpi

4 to 8 color printing and additional UV inks (pre-coating, security ink, UV coating, white opaque ink, spot colors, etc.) Full-bleed card printing

New Enhanced Printing functions

Printing with spectacular embossing/3D effects or flat print effect Opaque white UV ink now available Signature panel printing

Variable Data Printing even on embossed 3D effects

Production soeed

Up to 8,000* simplex cards per hour. First card out in 16 seconds. No preheating or system latency

Card size specifications

ISO CR-80 compliant (width x length) - 53,98 mm x 85,60 mm or

Increased format size capabilities (larger than CR-80), such as coupons, key cards/key fobs and combo cards (CR-80 card plus key fob) Thickness - from 300 up to 1,000 microns

PVC cards with/without treatment, PET, Teslin, PLA, other synthetic substrates. Paper cards using coated materials - such as Arjo Wiggins

500** card magazine - change on-the-fly during production

Five (5) high precision stackers with a total capacity of 2,500 cards are mounted on a rotating carousel that can be both loaded and unloaded on the fly without interrupting production. Each stacker is individually coded and can be individually selected

Card transportation system

100% flat path system with double feed detection

Automatic and in-line UV curing system. Ozone-free process

HiCo & LoCo compliant. All written data are automatically verified. Defective cards are routed into a rejection bin

- Back & Front End System
 Powerful external controller provided on a dedicated PC key features include color management, variable data printing, and a production cost calculator
- Command WorkStation using another dedicated PC (1st screen + keyboard/mouse at operator level)
- Integrated webcam to monitor card production process (2nd screen at
- Ethernet connection 10/100/1000BT (RI-45)

A dry airflow is required (6 bar @ 400 l/mn)

Maintenance and remote technical support

Daily maintenance completed in less than 10 minutes. Most procedures automated. From cold start to production in less than 15 minutes. Remote troubleshooting & support via included video/web camera (high speed internet connection required)

Integrated user-friendly touch-screen LCD

Dimensions (L x W x H)

5.98 x 1.25 x 1.85 meter / 19.7 x 4.1 x 6.1 ft I meter / 3.3 ft clearance required on all 4 sides

3,400 kg / 7,496 lb

Electrical requirement

400V, 20 kVA (3P+N+T/32A PI7)

Respect de l'environnement

Eliminates resource waste (wasted electricity, paper and inks varnish) No plates (offset) or screens (screen printing) No messy cleanup or preparation between jobs Drastic reduction in amount of consumables and use of bulk packaging. Ozone free. Varnishlink without solvent.

Operating environment

Temperature: 18 à 30°C/64 to 86°F

Relative humidity: between 20 and 70% (no condensation)

Noise level: 69dB(A) at 50Hz

* speed will vary according to printing parameter used ** using 760 micron cards



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Operator / end-users are invited to submit substrates to MGI for validation

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The Card Factory

MGI Digital Technology, the only French manufacturer of digital presses and finishing solutions, has more than 15 years of experience in printing plastic cards. MGI is a true innovator and market leader, continuously introducing new methods and new materials for plastic card production. With hundreds of plastic card production solutions installed worldwide, MGI has unsurpassed experience and knowledge in PVC printing & finishing.

Typically, a traditional plastic card production chain is using up to 5 pieces of equipment: offset press - collator - laminating press - die cutter & personalization printer/encoder.

Each piece of equipment has varying productivity levels, requires a specialized operator, and can sometimes be spread across a large site. Combined, these factors result in high production costs. With the JETcard 3D, MGI streamlines the production chain by bringing all these key processes into one piece of equipment. The JETcard 3D features MGI's award-winning inkjet technology and is a true reinvention of the traditional plastic card production process.

From an individual blank ISO CR-80 card, the **IET card 3D** performs the following processes in just one pass:

- Pre-print coating to ensure a full compatibility with the substrates available on the market (PVC, ABS, etc.)
- Inkjet printing in 4 to 8 UV colors, including micro text and guilloché patterns
- Full variable data printing including text, barcodes & images
- Spot UV coating or flood UV coating for card protection
- Security inks revealed only under a black light
- Signature panel printing
- Read & write on the embedded magnetic stripes
- Choice between flat or textured background
- Automated quality controls and ejection into a rejection bin of the defective cards

The JETcard 3D is a true Card Factory, producing high quality paper or plastic cards, in just 1/10th of the usual space required but with higher productivity and higher margins than traditional processes.

JETcard Manager

Though the Command WorkStation,

operator has access to severa

anaging card production (queue

anagement, reprint, color

oduction parameters &

uipment operation.A

roduction costs is also

nctions for controlling &

Encoding

your application requires liCo & LoCo fective cards are oward the rejection he production process.

UV Printing & Coating

Variable data (text,

graphics, barcode...)

Pre-coating prior

to printing

Printing in 4 to 8 UV

colors including white

Flood or spot UV coating

MGI

opaque ink

nology, the JETcard 3D prints int or textured mode nd a specialized ink can ght) or a white opaque ink Variable data printing can

Plastic & Paper Card Production Solution Featuring High Quality Digital Printing & Complete Personalization

Overview of JETcard 3D features

UV security ink

Print Speed & High Quality

Barcode

Quality control

Mag stripe encoding &

Datamatrix

Storage into a card magazine or

routing toward rejection bin

ints up to 8,000 simplex cards per hour. One of the highest print resolutions available

(720 × 2,160 dpi). Flat or textured printing 4 to 8 UV inks & coatings PANTONE® simulation.

pecial inks developed upon request.

Feeder/Stacker

JETcard 3D uses key-coded magazines, with each magazine containing 500 ISO-CR 80 cards.At any point, a magazine (empty of full) can be replaced on-the-fly without interrupting production.
The feeder uses one magazine at a time.
The stacker uses a rotating carousel with 5 magazines automatically loaded with finished cards.



minates resource waste (wasted electricity,

o plates (offset) or screens (screen printing). No messy cleanup or preparation between jobs Drastic reduction in amount of consumables and use of bulk packaging.

Ozone free. Varnish/ink without solvent, Can print on 760 µm cards that are 100% recyclable and made of natural materials, a sustainable Iternative to PVC.



Sample cards



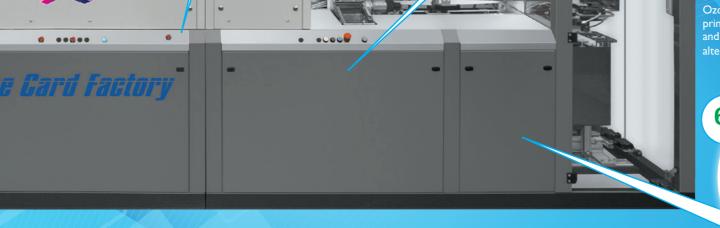






JETcard 3D the ideal solution for producing the following applications:

- Transit cards - Phone cards, etc.



Entry

Exit