

PunchCard

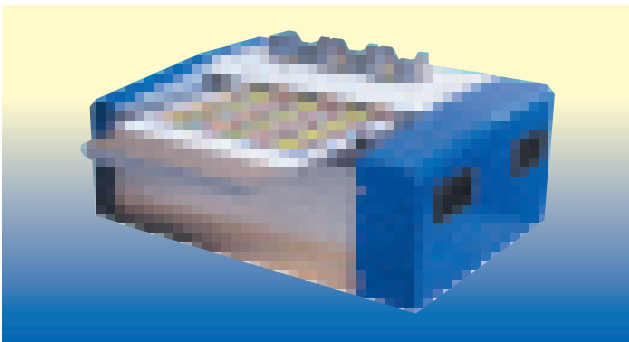
by M.G.I

Equipped with three simultaneous cutting tools and manual margin with a fully automated advance, PunchCard will die cut each sheet into 21 cards up ISO format (85.5x54 mm) with rounded corners and thickness of up to 750 microns or 30 mils. Die Cutting of the cards is ensured by reading crop marks using integrated fiber optics. The cards are automatically retrieved in the chimney stackers.

Technical specifications:

Dimensions

Width: 602 mm (23.7")
Depth: 589 mm (23.2")
Height: 245 mm (9.6")
Weight ± 188 Lb (85 Kgs)
Power supply: 110 V/60 Hz / 220 V/50 Hz
Substrate format: Reel width:
Minimum: 300 mm (11.80") - Maximum: 330 mm (13")
Length: Minimum: 190 mm (7.50") - Maximum: 482,6 mm (19")



Card thickness:
21 UP TEMPLATE 13" x 19" forms
PVC, Polyester, Plastic and paper : ± 100 or 4 mils to ± 750 microns or 30 mils
24 UP TEMPLATE 13" x 19" forms
PVC, Polyester, Plastic and paper : ± 100 or 4 mils to ± 500 microns or 20 mils

Cutting format: 85.5 x 54mm (3.36" x 2.12") – ISO Format
Collection stacker for cut out cards : 3 chimney stackers
Capacity : ± 150 cards in each stacker
Cutting speed : ± 5000 ISO Cards/Hour

PunchCardPro

by M.G.I



PunchCard Pro® is an industrial production unit dedicated to converting and finishing plastic cards. PunchCard Pro allows the simultaneous two sides lamination of the card (thickness of the lamination films: 100/175/250 microns or 4/7/10 mils) and die cut (high precision) with rounded corners in ISO (85.5x54 mm) format with a final thickness of ± 100 or 4 mils to 800 microns or 30 mils for a production speed of over 800 cards/hour max. PunchCard Pro is fully automated, including automatic advance and card production conveyance. The operator's job is reduced to simply loading the machine and collecting the finished plastic cards. A stand-alone front end computer manages production.

Technical specifications:

Height: 137 cm or 54"
Width: 148 cm or 58.2"
Depth: 87.3 cm or 34.4"
Weight: 664 Lb or 300 kg

Powersupply: 220/230 V/50/60 hzt
– 110 V/60 Hz
Electrical power: 4 KW

Air supply: 5/6 bars
(Compressor not supplied)

Production speed: 800 cards/H
(Laminated and cut out)

PunchCard Pro® standard version is equipped with two removable feed magazines each capable of accepting 600 cards (320 µ or 13 mils), an insertion and conveyance table to the lamination rolls ; two web supports for simultaneous recto/verso lamination and automatic rewinding of the skeletons ; a pneumatic die cutting tool ; a collection chimney stacker magazine.

PunchCard Pro®'s standard version is delivered with a supervision and production management software program.

PLASTICard

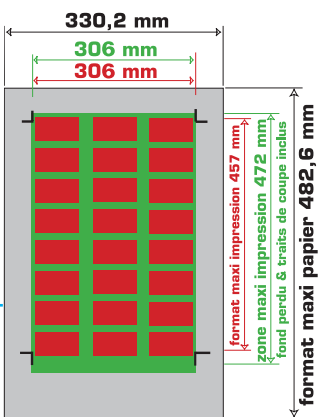
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Technical specifications of a Plasticard press

Technical specifications of a Plasticard press
Resolution: Max. 2400 Dpi. – 150 Lpi
Sheet format: A3++ 330.2 x 482.6 mm (13"x19")
Max. Print area : 306 x 457 mm – (12"x 18")
Max. Print format, crop marks included, 306 x 472 mm (12" x 18.6")

Types of substrates : PVC-Polyester-Teslin® SP, Melinex®, Polycarbonate Lexan®, Polyester Autotype®, PET, Vinyl, etc. - other selected substrates (upon manufacturer approval and testing)
Substrate weights (before lamination): 100 or 4 mils to 320 µ or 13 mils
Substrate feeds:
- Feeder stacker, approx. 2,000 sheet (100 µ or 4 mils) capacity
- Air feed and Friction system
Interfaces : Ethernet®, EtherTalk®, Protocol TCP/IP, and UDP
Color management : ICC® Profiles, Pantone® certification
Toners : Microfine Cyan, Magenta, Yellow, and Black.

* Standard PVC. approved by M.G.I. (specially treated/coated PVC. not required).



Print Station Manager

Adobe® PostScript level 3 (Harlequin®) language interpretation software
Input : AppleTalk, NetWare, TCP/IP, and Spoolfolder
Formats supported : PS, EPS, TIFF, DCS, JPEG, PDF & PDF/X
Supports for separations by CAP/Prepress operations
Separation in InRIP for composite/RGB electronic files
Automatic insertion of register marks, test patterns, scale and crop marks
Composite or separation mode preview
Unlimited color management
HPS (High Precision Frame) traditional frame generator
Adjustable, programmable dot shapes, frame angles and levels management of PostScript and TrueType fonts.
Saving and storage of rasterized files
Colorimetric calibration and integrated spectrophotometer
Management of CIE Lab colors, ICC profiles and Pantone® shades

MGI RIP server

Pentium IV – 2.5 GHz - Windows 2000 Pro operating system -
Internet Explorer 6 - 512 Mb RAM - 40 Gb mini hard drive.
Minimum configuration (November 2002)

Overall press dimensions:

Depth 69 cm or 27", Depth with web 117 cm or 45.8"
Height 126 cm or 50", Width 78 cm or 31"
Weight : 355 Lb or 160 kg
Electric power supply : 220V-50 Hz – 110 V/60 Hz
Consumption: 220V 1800 VA, 8 A Max.

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create,
innovate,
invent,
print
on
plastic
media



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The first digital four-color press for
on-demand/short & medium run color
printing on synthetic substrates



PLASTICard

Digital 4-color press dedicated to the printing of Plastic Cards, * Badges, etc..

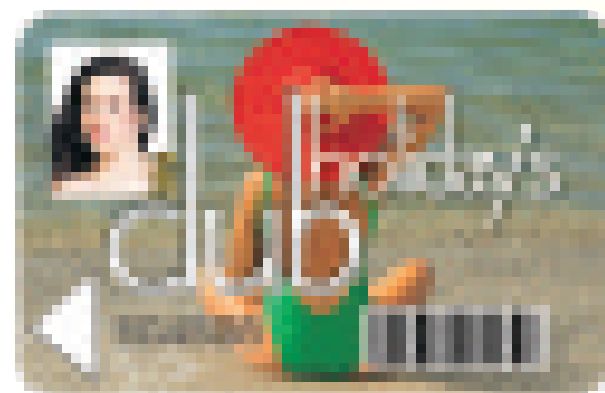
**PVC, POLYESTER, P.E.T., VINYL, TESLIN® SP, LEXAN®, POLYCARBONATE, AUTOTYPE®, MELINEX®...*

innovative

PlastiCard® is an innovation in the world of printing short and medium runs on PVC, Polyester, Teslin® and Polycarbonate media that combines the advantages of traditional offset printing and the power of digital technology. PlastiCard® is based on the "Direct To Print" process, which eliminates the pre-press steps. With PlastiCard®, you access the digital printing market while retaining the assets of traditional printing.

unique concept: upgradeability

PlastiCard® comes in 4 versions (from 1 to 4 stand-alone 4-color presses) making it possible to print from 90 to 240 (330X482 mm or 13X19 ") 4 color sheets (CMYK/RGB) or around 2,000 to 8,000 Cards/Hour. Its architecture is unique, when your print volumes expand, you can upgrade the initial configuration of your equipment with 1 or more presses and thus increase your productivity without losing your initial investment.



industry standard

PlastiCard® allows you to print on magnetic (ready to be encoded PET) or non-magnetic plastic substrates* from ±100 or 4 mils to ±320 µ or 13 mils. It is equipped with a Print Station Manager including a RIP (Pantone® certified & Harlequin® based). PlastiCard® accepts ICC® profiles. It is completed by automatic colorimetric calibration software that includes a spectrophotometer and a linearization software program for expendables to ensure the colorimetry between each four-color printer. The HPS (high precision) frame generator allows you to change the shape of the dot and its angle. Thanks to its multi-task functions, you can rasterize and handle several jobs at the same time (queue management), **variable data management (bar codes, numbering, databases, and photos).**

cost effectiveness

The market segments targeted by PlastiCard® represent the new realities of production and cost-effective requirements for digital printing on plastic media, for short and medium print runs and on demand printing, where traditional printing is a lengthy, expensive process. Pick the right card and join digital color printing and the fastest growing plastic card market segments. With PlastiCard® you can be reactive, reduce your costs and increase your margins. Thanks to the PlastiCard® digital technology, you can substantially reduce your plastic card production costs, **by using standard P.V.C. approved by M.G.I. (specially treated/coated P.V.C. not required).**



scope of application

With Plasticard® you can print now on:

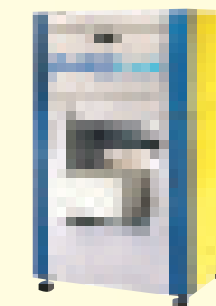
- PVC, Polyester, Teslin®
- Plastic cards
- Customer reward/loyalty cards
- Membership cards
- Prepaid cards
- Luggage tags
- Access security cards,
- Smart cards
- ID cards
- Voter cards
- Event cards
- PET (ready to be encoded HiCo)

but also on:

Polyester Autotype®

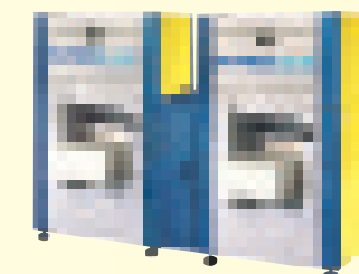
Polycarbonate Lexan®, Vinyl®

- Industrial marking
- Front Panel, keyboards
- Menus
- Dividers
- Data Sheets
- Counter cards
- Advertising marking
- Point of Sales Materials



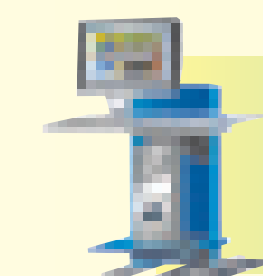
1 unit:

2,000 four-color ISO cards/H
6,000 B&W ISO cards/H



2 units:

4,000 four-color ISO cards/H
12,000 B&W ISO cards/H



RIP :

Adobe® PostScript level 3 (Harlequin®) language interpretation software
Input: AppleTalk, NetWare, TCP/IP, Spoolfolder - Formats supported: PS, EPS, TIFF, DCS, JPEG, PDF & PDF/X - Supports separations from CAP/Prepress Separation operations in InRIP mode for composite/RGB electronic files
Automatic insertion of register marks, test pattern, scales and crop marks
Composite or separation preview - open-ended color management

converting & finishing

In the world of printing plastic cards on PVC, Polyester, or Teslin SP for professionals, converting and finishing are every bit as important as printing. In addition to its line of PlastiCard® digital presses, M.G.I. has developed a line of products dedicated to converting and finishing (lamination and overlays, die cut):

• **Converting & Finishing**

Punch Card — Punch Card Pro

• **Finishing:**

Master Plast — Punch Card Pro

(Depositing of overlays or lamination)