



The ultimate solution for printing, encoding and laminating virtually any card — all in one pass!

Professional Series

HDP800 Series

High Definition Printer/Encoders

FARGO[®]

Card Personalization Systems

HDP800 Series The ultimate

The FARGO HDP800 Series meets the challenges of card personalization for you.

The new definition of card personalization excellence.

Introducing FARGO's HDP800 Series Card Printer/Encoders, featuring our one-of-a-kind High Definition Printing™ (HDP®) technology. This revolutionary process prints images onto special HDP Film that fuses to the surface of a card through heat and pressure. When combined with FARGO's advanced encoding and lamination technology, the HDP800 Series offers the ultimate solution for high-end and critical card security applications.

Detailed print quality that's over-the-edge.

The print quality of HDP technology is unsurpassed. The HDP800 Series prints 16.7 million colors at 300 dpi for outstanding image clarity and depth. It prints to the edge of any size smart chip, as well as over-the-edge of your card, giving you professional-quality prints with no white borders.

Tamper-resistant printing on nearly any card.

The HDP prints graphics and text on the underside of the HDP Film, sandwiching the image between the durable film and the card, for secure cards that are virtually tamperproof. And only the HDP800 Series lets you print on cards sized from CR-80 up to CR-100. You can even print on cards with irregular surfaces, like clamshell proximity cards.



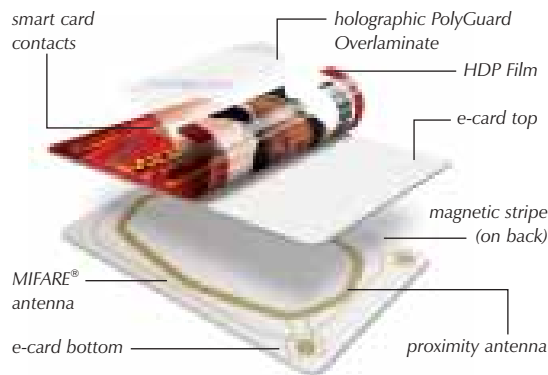
FARGO's patented dual, auto-switching Card Input Hoppers let you load up to 200 identical cards, or place a different stack of 100 cards into each hopper for added efficiency.

Unsurpassed e-card encoding capabilities.

Only the HDP800 Series can encode up to three different e-card technologies plus a magnetic stripe on a single card — all in one pass! It prints and encodes/reads standard e-card types, including contact smart cards, contactless smart cards and proximity cards. It's your one-step solution for access control, time and attendance, cafeteria, vending applications and more.

Revolutionary Card Lamination Module makes it easy to have durable and secure cards.

And only FARGO offers you the option of adding lamination — even after you've made your purchase! You can order an HDP800 Series printer/encoder with the Card Lamination Module factory-installed. Or, order the standard HDP820 or HDP825 and add the module when your needs grow. It applies overlamine to the front and/or back of most cards in the same pass as the printing and encoding! Plus, FARGO's clear and holographic PolyGuard Overlamines provide up to 25 times more protection than standard overlays.



Only FARGO HDP800 Series Card Printer/Encoders offer exclusive High Definition Printing and encoding of up to three different e-card technologies plus a magnetic stripe within a single card. Add lamination, and your cards can have the ultimate in durability and security.

solution for printing, encoding and laminating virtually any card — all i

our high-end security applications.

HDP825

High Definition Card Printer/Encoder

The Card Lamination Module can be added to your HDP820 or HDP825 now, or later when your needs grow.

Independent printing and encoding stations allow for a complete, one-step process.



FARGO's exclusive SmartScreen™ LCD Control Panel tells you what buttons to press, when to load supplies and even offers you online help.

High Definition Printing technology provides the highest quality card printing available.

Dual Card Hopper lets you automatically switch between two different card types.

Tape-based Card Cleaning System removes debris better and lasts far longer than competitive cleaning systems.



Uncompromising performance.

You might expect printer/encoders with such high print quality and vast capabilities to compromise on performance. Not these. They come standard with 8MB of memory, a Windows® printer driver, and independent printing and encoding stations.

They also offer high-volume ribbons, overlaminates and a large Card Input Hopper for fast, uninterrupted batch printing. Plus, for maximum card production, they can be networked with other HDP800 Series printer/encoders.

HDP800 Series	Input Hoppers	Card Capacity	Accepted Card Sizes	SmartGuard*	Encoding Modules**	Lamination Module
Dual-Sided Card Printer/Encoders						
HDP820	1	250	CR-80, CR-90 & CR-100	Included	Optional	Optional
HDP820-LC	1	250	CR-80, CR-90 & CR-100	Included	Optional	Included
HDP825	2	200	CR-80	N/A	Optional	Optional
HDP825-LC	2	200	CR-80	N/A	Optional	Included

* Secure, exclusive SmartGuard Printer Security restricts card printing access to authorized personnel only.

** Encoding Modules include a choice of: magnetic stripe card, contact smart card and contactless smart card encoders and/or proximity card reader.

n one pass.

HDP825-LC

High Definition Card Printer/Encoder with Card Lamination Module



Reliable and easy to use.

The HDP800 Series is designed for simple, worry-free operation. It features drop-in ribbon loading, easy-to-load card hoppers that protect cards, and an automatic card cleaning feature that assures the highest print quality.

FARGO's HDP800 Series is so advanced, it will meet virtually all of the card personalization needs of your organization — now and in the future.

Contact an authorized FARGO integrator about the HDP800 Series Card Printer/Encoder that's right for you!



The HDP800 Series can produce multi-function cards for a variety of applications including access control, time and attendance tracking, student or employee record storage, cashless vending, retail, loyalty and more!



STANDARD CARDS



OVERSIZED BADGES



OVER-THE-EDGE



MAG STRIPE



CONTACT SMART CARDS



CONTACTLESS SMART CARDS



PROXIMITY CARDS



LAMINATION



LCD DISPLAY



HIGH SPEED PRINTING



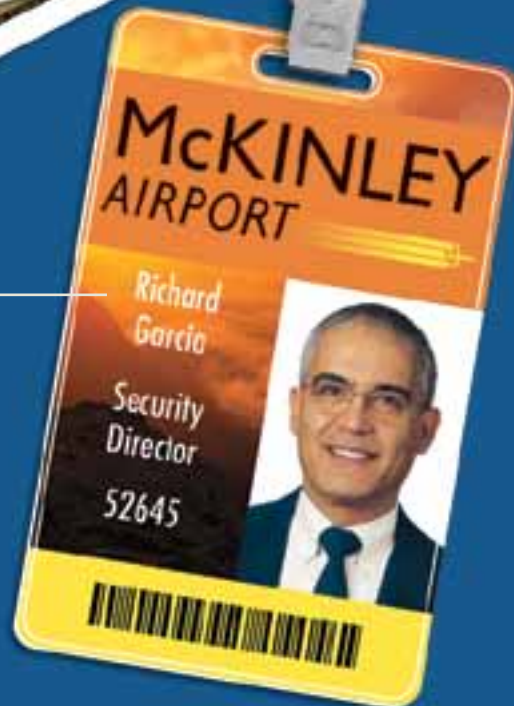
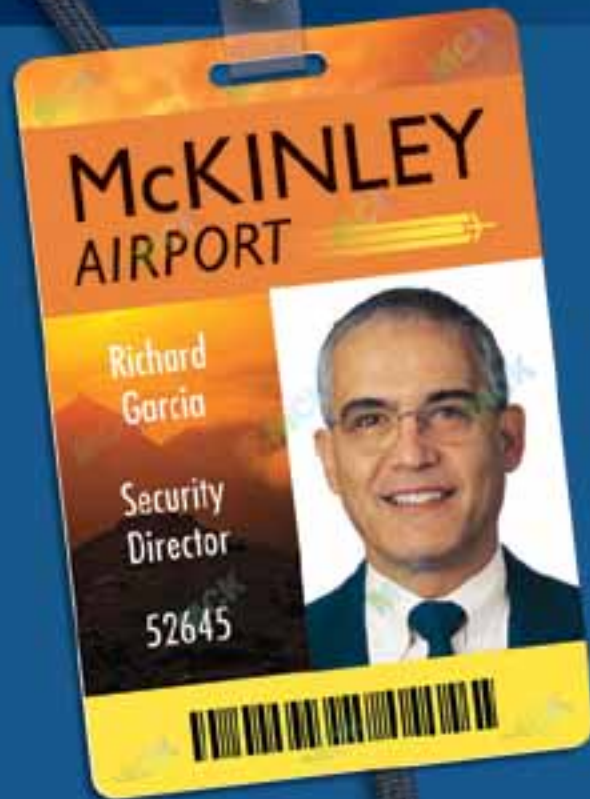
SMART GUARD



HIGH VOLUME PRINTING



DUAL HOPPERS



Smart Cards

- CR-80 Card
- Dual-sided Printing
- High Definition Printing
- Encoded Smart Chip
- Clear, Generic or Custom Holographic PolyGuard Overlaminates (.6 mil or 1 mil thick)
- 2D Bar Code (on back)
- Magnetic Stripe (on back)
- Digital Signature (on back)
- Optical Card Capabilities (on back)

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STANDARD CARDS



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DUAL HOPPERS

The HDP800 Series offers the ultimate one-pass solution for printing, encoding and laminating virtually any card!



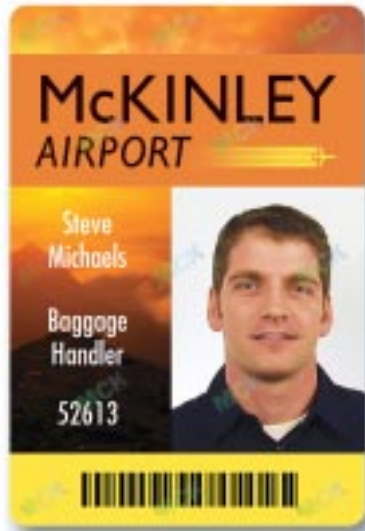
Corporate



Government



Education



Airports

HDP800 Series Specifications

Print Method:	HDP Dye-Sublimation / Resin Thermal Transfer
Resolution:	300 dpi (11.8 dots/mm)
Colors:	Up to 16.7 million / 256 shades per pixel
Print Ribbon Options:	<ul style="list-style-type: none"> • Full-color, YMC*, 700 prints • Full-color with resin black, YMCK*, 250 or 500 prints • Full-color with two resin black panels, YMCKK*, 400 prints • Full-color with resin black and heat seal panel for difficult-to-print surfaces, YMCKH*, 400 prints; extra wide for over-the-edge printing on CR-100 cards All HDP ribbons utilize FARGO's exclusive RibbonTraq™ system for maximum print quality, performance, reliability and ease of use.
HDP Film Options:	<ul style="list-style-type: none"> • Clear (1,250 prints) • Standard Holographic • Custom Holographic, special order
Overlamine Options:	<ul style="list-style-type: none"> • Thermal Transfer Overlamine, .25 mil thick • PolyGuard Overlamine, 1.0 mil and .6 mil thick All overlamines available in clear, holographic globe design or custom holographic design. PolyGuard available in CR-80, CR-90 and CR-100 patch sizes.
Print Speed:**	Batch Mode: <ul style="list-style-type: none"> • 32 seconds per card / 112 cards per hour (YMC with transfer)* • 38 seconds per card / 94 cards per hour (YMCK with transfer)* • 66 seconds per card / 54 cards per hour (YMCKK with transfer)* • 40 seconds per card / 90 cards per hour (YMCK/lamination)* • 72 seconds per card / 50 cards per hour (YMCKK/lamination)*
Accepted Standard Card Sizes:	HDP820/820-LC: CR-80 (3.375"L x 2.125"W / 85.6mmL x 54mmW) CR-90 (3.63"L x 2.37"W / 92mmL x 60mmW) CR-100 (3.88"L x 2.63"W / 98.5mmL x 67mmW) HDP825/825-LC: CR-80 (3.375"L x 2.125"W / 85.6mmL x 54mmW)
Print Area:	Over-the-edge on all accepted standard card sizes listed above (YMCKH ribbon required for over-the-edge printing on CR-100 cards)
Accepted Card Thickness:	Print only: .030" (30 mil) to .070" (70 mil) / .762mm to 1.778mm (30 mil maximum for CR-100 cards) Print/Lamination: .030" (30 mil) to .040" (40 mil) / .762mm to 1.02mm
Accepted Card Types:	ABS, PVC, PET, PETG, proximity, smart and mag stripe cards, optical memory cards
Input Hopper Card Capacity:	HDP820/HDP820-LC: 250 cards (.030" / .762mm) HDP825/HDP825-LC: 200 cards (.030" / .762mm)
Output Hopper Card Capacity:	100 cards (.030" / .762mm)
Security Features:	SmartGuard Printer Security (available only for HDP820 and HDP820-LC)
Memory:	8MB RAM; upgradeable to 32MB
Display:	User-friendly, SmartScreen LCD Control Panel; LED Display Card Lamination Module
Software Drivers:	Windows® 95/98/Me/NT 4.0/2000/XP
Encoding Options:	<ul style="list-style-type: none"> • ISO Magnetic Stripe Encoding Module, dual high- and low-coercivity, Tracks 1, 2, and 3 • JIS II Magnetic Stripe Encoding Module • E-Card Docking Station (required for all e-card options or 3rd party smart card encoding) • Contactless Smart Card Encoder (MIFARE®) • Contact Smart Card Encoder reads from and writes to all ISO7816-1/2/3/4 memory and microprocessor smart cards (T=0, T=1) as well as synchronous cards • Prox Card Encoder (HID read-only)
System Requirements:	IBM-PC or compatible, Windows 95/98/Me/NT 4.0/2000/XP; Pentium® class 133MHz computer with 32MB of RAM or higher, 200MB free hard disk space or higher, ECP parallel port with DMA access
Interface:	Centronics Parallel, IEEE 1284 compliant
Operating Temperature:	65° to 80° F / 18° to 27° C
Humidity:	20-80% non-condensing
Dimensions:	HDP820/825: 15"H x 26.1"W x 14"D / 381mmH x 663mmW x 356mmD HDP820-LC/825-LC: 15"H x 34.75"W x 14"D / 381mmH x 883mmW x 356mmD LC Module: 14.2"H x 13"W x 10"D / 362mmH x 330mmW x 254mmD
Weight:	HDP820/825: 70 lbs. / 31.8 kg HDP820-LC/825-LC: 87 lbs. / 39.5 kg LC Module: 21 lbs. / 9.5 kg
Agency Listings:	Safety: UL 1950, CSA C2.2 (No. 950-95) and TÜV-GS (EN 60950 A1-A4, A11) Emissions: ITS (EN 55022 Class B:1995), FCC Class B, EN 50082-1:1997, BSMI, CRC c1374 and CE Mark
Supply Voltage:	100-240 VAC, 3.75A
Supply Frequency:	50 Hz / 60 Hz
Warranty:	Printer – One year; optional Extended Warranty Program (U.S. only) Printhead – Lifetime; unlimited pass
FARGO Certified Supplies:	FARGO Card Printer/Encoders require highly specialized media to function properly. To maximize printed card quality and durability, printhead life and printer/encoder reliability, use only FARGO Certified Supplies. FARGO warranties are void, where not prohibited by law, when non-FARGO Certified Supplies are used.
Options:	<ul style="list-style-type: none"> • 32MB RAM Upgrade Kit • Printer Cleaning Kit • External Print Server (Windows only; required for stand-alone networking of printer/encoders) • Card Lamination Module • USB-to-Parallel Interface Cable (Windows 98/Me/2000/XP only)

*Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, H=Heat Seal

**Print speed indicates an approximate batch print speed and is measured from the time a card feeds into the printer to the time it ejects from the printer. Print speeds do not include encoding time or the time needed for the PC to process the image. Process time is dependent on the size of the file, the CPU, amount of RAM and the amount of available resources at the time of the print. (Note that single card speeds will be slower than the batch print speeds listed above since batch print speed is enhanced by the printer's multi-tasking capabilities when printing multiple cards in succession.)

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