

Printing & Encoding Solutions



FARGO® HDP5000
High Definition Printer/Encoder



Get vibrant, High Definition cards from the reliable, affordable FARGO® HDP5000.



High Definition Printing™

HDP® delivers the highest image quality layered on the highest functioning cards. HDP Film fuses to the surface of proximity and smart cards, conforming to ridges and indentations formed by embedded electronics.



Versatility delivered. Complexity simplified.

Colors are vibrant. Images are crisp. Quality is second to none. ID cards printed on FARGO HDP5000 Card Printer/Encoders do more than protect your organization — they reflect the value you place on your brand. HDP5000 produces ID cards with the highest image quality available. By printing a reverse image on the underside of HDP Film, then fusing the film to the card surface, the HDP5000 creates an image quality that looks more like a sharp glossy photo than an ordinary ID badge.

Printing on film instead of directly on the card means that the uneven surface of technology cards doesn't compromise image quality. The HDP5000 can print up to the edge of smart chip contacts, and over the edge of the card.

High quality meets affordability.

With the FARGO HDP5000, the price tag looks as great as the cards it produces. We can deliver high definition images cost-effectively, making the HDP5000 an ideal solution for a broad range of organizations.

Rely on it for more than good looks.

The HDP5000 is exceptionally reliable, which means less printer downtime. Because the printhead never comes in contact with card surfaces or debris, it's never damaged in the printing process. In fact, it carries a lifetime*** warranty.

Cards produced by High Definition Printing are inherently more durable and secure than other types of cards. They resist wear and tear by putting a durable layer of HDP Film between the card image and the outside world. They're also tamper-evident — if a counterfeiter tries to peel apart the layers, the image essentially destroys itself.

Improvements you'll see in every card.

FARGO introduced High Definition Printing in 1999, and we've been advancing the technology ever since. The HDP5000 is one of the most affordably priced reverse transfer printers on the market today. It's also the most efficient, with improvements at every level. Simple operation requires only minimal training. Cards, ribbons and overlaminates literally load in a snap via the cartridge-based system. Sharp image quality and new half-panel ribbons make High Definition Printing even more economical. Fast printing, combined with a dual card input hopper for multiple card types help you fly through the biggest production jobs.



Dual-sided printer/encoder



Lamination and dual card input hopper options

Versatile design grows with your needs.

The HDP5000 offers the versatility to meet your card application needs today and in the future. The system's flexible architecture lets you expand or reduce production instantly, with add-on dual-sided printing, encoding and lamination modules. For greater system capacity, an optional dual card input hopper lets you easily manage multiple card types and higher card volumes. Because the HDP5000 easily integrates with other products within the HID ecosystem, you can leverage your existing Genuine HID technology investments.

Add dual-sided durability and security — fast.

Applying a holographic overlamine or holographic HDP Film to the front of an ID card improves its durability and security. An overlamine on both sides doubles the protection. The HDP5000 laminates both sides of a card simultaneously in one efficient pass. Since the lamination module needs no card flipper, it doesn't waste time by turning a card over and laminating it again. Saving a few seconds per card may not sound like much, but multiplied by a 5,000- or 10,000-card production run, the savings are substantial.

The right printer for every application.

High Definition Printing is the technology of choice for the best looking ID cards available, making the HDP5000 a smart choice for retail stores, recreation facilities, or any organization whose brand image is paramount. With the printer's Color Assist tool in the included Workbench diagnostic utility, organizations can match spot colors to ensure accurate printing of graphics such as company logos.

It's also right for organizations that demand more functionality from their ID cards. Colleges, loyalty and membership programs, businesses and corporations, health care facilities and government agencies are all expanding their use of multifunction smart cards. Encoding options allow configuration of the HDP5000 to produce highly secure

contact and contactless smart cards that address your specific needs. And print quality is never sacrificed; the High Definition Printing process fuses the HDP Film to the card surface, conforming to ridges and indentations of the embedded electronics in smart and prox cards so images are always sharp.

Produce High Definition cards anywhere.

Card production is no longer limited to stand-alone badging stations. A retail chain, for example, can distribute card issuance over a network to any location. On a corporate campus or university, an array of printer/encoders can be set up in a central location for high-volume production. The printer's Ethernet port and internal print server provide the connectivity needed for networked operations. The HDP5000 is the ideal choice for countless scenarios.

Take your card printing higher.

Only one card printer offers ultimate image quality and printer reliability, affordably. For every need — from great-looking photo ID cards to multifunctional, high-security applications — the HDP5000 does the job beautifully.

Learn more about the HDP5000

To find a FARGO integrator near you, visit hidglobal.com

The next generation of smart card applications.

With the HDP5000, you can print in high definition and encode multifunction cards for a variety of applications:



Government IDs
Whether it is for drivers' licenses, national IDs, or employee and contractor badges, government agencies demand reliable and secure card

issuance. The FIPS-201-certified HDP5000 is a versatile, easy-to-use and cost-effective printer/encoder for producing high-secure, durable government IDs. Its High Definition Printing capabilities produce cards that are resistant to wear, tear and tampering. Optional Visual Security Solutions™ materials provide added fraud and counterfeit deterrence.



Corporate IDs
From large corporations to small businesses, the HDP5000 is streamlining issuance of multi-functional employee ID cards used for visual

identification, time and attendance, access control and payment functions. In an inline process, the printer personalizes smart cards with text and color, and reads pre-programmed access card data, such as iCLASS®. The printer's inline processing saves time, speeds ID issuance and effectively reduces data entry errors that occur in the common two-step access card personalization process.



Student IDs
Yesterday's student photo ID is today's multifunction campus one-card. A single card can be used for physical access to buildings, logical access

to networks, library checkout and other services, as well as cashless and debit card transactions on and off campus. The HDP5000 makes on-the-spot issuance of these multifunctional student IDs fast and efficient. For IDs that experience a lot of wear and tear, durable, secure and tamper-resistant High Definition Printing technology is the right choice.

Specifications Overview <small>(complete HDP5000 specs available at hidglobal.com)</small>	
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 Speed (batch mode):**	<ul style="list-style-type: none"> • up to 24 seconds per card / 150 cards per hour (YMC with transfer)* • up to 29 seconds per card / 124 cards per hour (YMCK with transfer)* • up to 40 seconds per card / 90 cards per hour (YMCKK with transfer)* • up to 35 seconds per card / 102 cards per hour (YMCK with transfer and dual-sided, simultaneous lamination)* • up to 48 seconds per card / 75 cards per hour (YMCKK with transfer and dual-sided, simultaneous lamination)*
Accepted Standard Card Sizes:	CR-80 (3.370" L x 2.125" W / 85.6 mm L x 54 mm W)
Accepted Card Thickness:	.030" (30 mil) to .050" (50 mil) / .762 mm to 1.27 mm
Input Card Cartridge Capacity:	100 cards (.030" / .762 mm)
Output Hopper Card Capacity:	200 cards (.030" / .762 mm)
Software Drivers:	Windows® 10 / 8.1 / 8 / 7 / Vista® / XP / Server 2012 / Server 2012 R2 / Server 2008 / Server 2008 R2 / Server 2003 / Server 2003 R2
Print Area:	Over-the-edge on CR-80 cards
Warranty:	<p>Printer - Three years*** including one year of free printer loaner support with option to purchase a second year of printer loaner support (U.S. only)</p> <p>Printhead - Lifetime***; unlimited card passes</p>
Options:	<ul style="list-style-type: none"> • Dual card input hopper • Card lamination module - single-sided or dual-sided (simultaneous) • Smart card encoding (contact/contactless) • Dual-sided printing • Door and cartridge locks • Printer cleaning kit • Magnetic stripe encoding • 200-card input hopper • Secure Proprietary Consumables System • Custom Secure Holographic HDP Film and Overlamine
Included Software	FARGO Workbench Diagnostic Utility with Color Assist spot-color matching

* Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, I=Inhibit, F=Fluorescing, H=Heat Seal.
 ** Print speed indicates an approximate print speed and is measured from the time a card drops into the output hopper to the time the next card drops into the output hopper. 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.
 *** Three-year warranty available on printers and lifetime warranty available on printheads with completion of online printer registration. (Two-year warranty standard on both printer and printheads without online printer registration.)



SPECIFICATIONS SHEET



FARGO® HDP5000

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*, 750 prints • Full-color with resin black, YMCK*, 500 prints • Full-color with two resin black panels, YMCKK*, 500 prints, • Full-color with resin black and heat seal panel for difficult-to-print surfaces, YMCKKH*, 500 prints • Full-color with resin black and inhibit panel for signature or other non-printing areas, YMCKI*, 500 prints • Full-color with fluorescing and resin black, YMCFK*, 500 prints • Resin black, K, 3000 prints
HDP Film Options:	• Clear (1,500 prints) • Standard Holographic (500 prints) • Custom Holographic, special order (500 prints)
Overlamine Options:	<ul style="list-style-type: none"> • Thermal Transfer Overlamine, .25 mil thick, 500 prints • PolyGuard® Overlamine, 1.0 mil and .6 mil thick, 250 prints (PolyGuard available in a CR-80 patch size) All overlaminates available in clear, standard holographic design or custom holographic design
Print Speed:**	Batch Mode: <ul style="list-style-type: none"> • Up to 24 seconds per card / 150 cards per hour (YMC with transfer)* • Up to 29 seconds per card / 124 cards per hour (YMCK with transfer)* • Up to 40 seconds per card / 90 cards per hour (YMCKK with transfer)* • Up to 35 seconds per card / 102 cards per hour (YMCK with transfer and dual-sided, simultaneous lamination)* • Up to 48 seconds per card / 75 cards per hour (YMCKK with transfer and dual-sided, simultaneous lamination)*
Accepted Standard Card Sizes:	CR-80 (3.370"L x 2.125"W / 85.6mmL x 54mmW)
Print Area:	Over-the-edge on CR-80 cards
Accepted Card Thickness:	<ul style="list-style-type: none"> • Print only: .030" (30 mil) to .050" (50 mil) / .762mm to 1.27mm • Print/Lamination: .030" (30 mil) to .050" (50 mil) / .762mm to 1.27mm
Accepted Card Types:	ABS, Laminated PVC, PET, PETG, proximity, smart and mag stripe cards Note: ABS and PVC cards are not recommended for use in the HDP5000 Lamination Module.***
Input Card Cartridge Capacity:	100 cards (.030" / .762mm)
Output Hopper Card Capacity:	200 cards (.030" / .762mm)
Card Cleaning:	Replaceable cleaning roller (included with each print ribbon)
Display:	Graphical OLED
Software Drivers:	Windows® 10 / 8.1 / 8 / 7 / Vista® / XP / Server 2012 / Server 2012 R2 / Server 2008 / Server 2008 R2 / Server 2003
Single Wire USB 2.0 Encoding Options:	<ul style="list-style-type: none"> • ISO Magnetic Stripe Encoding, dual high- and low-coercivity, Tracks 1, 2 and 3 • Contactless Smart Card Encoder (HID iCLASS® and MIFARE) • ISO 7816 Contact Smart Card Encoder • Prox Card Reader (HID read-only)
Interface:	USB 2.0 (high speed) and Ethernet with internal print server
Operating Temperature:	65° to 90° F / 18° to 32° C
Humidity:	20 - 80% non-condensing
Dimensions:	<ul style="list-style-type: none"> • HDP5000: 11.50"H x 12.25"W x 9.25"D / 292mmH x 313mmW x 235mmD • HDP5000 + Dual-Sided Module: 11.50"H x 17.50"W x 9.25"D / 292mmH x 445mmW x 235mmD • HDP5000 + Single-Sided Lam Module: 12.75"H x 25"W x 9.25"D / 324mmH x 635mmW x 235mmD • HDP5000 + Dual-Sided Module + Dual-Sided Lam Module: 12.75"H x 30"W x 9.25"D / 324mmH x 762mmW x 235mmD • Lam Module: 12.75"H x 12.25"W x 9.25"D / 324mmH x 313mmW x 235mmD
Weight:	• HDP5000: 16 lbs. / 7.3 kg, HDP5000 + Dual-Sided Module: 22 lbs. / 10 kg, HDP5000 + Single-Sided Lam Module: 28 lbs. / 12.7 kg, HDP5000 + Dual-Sided Module + Dual-Sided Lam Module: 36 lbs. / 16.4 kg
Certifications:	UL, CE, IC, FCC Class-A, CCC, BSMI, KC, MIC
Supply Voltage:	100-240 VAC, 3.3A
Supply Frequency:	50 Hz / 60 Hz
Warranty:	<ul style="list-style-type: none"> • Printer - Three years**** including one year of free printer loaner support with option to purchase a second year of printer loaner support (U.S. only) • Printhead - Lifetime****; unlimited card passes
FARGO Secure Materials:	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 HID Secure Materials. HID warranties are void, where not prohibited by law, when non-HID Secure Materials are used.
Options:	<ul style="list-style-type: none"> • Dual card input hopper module • Card lamination module - single-sided or dual-sided (simultaneous)**** • Magnetic stripe encoding • 200-card input hopper • Smart card encoding (contact/contactless) • Dual-sided printing • Door and cartridge locks • Printer cleaning kit • Secure proprietary consumables system • Custom secure holographic HDP Film and overlamine
Software:	FARGO Workbench diagnostic utility with Color Assist spot-color matching

* Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, I=Inhibit, F=Fluorescing, H=Heat Seal
 ** Print speed indicates an approximate print speed and is measured from the time a card drops into the output hopper to the time the next card drops into the output hopper. 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.
 *** ABS and PVC cards are not recommended for use in the HDP5000 Lamination Module. (Free card proofing available. Please contact your local integrator for more information.)
 **** Three-year warranty available on printers and lifetime warranty available on printheads with completion of online printer registration. (Two-year warranty standard on both printer and printheads without online printer registration.)



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