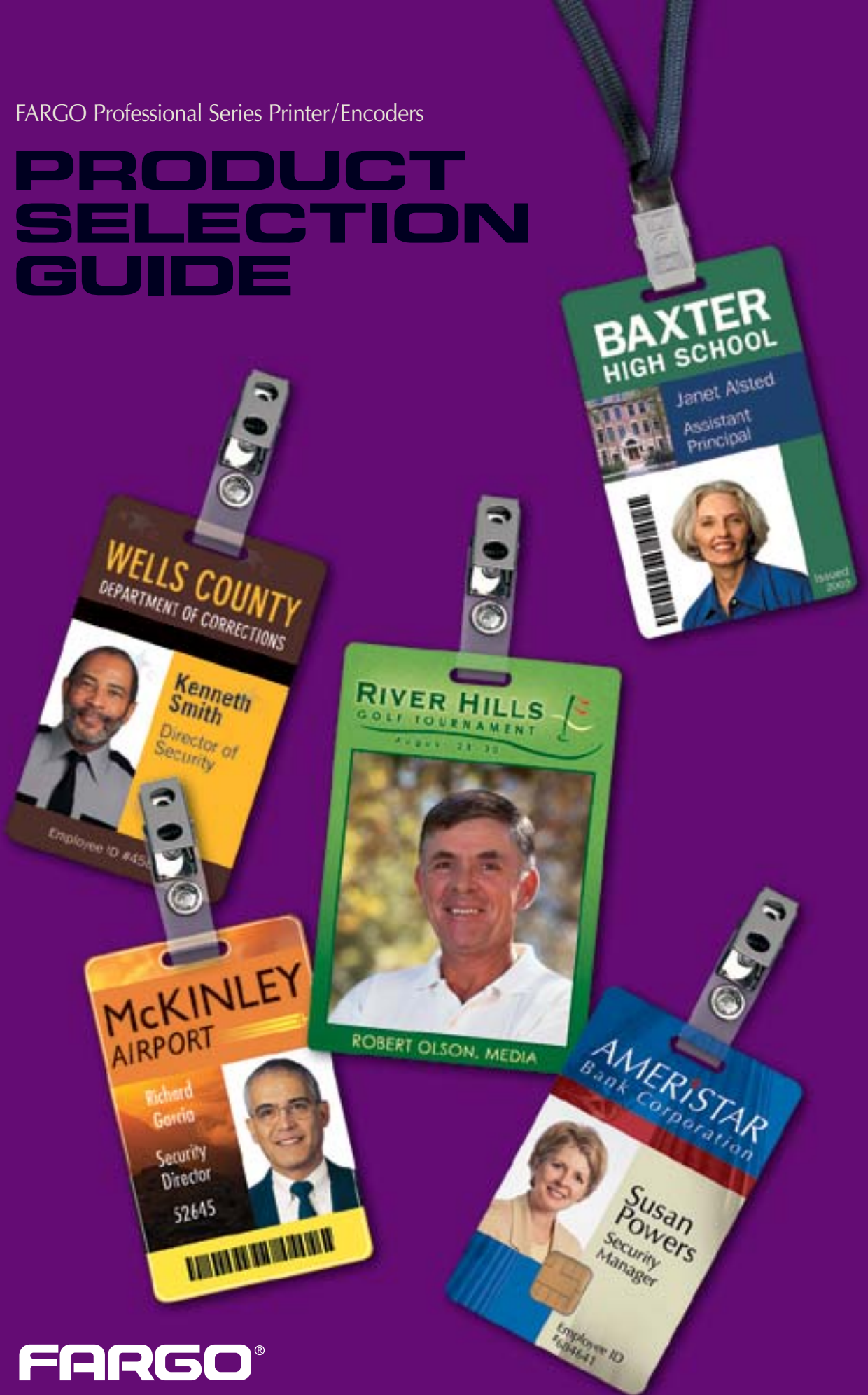


FARGO Professional Series Printer/Encoders

# PRODUCT SELECTION GUIDE



**FARGO**®

Card Personalization Systems



# We're changing the face of

For the most innovative card personalization systems in the world

## If you want personalized cards, you've come to the right place.

From photo IDs and access cards, to time and attendance tracking, FARGO Card Personalization Systems provide the best solutions — even for the tightest budgets. That's because FARGO Professional Series Card Printer/Encoders offer you the industry's most advanced card printing and encoding technologies, including proximity cards, smart cards and biometrics. Rest assured, you'll have the functionality you need today, and the expandability you want tomorrow. Read on to learn about new and exclusive FARGO features that will enhance your organization's image and help create a more secure, efficient environment. You'll see how we're changing the face of card printing.

### **NEW! Exclusive CardJet Printing™ Technology.**



Introducing the world's first inkjet card printer/encoder, the FARGO

CardJet 410. Featuring FARGO's exclusive CardJet Printing technology, the new CardJet 410 is an affordable card printer/encoder that offers unbeatable ease of use, virtually maintenance-free performance and high-quality, durable plastic cards.

### **Exclusive High Definition Printing™ Technology.**



Our High Definition Printing (HDP®) technology offers the world's best card print quality. It fuses HDP Film to cards for

virtually tamperproof results. The HDP800 Series are the only printer/encoders in the world that can print over-the-edge on oversized CR-100 cards. They even print on proximity and smart cards.

### **NEW! Exclusive Encoding Technology.**

Only FARGO offers printing and encoding/reading of up to three e-card technologies plus a magnetic stripe within a single card — all in one pass.

### **Exclusive SmartGuard™ Printer Security.**

SmartGuard is an electronic key that ensures that only authorized personnel can access your card personalization system. It helps you eliminate counterfeit cards and have a more secure system.

### **Exclusive SmartShield™ Card Security.**



Add affordable security to your cards with SmartShield. It lets you print custom transparent images that are only visible at an angle or under ultraviolet light. With SmartShield, you can have an additional level of card security without the expense of custom holographic overlaminates.

### **Exclusive PolyGuard™ Overlaminates**

Our PolyGuard Overlaminates are up to 25 times more durable than standard overlays. It delivers unequalled protection from abrasion and color fading. You can print, encode and laminate cards with PolyGuard Overlaminates in the HDP800 and DTC500 Series Card Printer/Encoders. For the most secure cards available, a custom hologram can also be incorporated.

# card printing.

— Go with FARGO!

<b>High Definition Printing</b> <i>Produces cards with superior print quality.</i>	<b>Direct-to-Card Printing</b> <i>Produces cards with excellent print quality.</i>	<b>CardJet Printing</b> <i>Produces cards with very good print quality.</i>
 <ul style="list-style-type: none"> <li>• HDP Film fuses to card for a virtually tamperproof card.</li> <li>• Prints 16.7 million colors for unsurpassed image clarity.</li> <li>• Over-the-edge printing.</li> <li>• Prints on CR-80, oversized CR-90 and CR-100, proximity and smart cards.</li> <li>• Available in HDP Card Printer/Encoders.</li> </ul>	 <ul style="list-style-type: none"> <li>• Proven DTC™ technology prints directly to card in cyan, magenta and yellow passes.</li> <li>• Prints full-color or monochrome images with crisp detail.</li> <li>• Edge-to-edge printing.</li> <li>• Prints on standard CR-80 cards.</li> <li>• Available in DTC Card Printer/Encoders.</li> </ul>	 <ul style="list-style-type: none"> <li>• CardJet ink bonds and dries instantly to CardJet Cards.</li> <li>• Prints photo-quality, full-color images with sharp detail.</li> <li>• Over-the-edge printing.</li> <li>• Prints on specially formulated CR-80 CardJet plastic cards.</li> <li>• Available in CardJet Card Printer/Encoders.</li> </ul>

## Which FARGO printing technology is right for your organization?

Your authorized FARGO integrator can help find the technology and card printer/encoder that's right for you.

### Exclusive Dual Card Input Hoppers.



Our patented dual, auto-switching Card Input Hoppers accept up to 200 of the same type of card, or a different stack of 100 cards in each hopper. Automatically switch between hoppers for added efficiency.

### High-Performance FARGO Certified Supplies.

Our selection of ribbons, inks and cards ensures maximum system performance. FARGO ribbons can print up to three times more cards than competitive printers. Our easy-to-use SmartLoad™ Cartridges and reliable RibbonTraq™ technology make replacement simple. Whatever printing technology you choose, our UltraCard™ and CardJet Cards help provide sharp images. Plus, our tape-based Card Cleaning Systems visibly outclean competitive systems.



### Exclusive SmartScreen™ LCD Control Panel.

This user-friendly interface tells you what buttons to press, when to load supplies, and offers online help text.

### Exclusive Global Network of Authorized FARGO Integrators.

With FARGO Card Personalization Systems, you also get the unparalleled expertise of FARGO authorized integrators. We handpick these systems integrators based on their proven abilities to master FARGO technology and meet your needs.

They'll help you select the card personalization system that's right for you. They'll help you set up your system. And they'll help you keep it running smoothly with expert technical support, service, training and maintenance.



FARGO systems integrators can create a stand-alone system, or integrate a printer/encoder with your new or existing systems, including access control, time and attendance, meal plan, parking, records storage and more.

**Contact an authorized FARGO integrator for the card personalization system that's right for you!**



OVERSIZED BADGES



OVER-THE-EDGE



SMARTLOAD CARD CARTRIDGE



MAG STRIPE



CONTACT SMART CARDS



CONTACTLESS SMART CARDS



PROXIMITY CARDS



LCD DISPLAY



OUTPUT STACKER



SMART SHIELD



SMART GUARD



SMARTLOAD INK CARTRIDGE



DUAL HOPPER



LAMINATION

# HDP800 Series

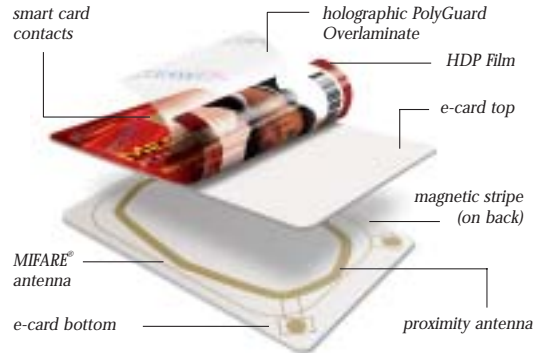
## The ultimate solution for printing, encoding and laminating virtually any card — all in one pass!

Only HDP800 Series Card Printer/Encoders feature FARGO's one-of-a-kind High Definition Printing (HDP) technology.

This revolutionary process prints images onto special HDP Film which is then fused to the surface of a card through heat and pressure. Combined with FARGO's advanced encoding and lamination technology, it's the ultimate solution for high-end and critical card security applications.



HDP825  
Card Printer/Encoder



## Tamper-resistant printing on nearly any card.

With 16.7 million colors and 300 dpi, the HDP800 Series produce tamper-resistant cards with unequalled clarity and depth — even on hard-to-print cards, such as oversized ID badges and thick proximity cards. Plus, the unique HDP printing process gives you over-the-edge printing with absolutely no white borders! It even prints tightly to the edges of a smart chip.

## Unsurpassed e-card encoding capabilities.

The HDP800 Series can encode/read up to three different electronic technologies plus a magnetic stripe on one card! It allows you to print and encode/read proximity cards, contact smart cards and contactless smart cards in one pass. It's your one-step solution for access control, time and attendance, cafeteria plans and more. And now with custom lamination, your cards can have the ultimate in durability and security.

## Add lamination for card durability and security.

The Card Lamination Module can easily be added to your HDP800 Series printer/encoders, either now or in the future. The Card Lamination Module applies clear or holographic overlaminate to the front and/or back of virtually any size or type of card — all in the same pass as your printing and encoding!

If you need the highest quality printing, the sophistication of e-card encoding, and the security and durability of lamination, the FARGO HDP800 Series is your solution.

HDP800 Series	Input Hoppers	Card Capacity	Accepted Card Sizes	SmartGuard*	Encoding Modules**	Lamination Module
<b>Dual-Sided Card Printer/Encoders</b>						
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

\* 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.

## HDP825-LC High Definition Printer/Encoder with Card Lamination Module

Card Lamination Module provides single- or dual-sided lamination.

LED Control Panel provides direct control of lamination for simultaneous operation of lamination and printing.

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

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

Adjustable Card Flatteners eliminates card bowing.

The HDP825-LC identifies errors and sends incomplete or improperly encoded cards to the Reject Card Hopper. Clear door shows instant status.

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

# DTC500 Series

## The most versatile and compact solution for printing, encoding and laminating plastic cards.

The FARGO DTC500 Series is expertly engineered, yet surprisingly simple. They offer the printing and encoding features you need for high-volume or on-demand applications such as employee access cards, membership cards, student IDs or loyalty cards. And now we've added laminating capability to the DTC515 and DTC525 models. Our new Card Lamination Module lets you laminate your printed and encoded cards for maximum durability and security.



DTC525  
Card Printer/Encoder

## Fast and highly versatile printer/encoders.

You'll be impressed with the speed and simplicity of the DTC500 Series. These quiet workhorses handle CR-80 cards from 10 mil to 50 mil thick, and they can print 133 color cards, or over 500 monochrome cards, per hour! Plus, long-lasting, drop-in ribbons let you print up to three times as many cards as competitive printers. They also feature plug-and-print setup and simple operation thanks to the SmartScreen LCD Control Panel.

No other direct-to-card printer can match their print performance and encoding technology. The DTC500 Series feature the finest direct-to-card print quality available. They can print and encode/read a card with up to three different e-card technologies, plus a magnetic stripe! This includes proximity cards (read only), contact and contactless smart cards.

The modular DTC500 Series is perfect for your high-volume and on-demand card applications.

DTC500 Series	Input Hoppers	Card Capacity	Security Package*	Encoding Modules**	Lamination Module
<b>Single-Sided Card Printer/Encoders</b>					
DTC510	1	100	N/A	Optional	N/A
DTC515	2	200	Included	Optional	Optional
DTC515-LC	2	200	Included	Optional	Included
<b>Dual-Sided Card Printer/Encoders</b>					
DTC520	1	100	N/A	Optional	N/A
DTC525	2	200	Included	Optional	Optional
DTC525-LC	2	200	Included	Optional	Included

\* DTC500 Series Security Package includes Card Hopper Lock, SmartGuard and SmartShield.  
 \*\* Encoding Modules include a choice of: magnetic stripe card, contact smart card and contactless smart card encoders and/or proximity card reader.

## Revolutionary lamination module makes it easier than ever to have secure and durable cards.

FARGO offers you the option of adding single- or double-sided lamination — even after you've made your purchase! You can order a DTC525-LC with the Dual-Sided Lamination Module, or the DTC515-LC with Single-Sided Lamination Module factory-installed. Or, order a standard DTC525 or DTC515, and add the module when your needs change.

The DTC515 and DTC525 models also feature a standard printer security package that helps eliminate counterfeit cards.

If you need a card printer/encoder that's versatile, reliable and easy-to-operate, the DTC500 Series is for you.

## DTC525-LC Direct-to-Card Printer/Encoder with Card Lamination Module

LED Control Panel provides direct control of Lamination Module for simultaneous laminating and printing.

The DTC525-LC identifies errors and sends incomplete or improperly encoded cards to the Reject Card Hopper. Clear door shows status instantly.

Intuitive SmartScreen LCD Control Panel displays helpful messages such as when to add cards and change ribbon.

Access door with window lets you view remaining card supply, while keeping blank cards dust-free.

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

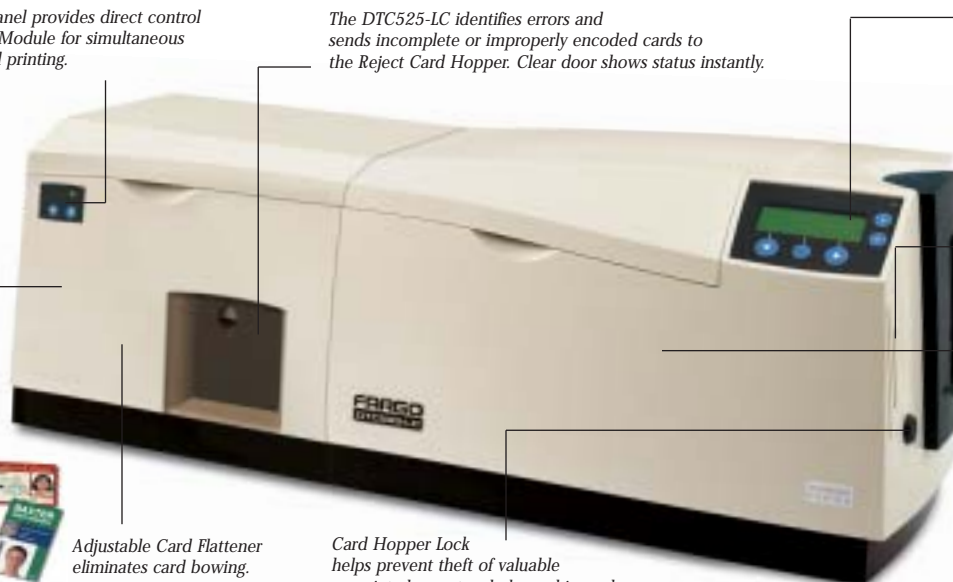
Tape-based Card Cleaning System removes debris better and lasts far longer than competitive cleaning systems.

True Exception Card Feed allows you to manually feed and print a single card without interrupting printer/encoder operation.

Card Lamination Module provides single- or dual-sided lamination.

Adjustable Card Flattener eliminates card bowing.

Card Hopper Lock helps prevent theft of valuable preprinted, smart or holographic cards.



# CARDJET 410

## Printing professional-looking plastic cards is now inkjet-easy!

Featuring FARGO's exclusive CardJet Printing technology, the CardJet 410 is the world's first printer/encoder able to print on plastic cards with highly-specialized thermal inkjet technology. Why mess with labor-intensive cut-and-paste systems? With the new CardJet 410, you can affordably print professional-looking cards without any hassle or training. That's because it works like the inkjet printer in your home or office. SmartLoad Cartridges click easily into place. Just drop in the SmartLoad Card Cartridge. Snap in the SmartLoad Ink Cartridges. And print!

## It's virtually maintenance-free!

The reliable Hewlett-Packard inkjet-based print engine of the CardJet 410 enables it to print one or hundreds of cards per day, each with the same great-looking results. Helpful onscreen messages tell you when to add cards or ink, eliminating the surprise of empty consumables. An ink-level gauge in the printer driver even shows you how many prints remain.

## Add encoding for greater functionality.

By adding an optional magnetic stripe encoder, you can enhance your operations for access control, membership, time and attendance, meal plans and more. You can order the encoder pre-installed today, or with our field installation kit, upgrade later when your needs grow. It's simple and quick!

CardJet Ink is applied via a specialized inkjet-based print engine.

FARGO CardJet Printing technology enables inkjet printing on plastic cards.

Ink bonds and dries instantly on specially formulated FARGO CardJet Cards.



## The Advantages of FARGO CardJet Printing Technology

FARGO's new CardJet Printing technology delivers the ease, reliability and affordability of inkjet printing to plastic cards. With the CardJet 410, you can print professional-looking plastic cards with no trouble or training!

## Hassle-free, professional-looking cards that last!

Don't settle for cards made from cut-up photographs. The CardJet 410 delivers full-color, over-the-edge printing on a single-sided card in as fast as 26 seconds! At 600 dpi, your photos, graphics, text, and bar codes will look razor-sharp. Because CardJet ink bonds and dries instantly to specially formulated CardJet Cards, there's no smearing or mess. CardJet Cards also stand up to abrasion, dye-migration, and UV fading better than traditional cards.

If you want professional-looking cards with no hassles, the user-friendly CardJet 410 is for you!


## CARDJET 410 Printer/Encoder



SmartLoad Ink Cartridges load easily for simple, one-way installation.

SmartLoad Card Cartridge installs easily from the top for error-proof loading.

Intuitive controls and on-screen messages signal when to change cards or ink.

inkjet technology by  CardJet Printing technology and an HP inkjet-based print engine ensures virtually maintenance-free reliability.

Transparent access window for convenient viewing of print status; opens wide for easy loading of SmartLoad Ink Cartridges.

Internal Card Output Hopper neatly stacks and protects printed cards.



# Protect your investment. Go with FARGO Certified Supplies.



**Specially engineered to ensure maximum performance and reliability.**

Quality. Innovation. Unmatched reliability and performance. All the advantages that have made FARGO Card Personalization Systems bestsellers worldwide make FARGO Certified Supplies the best choice for your FARGO Card Printer/Encoder.

From efficient, drop-in ribbons, SmartLoad Cartridges and highly secure overlaminates to attention-grabbing oversized cards, all FARGO Certified Supplies are specially engineered and rigorously tested to maximize the performance of your FARGO Card Printer/Encoder. For superior card quality, long-lasting printhead life and steadfast printer/encoder performance, there's simply no more dependable and cost-effective combination. So when you go with a FARGO Card Printer/Encoder, protect your investment. Go with FARGO Certified Supplies.



**FARGO®**  
CERTIFIED SUPPLIES

**Contact your authorized FARGO integrator about FARGO Certified Supplies today.**

**Dye-Sub/Resin Combination Ribbons**

*Perfect for printing full-color cards with resin black text and visible-light and infrared-readable bar codes. Available in YMCK, YMCKO, YMCKH, YMCKK and YMCKOK ribbons.*



**Resin Ribbons**

*The economical solution for printing single-color cards with sharp text and crisp bar codes. Available in Standard or Premium Black, White, Blue, Red, Green, Metallic Gold, Metallic Silver and Scratch-off.*



**Dye-Sublimation Ribbons**

*Custom ribbons smoothly blend up to 16.7 million colors to produce vivid, photo-quality images. Available in YMC and Black/Overlay ribbons.*



**HDP Film**

*Graphics and text are printed to underside of HDP Film which is then fused to the surface of the card through heat and pressure. Consistently produces the best print quality available. Required for HDP800 Series Card Printer/Encoders only.*



**PolyGuard Overlaminates**

*Designed to give you the ultimate in secure and durable card protection. Available in clear or with generic or custom holographic security images.*



**SmartLoad Ink and Card Cartridges**

*Specially formulated CardJet Ink available in full-color and black cartridges. CR-80 CardJet Cards available in 100-card cartridges. SmartLoad Cartridges available for CardJet printer/encoders only.*


























**Cards**

*A vast array of high-quality blank UltraCard Cards and magnetic stripe cards for FARGO printer/encoders. Available in CR-79, CR-80, CR-90, and CR-100 sizes.*



Your authorized FARGO integrator can customize a card personalization system that meets your current and future needs.

Features		HDP800 Series	DTC500 Series	CARDJET 410
	<b>Print Method</b>	HDP dye-sub/resin thermal transfer	DTC dye-sub/resin thermal transfer	Thermal inkjet
	<b>Color Capability</b>	Full-color	Full-color and monochrome	Full-color
	<b>Print Speed*</b>	38 seconds (YMCK)** 66 seconds (YMCKK)** HDP820-LC/825-LC: 40 seconds (YMCK/lam)**	27 seconds (YMCKO)** DTC520/525/525-LC: 35 seconds (YMCKOK)** DTC525-LC: 30 seconds (YMCK/lam)**	26 seconds - Fast Print 42 seconds - Normal Print 76 seconds - Best Print
	<b>Printing Sides</b>	Dual-sided	Dual-sided: DTC520/525/525-LC Single-sided: DTC510/515/515-LC	Single-sided
	<b>Magnetic Stripe Option</b>	Dual high-/low-coercivity; JIS-II	Dual high-/low-coercivity; JIS-II	High-coercivity (Field installable)
	<b>E-Card Docking Station Option</b>	Yes	Yes	
	<b>Contact Smart Card Encoder Option</b>	ISO 7816 - 1/2/3/4 (T=0, T=1)	ISO 7816 - 1/2/3/4 (T=0, T=1)	
	<b>Contactless Smart Card Encoder Option</b>	MIFARE®	MIFARE®	
	<b>Proximity Card Encoder Option</b>	HID (Read only)	HID (Read only)	
	<b>Built-In Lamination</b>	HDP820-LC/HDP825-LC: Yes HDP820/825: Field installable option	DTC515-LC/DTC525-LC: Yes DTC515/525: Field installable option	
	<b>SmartShield Card Security</b>		DTC515/515-LC/525/525-LC: Yes	
	<b>SmartGuard Printer Security</b>	HDP820/HDP820-LC: Yes	DTC515/515-LC/525/525-LC: Yes	
	<b>Card Hopper Capacity</b> (CR-80, 30 mil cards)	HDP820/HDP820-LC: 250 HDP825/HDP825-LC: 200	DTC515/515-LC/525/525-LC: 200 DTC510/520: 100	100
	<b>Card Hopper Lock</b>		DTC515/515-LC/525/525-LC: Yes	
	<b>Reject Card Hopper</b>	HDP820-LC/HDP825-LC: Yes	DTC515-LC/525-LC: Yes	
	<b>High Volume Printing</b>	Yes	Yes	
	<b>Networking Option</b>	Yes	Yes	
	<b>Card Cleaning</b>	Yes	Yes	Not applicable
PC/MAC	<b>Compatibility</b>	PC	PC/Mac	PC
	<b>Print Area</b>	Over-the-edge	Edge-to-edge	Over-the-edge
	<b>SmartScreen LCD</b>	Yes	Yes	
	<b>Interface</b>	Parallel (Optional USB-to-Parallel cable available)	Parallel Serial for embedded font/bar code option (Optional USB-to-Parallel cable available)	USB 1.1 or greater
	<b>Accepted Card Sizes</b>	HDP820/HDP820-LC: CR-80, CR-90 and CR-100 HDP825/HDP825-LC: CR-80	CR-80	CR-80 CardJet Cards
	<b>Supplies</b>	HDP Print Ribbons, HDP Film, UltraCard Cards, PolyGuard Overlaminate	DTC Print Ribbons UltraCard Cards PolyGuard Overlaminate	SmartLoad Ink Cartridges SmartLoad Card Cartridge

\* Print speed indicates an approximate batch print speed and is measured from the time a card feeds into the printer/encoder to the time it ejects from the printer/encoder. Printer/encoder speeds do not include 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 for the HDP820/825, single card print speeds will be slower than the batch print speeds listed above since batch print speed is enhanced by the printer/encoder's multi-tasking capabilities when printing multiple cards in succession.)

\*\*Indicates the ribbon type and the number of ribbon panels being printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, B=Dye-Sub Black and O=Overlay

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