



XID 8x00 printer range
Key benefits against HID-Fargo HDP 5000

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1. Product range

There are two products in the HID-Fargo ReTransfer printer range

- HDP 5000: Entry to Medium applications, including lamination (revamped in 2013)
- HDP 8500: High-End secure printer, including lamination and laser engraving (first deliveries April 2013)

Only HDP 5000 will be considered in this document. Comparison between XID 8x00 and 9x00 against HDP 8500 will be part of another document.

Main changes on HDP 5000 revamped version are:

- Improved printing engine also used for HDP 8500
- 2 x 100-card feeder option
- 3-year warranty
- Some cosmetics changes on housing and color

Overall the product remains the same, very successful for entry level applications, but facing some difficulties to issue batches and high quantities of cards:

- No card de-bower in the printer, even as an option
- A lot of card jam and card rejection
- Printer almost defective after 20K-25K cards

In any case, HDP 5000 is definitely the leader in units sold: about 11,500u in 2013 worldwide, which is around 60% of the entire market.

1.1 HDP 5000 modularity

The printer is based on modules that can be connected together to build a full configuration. Most of them are field upgradable:

- Printing module with 100-card input hopper (or 2 x 100-card hopper), magnetic and chip encoders
- Flip-over module also used to host an additional chip encoder
- Single/ Dual lamination module
- Exit hopper (200-card)

1.2 Feature set

HDP 5000 should be compared to XID 8x00 printers.

	Matica Technologies XID 8100	HID Fargo HDP 5000	Matica Technologies XID 8300
OEM SOURCE			
Manufacturer	JVC-Kenwood		JVC-Kenwood
PRINTING			
Simplex	✓	✓	✓
Duplex	Opt	Opt	Opt
Resolution (<i>Printing Head</i>)	300 x 300	300 x 300	300 x 300
Bending remedy	Opt	x	✓
LAMINATION			
Simplex	Opt	Opt	Opt
Duplex	Opt	Opt	Opt
Duplex: // or Flip-over	//	//	//
LASER ENGRAVING			
Laser technology	x	x	x
CLI/ MLI	x	x	x
Duplex	x	x	x
Camera	x	x	x
PERFORMANCE			
Printing	YMCK: 102 cph	YMCK: 124 cph YMCKK: 90 cph	YMCK: 102 cph
Lamination	NC	YMCK+L: 102 cph YMCKK+L: : 75 cph	NC
HOPPERS			
Input	200 c	100 c Opt: 1 x 200 c Opt: 2 x 100 c	200 c
Output	100 c	200 c	100 c
Exception	x	x	x
Reject	Reject path only	x	Reject path only
ENCODING OPT.			
Magnetic	ISO 3-track	ISO 3-track	ISO 3-track
Contact station	ISO 7816	ISO 7816	ISO 7816
Contact encoder	✓	✓	✓
RFID encoder	✓	✓	✓
Dual encoder	x	✓	x
Encoding over IP	Opt	Opt	Opt
CONNECTIVITY			
USB	✓	✓	✓
TCP/IP	✓	✓	✓
MONITORING			
Display	Color-coded graphical LCD	2 x 16 chars LCD	Color-coded graphical LCD
Software Monitor	Printer Manager	SmartScreen	Printer Manager

	Matica Technologies XID 8100	HID Fargo HDP 5000	Matica Technologies XID 8300
SECURITY			
Kensington	✓	✓	✓
Locker	Electronic	Opt: Key Lock	Electronic
Password	✗	✓	✗
UV printing	✗	✓	✓
MISCELLANEOUS			
Printer's warranty	24 months	36 months	36 months
Printhead's warranty	Lifetime	Lifetime	Lifetime
TRANSFER FILM			
Clear	1,000 l (SRT)	1,500 i	1,000 i
Holographic	✗	500 i	✗
COLOR RIBBON			
YMC	✗	750 i	✗
YMCK	1,000 l (SRT)	500 i	1,000 i
½ YMCK	✗	1,000 i	✗
YMCUvK	✗	500 i	750 i
YMCK-K	✗	500 i	750 i
YMCKPo - YMCKI	✗	500 i	750 i
YMCKH	✗	500 i	✗
YMCK-KI	✗	✗	✗
MONO. RIBBON			
K (Resin)	✗	3,000 i	✗
OVER LAMINATES			
Thin varnish			
Clear	1,250 i	500 i	1,250 i
Holographic	1,000 i	500 i	1,000 i
Start position marking	✗	✗	✗
Patch 0.5 mil - 0.6 mil			
Clear	550 i (0.5 mil)	250 i	550 i (0.5 mil)
Holographic	550 i (0.6 mil)	250 i	550 i (0.6 mil)
Alternate cut	✗	✗	✗
Patch 1.0 mil			
Clear	550 i	250 i	550 i
Holographic	550 i	250 i	550 i
Alternate cut	✗	✗	✗

Design and architecture:

- The XID printers benefit from higher class components and a more sophisticated design aimed at offering a long printer's lifespan:
 - Metallic frame and assembly
 - Stronger plastic parts
 - Higher quality LCD, color-controlled
 - Japanese finishing
- HDP 5000 Simplex width is a bit lower than XID simplex printers, but adding Duplexer or/ and Laminating unit makes it significantly wider on a table. XID 8x00 is squared and compact

Performance:

- HDP 5000 is close to XID 8100 and XID 8300 in terms of performance.
- However, instead of considering printing speed, it is important to consider the printer's throughput (i.e. card per day, per month):
 - XID 8x00 will have less downtime due to operator activity thanks to its bigger card feeder and its ribbon capacity (twice bigger in YMCK which is the most popular consumable set)
 - Thanks to its printing engine design avoiding card jams, the XID production won't face any significant interruption, which is one of the known weaknesses of the HDP 5000.
 - There is no bend remedy solution on HDP 5000 (only with lamination unit), the XID may host the Bend Remedy option when printing single-side
 - The card volume produced a day will be much higher with a XID 8x00 printer thanks to no interruption

Encoding:

- Encoding features are similar, same flexibility in terms of upgrade and providing the same kind of feature.
- Both printers do offer the Omnikey 5121, HID offering some alternate encoders. XID printers may host other types of encoders if required thanks to its internal USB-Hub

Connectivity:

- Both printers support USB and TCP/IP
- HID-Fargo offers a solution for IP chip encoding based on an integrated print server (usually offering very limited control regarding chip encoding process and status)



Lamination:

- Both printers support a single-sided or parallel dual-sided lamination
- Here again, the consumable capacity is twice higher on the XID printers

Durability:

- Considering the track record of both product, available in the market for years, it is absolutely clear that XID printers are designed to last
- HDP 5000 is known to last 'til 20K-25K cards produced when a XID printer is built to last 'til 80K-100K cards

2. Key product features

- **Designed for heavy-duty operation:** metal frame, plastic robustness, hopper capacity, bend remedy solution
- **Less operator maintenance, higher throughput:**
 - Bend remedy to ensure card quality
 - Almost no card jam during production
 - High-capacity feeder
 - High capacity ribbons, transfer films and laminates
- **Highly-featured base configuration:**
 - Color-controlled LCD
 - Electronic lockers
 - 200-card feeder
 - Ready to host Flip-Over and Encoder (no additional station)
- Designed for **Batch production**
 - High throughput
 - Printer reliability
 - Finished cards with even quality, from day one, for years
- **Scalable product range**
 - Three products offering a scalable range of features
 - Same training and operation
 - Same options
 - Aimed at offering the right product for the right application, from basic printing needs to highly secure card system



3. Pricing

Pricing in USD

	Matica Technologies		HID-Fargo
	<i>In USD</i>	XID 8100	XID 8300
PRINTERS			
Simplex		4,095	4,895
Duplex		5,295	5,995
WARRANTY			
Printer warranty		2-Year	2 or 3-Year <i>depending on Regions</i>
OPTIONS			
Bend Remedy		495	495 <i>Included in Simplex model in some Regions</i>
Magnetic encoding		895 <i>Requires Flip-Over</i>	895 <i>Requires Flip-Over</i>
Contact chip encoding		790	790
Contactless chip encoding		995	995
Dual chip encoding		N/A	N/A
Locking system		<i>Included</i>	<i>Included</i>
200-card feeder		<i>Included</i>	<i>Included</i>
2 x 100-card feeder		N/A	N/A
Flip-Over		1,395	1,395
LAMINATOR			
Simplex		2,995	2,995
Duplex		3,995	3,995
COST PER CARD			
Clear Transfer film		0,099 (SRT)	0,150
YMCK		0,390 (SRT)	0,425
YMCK-K		N/A	0,567
YMC		N/A	N/A



Pricing in EUR (calculated from USD price @ 1,35 for HID-Fargo products)

	Matica Technologies	Matica Technologies	HID-Fargo
<i>In EUR</i>	XID 8100	XID 8300	HDP 5000
PRINTERS			
Simplex	2,990	3,395	2,960
Duplex	3,890	4,310	3,700
WARRANTY			
Printer warranty	2-Year	2 or 3-Year <i>depending on Regions</i>	3-Year
OPTIONS			
Bend Remedy	385	385 <i>Included in Simplex model in some Regions</i>	N/A
Magnetic encoding	565 <i>Requires Flip-Over</i>	565 <i>Requires Flip-Over</i>	444
Contact chip encoding	935	935	740
Contactless chip encoding	775	775	740
Dual chip encoding	N/A	N/A	740
Locking system	<i>Included</i>	<i>Included</i>	<i>Printer: 74 Laminator: 74</i>
200-card feeder	<i>Included</i>	<i>Included</i>	221
2 x 100-card feeder	N/A	N/A	666
Flip-Over	935	935	740
LAMINATOR			
Simplex	2,195	2,195	1,852
Duplex	2,985	2,985	2,593
COST PER CARD			
Clear Transfer film	0,075 (SRT)	0,105	0,064
YMCK	0,290 (SRT)	0,320	0,310
YMCK-K	N/A	0,347	0,370
YMC	N/A	N/A	0,227



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