

# DIGIFlex

The Most Versatile Digital Printer



## UNIQUE TECHNOLOGY

Magnetography  
and cold flash fusing

## VARIABLE SPEED

Flexibility, quality  
and availability

## MULTI-SUPPORTS

Wide variety  
of printed materials

## PRODUCTIVITY

Quick return  
on investment

# A TECHNOLOGY WITH COLD FLASH FUSING

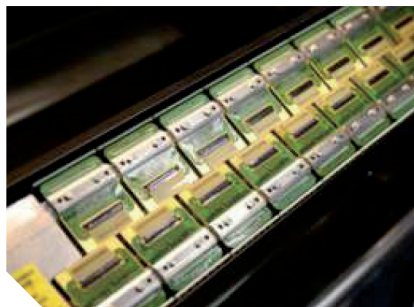
**DIGIFlex** printing solution offers the best value for printing variable data in black on most substrates. This outstanding feature uses compact and productive magnetic technology: Magnetography.

## Main components :

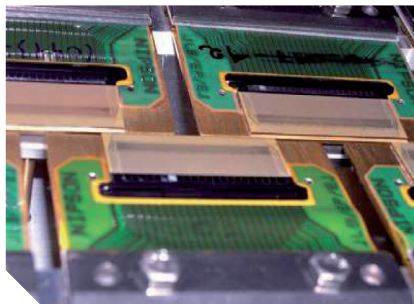
- Monocomponent magnetic toner (no developer)
- Print cylinder with magnetic recording layers
- 18 high-resolution heads (600 dpi) with printable width up to 468.5 mm (18.45 inches)

## Advantages :

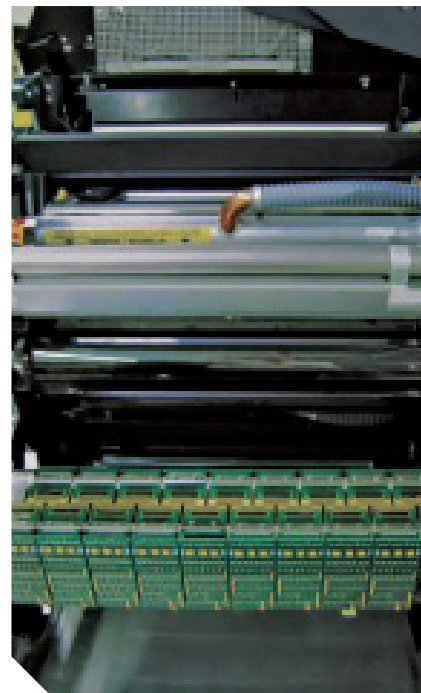
- Low-temperature with cold flash fusing (<50°C) without contact and without substrate stress
- Native MICR printing (E13B and CMC7)
- Tamper-proof print



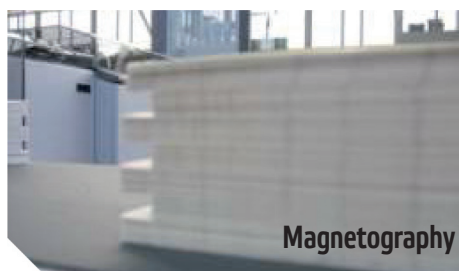
▲ Printing width 468,5 mm (18,45 inches)



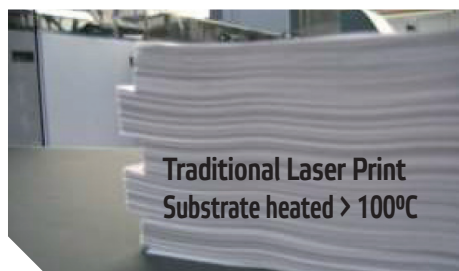
▲ Magnetic write head



▲ Ultra-hard print cylinder, dedicated High Tech processors



Magnetography



Traditional Laser Print  
Substrate heated > 100°C

## DIGIFlex is extremely productive !

- ▶ It delivers a print speed of up to 104m/min (341 feet /min).
- ▶ With web width up to 520 mm (20.5 inches) and printable width up to 468.5 mm (18,45 inches) equivalent to :
  - 700 A4 pages per minute in two-up simplex mode or
  - 1,400 A4 pages per minute in two-up duplex mode.
- ▶ And allows the printing of texts, bar-codes and images on the widest possible range of substrates.
- ▶ Since the toner is fused without heating the substrate, there is no risk of drying, warping, shrinkage or other degradation.

# The Unique Process

**Magnetography combined with cold flash fusing allows toner to penetrate into the substrate without heating it** (maximum substrate temperature < 50°C)

- No heat
- No drying
- No substrate deformation
- No water evaporation
- No static electricity
- No humidification needed

The toner is **MAGNETIZED**  
then **FUSED** at low temperature,  
**without contact**  
of a pressure roller  
onto the substrate.



**Black MICR Toner or  
FLUORESCENT MICR Toner  
as an option.**

# VARIABLE SPEED, FLEXIBILITY, QUALITY

**DIGIFlex** comes with Nipson's unique variable speed option. It automatically adjusts the printing speed to synchronize with data flow rate and finishing equipment. This avoids unnecessary starts and stops, reduces waste, ensures a cost-effective continuous production. It allows operator-controlled variable speed settings, in order to deliver optimum print quality on the needed substrate.

The combination of pinfed or pinless (option) along with the variable speed feature enables a wide variety and a large flexibility of use.

**The choice**

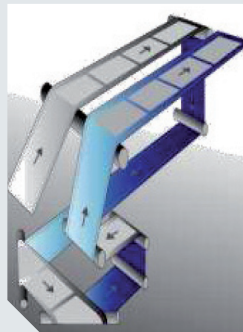
## Flexible by nature, **DIGIFlex** can be used in many different configurations

- Simplex ● Single Engine Duplex (SED) – Duplex using a single printer ● Twin Engine Duplex (TED) – Duplex using two printers

In TED mode, you can couple the printers in different configurations : **I, L, U, S or Z** (see following diagrams)

### Duplex with a single **DIGIFlex**

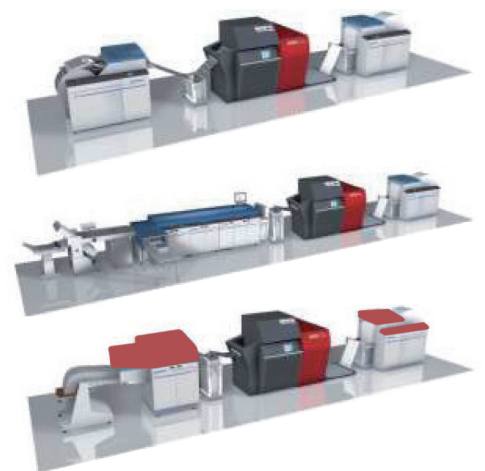
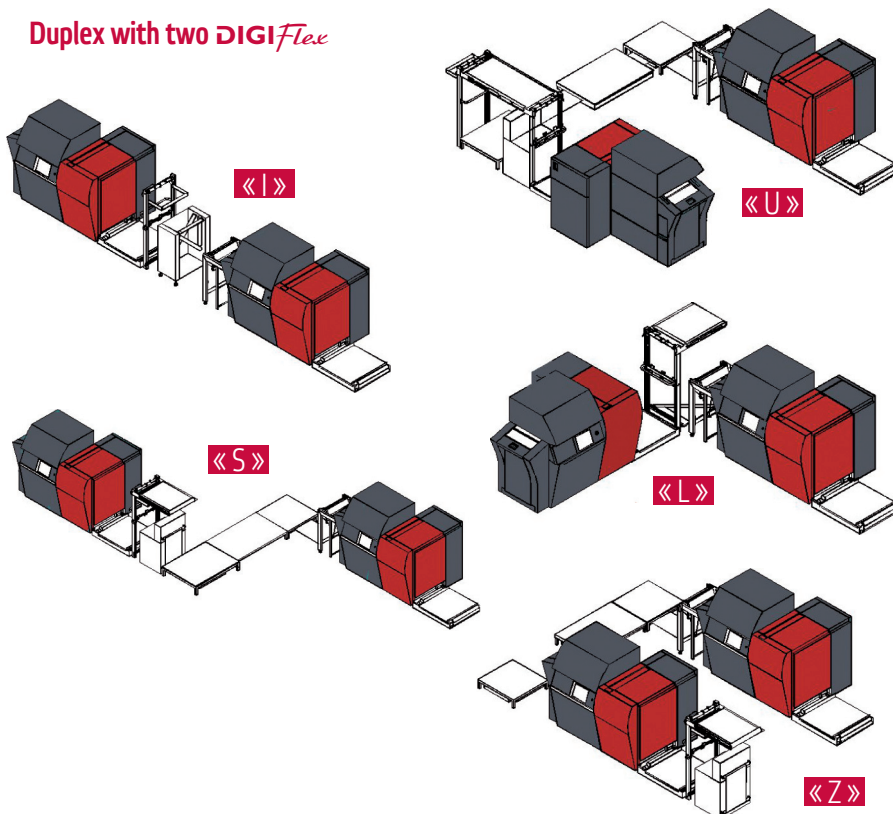
- Printing speed : 30 to 81,7m/min (98 to 268 feet/min)
- Pinfed mode only
- Paper weight : 64 to 160g/m<sup>2</sup> limited to 120g/m<sup>2</sup> for fanfold paper
- Duplex control sensor
- Able to print full width in simplex mode 468,5mm (18,45 inches)
- Paper width : 251 mm (9.9 inches)



## The Advantages

- ▶ Undoubtedly the fastest SED system on the market
- ▶ A true alternative to sheet printers as it offers higher productivity solution with lower cost per page
- ▶ Small footprint for a Duplex solution
- ▶ Security and cost efficiency for Duplex printing
- ▶ Capacity to print in simplex mode two paper webs

### Duplex with two **DIGIFlex**



Its design and variable speed enable **DIGIFlex** to be used in different environments. It is easily integrated with existing pre and post processing equipment currently on the market.

### Print Quality

Magnetography is a mature technology. It has no competition with regards to possibilities for printing on wide variety of substrate types.

**DIGIFlex** combines with other developments using a new paper cleaning station and temperature regulation module to offer optimum 600 dpi quality at speeds up to 104m/min.

# VARIETY OF PRINTED SUBSTRATES, PRODUCTIVITY

**DIGIFlex** prints on a vast number of substrate types including coated and uncoated papers, labels, plastics, polyester, aluminum, papers with hologram, as well as thermosensitive papers.

The printer will handle substrates as fragile as 40 gsm or as heavy as 300 gsm using «heavy paper» option.

## ► Security and Identification

*A prominent leader in the security market*



With its magnetic toner **DIGIFlex** naturally prints MICR, allowing the combination of standard applications of CMC7 or E13B, without having to change toner.

Native CMC7 and E13B enables secure printing of bank checks, letter checks, gift cards, meal vouchers and other such modes of payment.

Other security features are also available such as fluorescent toner, viewable only under UV lamp, and micro fonts prints.

**DIGIFlex** is as versatile as it is flexible. It allows the fulfillment of printing to all applications with high added value, yet eliminates the long and costly changes.

## ► Direct Marketing

*A great variety of applications, for basic or complex documents :*

- Whatever the file size, the quality of substrate or the format of the print, **DIGIFlex** gets the job done fast while minimizing paper waste and time.
- The variable and progressive speed allows an easy integration of all finishing equipment with **DIGIFlex**.

As options, **DIGIFlex** has a large range of adapted software solutions for document composition and editing as well as for automatic camera print control.



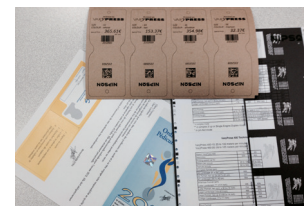
## ► Substrates

*Examples of special solutions*

- Plastic film for packaging
- Card stock for lottery and other ticketing
- Pharmaceutical notices on thin paper
- Security papers for checks, vignettes and other secured documents
- Metalized substrates
- Books

Specific projects for food industry, magnetic printing, and other uniques may require validation by NIPSON Technology Engineering Research.

**DIGIFlex** printer is a robust, mature and flexible product. When paired up with the versatility of Nipson Technology, personalized leasing solutions can be implemented to secure a fast return on your investment.



|  | DIGIFlex   | DIGIFlex with speed option  | DIGIFlex TED   | DIGIFlex TED with speed option  |
|--|--|---|--|---|
| <b>TECHNOLOGY</b>  |  |   |  |   |
| ▶ PRINTING TECHNOLOGY  | MAGNETOGRAPHY  |   |  |   |
| ▶ FUSING METHOD  | COLD FLASH FUSING  |   |  |   |
| ▶ RESOLUTION (DPI)   | 600  |   |  |   |
| ▶ PAPER MANAGEMENT   | PINFED TRACTORS  |   |  |   |
| <b>PERFORMANCES</b>  |  |   |  |   |
| ▶ METERS PER MINUTE  | 30 TO 81,7   | UP TO 104   | 30 TO 81,7   | UP TO 104   |
| ▶ FEET PER MINUTE  | 98 TO 268  | UP TO 341   | 98 TO 268  | UP TO 341   |
| <b>European format (ipm)</b>                                     |  |   |  |   |
| ▶ A4 LANDSCAPE (29,7x21cm)                                       | 388  | 495   | 776  | 990   |
| ▶ A4 PORTRAIT, TWO UP 2 x (21 x29,7 cm)                          | 550  | 700   | 1 100  | 1 400   |
| ▶ A4 PORTRAIT, ONE UP (21 x 29,7 cm)                             | 275  | 350   | 550  | 700   |
| ▶ A3 LANDSCAPE (42 x 29,7 cm)                                    | 275  | 350   | 550  | 700   |
| <b>American format</b>   |  |   |  |   |
| ▶ LETTER LANDSCAPE (11 x 8,5 INCHES)                             | 378  | 482   | 756  | 964   |
| ▶ LETTER PORTRAIT, TWO UP 2 x (8,5 x 11 INCHES)                  | 585  | 745   | 1 170  | 1 490   |
| ▶ LEGAL LANDSCAPE (14 x 8,5 INCHES)                              | 378  | 482   | 756  | 964   |
| ▶ LEGAL PORTRAIT, TWO UP 2 x (8,5 x 14 INCHES)                   | 458  | 585   | 916  | 1 170   |
| ▶ LEDGER LANDSCAPE (17 x11 INCHES)                               | 292  | 373   | 584  | 746   |
| <b>PRINT FORMAT</b>  |  |   |  |   |
| ▶ PRINTING WIDTH   | 6,5 TO 18,45 INCHES (468,5 MM)   |   |  |   |
| ▶ PRINTING LENGTH IN STANDARD CONFIGURATION                      | 3 TO 36 INCHES (75 TO 915 MM)  |   | 6 TO 28 INCHES (152 TO 711 MM)                           |   |
| <b>PRINT MEDIA</b>   |  |   |  |   |
| ▶ PAPER INPUT  | PAPER WITH TRACTOR PERFORATIONS (ROLL OR FANFOLD FORMAT)   | PAPER WITH TRACTOR PERFORATIONS (ROLL OR FANFOLD FORMAT) FANFOLD ALLOWED UP TO 90M/MIN. | PAPER WITH TRACTOR PERFORATIONS (ROLL OR FANFOLD FORMAT) | PAPER WITH TRACTOR PERFORATIONS (ROLL OR FANFOLD FORMAT) FANFOLD ALLOWED UP TO 90M/MIN. |
| ▶ MEDIA WIDTH  | UP TO 20,5 INCHES (520 MM)   |   |  |   |
| ▶ MEDIA WEIGHT   | 64 TO 160 GSM (LIMITED TO 120 GSM WITH FANFOLD FORMAT)   |   |  |   |
| <b>CONNECTIVITY</b>  |  |   |  |   |
| ▶ STANDARD   | NETWORK/TCP/IP: NIPSON PRINTSERVER (AFP, TIFF, PS, PDF, NPP)   |   |  |   |
| ▶ OPTION   | NETWORK/TCP/IP: IPDS PAGE PRINTER EMULATION WITH IPDS LICENCE  |   |  |   |
| <b>DIMENSIONS</b>  |  |   |  |   |
| ▶ WIDTH  | 62,8 INCHES (1 600 MM)   |   |  |   |
| ▶ LENGTH   | 133,8 INCHES (3 400 MM)  |   |  |   |
| ▶ HEIGHT   | 67,6 INCHES (1 720 MM)   |   |  |   |
| ▶ WEIGHT   | 2 645 LB (1 200 KG)  |   |  |   |
| <b>POWER REQUIREMENTS</b>  |  |   |  |   |
| ▶ 400 VAC - 3 PHASES - 50 HZ/60HZ                                | 35 A   | 45 A  | 70 A   | 90 A  |
| ▶ 208 VAC - 3 PHASES - 60HZ + EXTERNAL TRANSFORMER (208V > 400V) |  |   |  |   |
| ▶ ELECTRICAL AVERAGE POWER CONSUMPTION                           | 15 kW  | 19 kW   | 30 kW  | 38 kW   |
| <b>OPTIONS</b>   |  |   |  |   |
| ▶ PINLESS MODE   | ABILITY TO PRINT TRACTORLESS<br>ABILITY TO USE PAPER FROM 40 UP TO 160 GSM   |   |  |   |
| ▶ «EXTENDEDPLUS» PAPER MANAGEMENT                                | ABILITY TO USE TRACTOR OR TRACTORLESS UP TO 300 GSM  |   |  |   |
| ▶ SED  | ABILITY TO PRINT IN DUPLEX MODE ON A SINGLE PRINTER<br>▶ PAPER WIDTH : 9.9 INCHES (251 MM) ▶ PAPER LENGTH : 6 TO 28 INCHES ▶ PRINTING SPEED : 81.7 M/MIN |   |  |   |
| ▶ ST20 STACKER   | UP TO 90 METERS PER MINUTE (PAPER SIZE AND WEIGHT : PLEASE SEE OUR ST20 STACKER BROCHURE)  |   |  |   |