DIGIFlex

The Most Versatile Digital Printer

NIPSON
Technology

A TECHNOLOGY WITH COLD FLASH FUSING

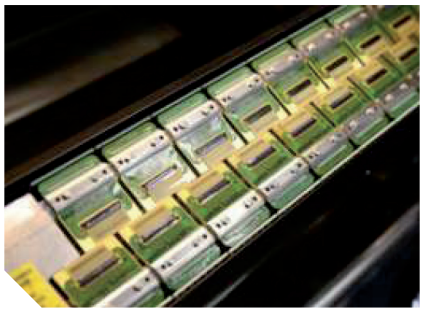
DIGIFlex printing solution offers the best value for printing variable data in black on most substrates. This outstanding feature uses compact and productive magnetic technology: Magnetography.

Main components :

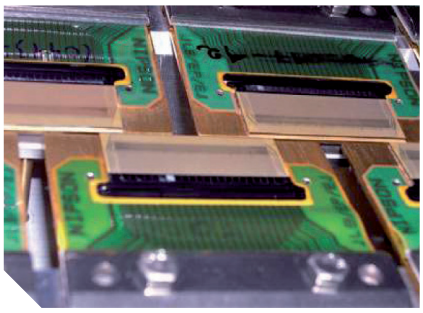
- Monocomponent magnetic toner (no developer)
- Print cylinder with magnetic recording layers
- 18 high-resolution heads (600 dpi) with printable width up to 468.5 mm (18.45 inches)

Advantages :

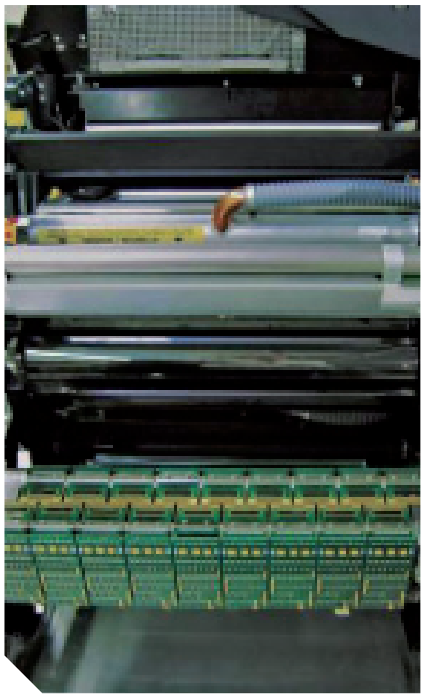
- Low-temperature with cold flash fusing (<50°C) without contact and without substrate stress
- Native MICR printing (E13B and CMC7)
- Tamper-proof print



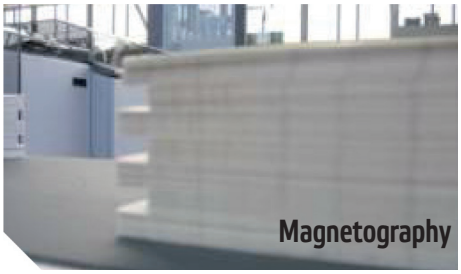
▲ *Printing width 468,5 mm (18,45 inches)*

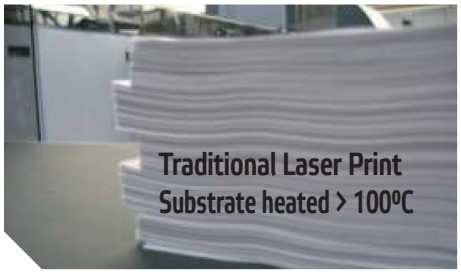


▲ *Magnetic write head*



▲ *Ultra-hard print cylinder, dedicated High Tech processors*





DIGIFlex is extremely productive !

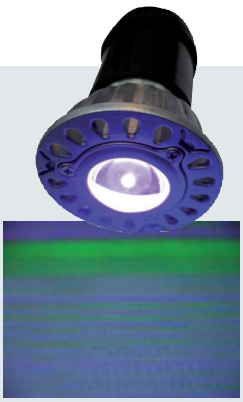
- It delivers a print speed of up to104m/min (341 feet /min).
- With web width up to 520 mm (20.5 inches) and printable width up to 468.5 mm (18,45 inches) equivalent to :
  - 700 A4 pages per minute in two-up simplex mode or
  - 1,400 A4 pages per minute in two-up duplex mode.
- And allows the printing 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

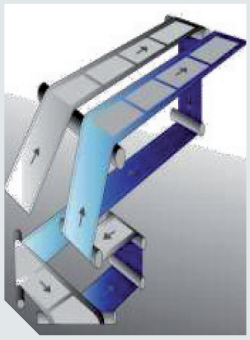
• Simplex • Single Engine Duplex (SED) – Duplex using a single printer • Twin Engine Duplex (TED) – Duplex using two printers

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

The Advantages

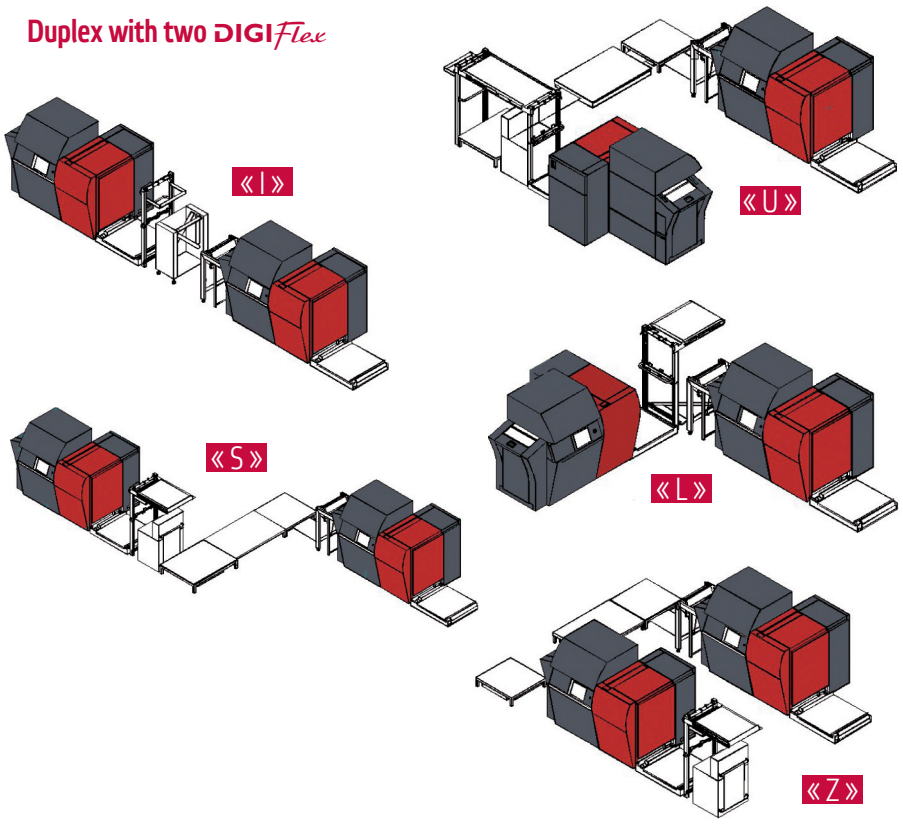
Duplex with a single DIGIFlex

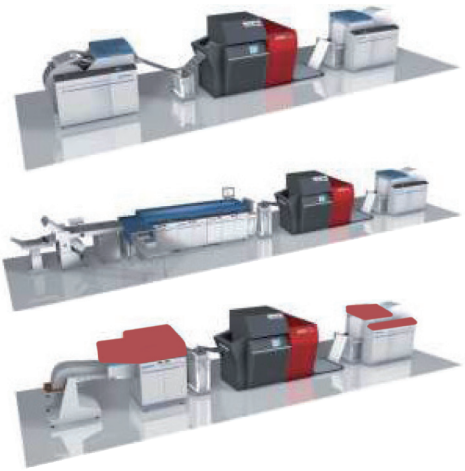
- Printing speed : 30 to 81,7m/min (98 to 268 feet/min)
- Pinfed mode only
- Paper weight : 64 to 160g/m² limited to 120g/m² for fanfold paper
- Duplex control sensor
- Able to print full width in simplex mode 468,5mm (18,45 inches)
- Paper width : 251 mm (9.9 inches)



- 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 :

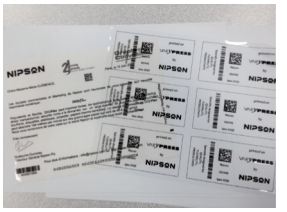
- Whatever the file size, the quality of substrate or the format of the print, DIGIFlex gets the job done fast while minimizing paper waste and time.
- The variable and progressive speed allows an easy integration of all finishing equipment with DIGIFlex.

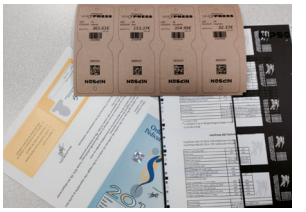
As options, DIGIFlex has a large range of adapted software solutions for document composition and editing as well as for automatic camera print control.

▶ Substrates

Examples of special solutions

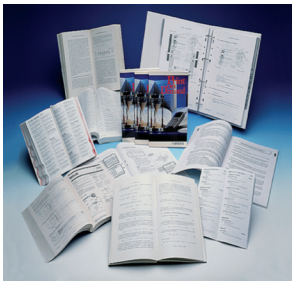
- Plastic film for packaging
- Card stock for lottery and other ticketing
- Pharmaceutical notices on thin paper
- Security papers for checks, vignettes and other secured documents
- Metalized substrates
- Books





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.



TECHNICAL SPECIFICATIONS

DIGIFlex

	DIGIFlex	DIGIFlex with speed option	DIGIFlex TED	DIGIFlex TED with speed option
TECHNOLOGY				
Printing technology	Magnetography			
Fusing method	Cold Flash Fusing			
Resolution (DPI)	600			
Paper management	Pinfed Tractors			
PERFORMANCES				
Meters per minute	30 to 81,7	up to 104	30 to 81,7	up to 104
Feet per minute	98 to 268	uo to 341	98 to 268	up to 341
European format (ipm)				
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
American format				
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
PRINT FORMAT				
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)	
PRINT MEDIA				
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)			
CONNECTIVITY				
Standard	Network/TCP/IP: Nipson PrintServer (AFP, TIFF, PS, PDF, NPP)			
Option	Network/TCP/IP: IPDS Page Printer Emulation with IPDS Licence			
DIMENSIONS				
Width	62,8 inches (1 600 mm)		According to the TED configuration : I, L, S, U or Z	
Length	133,8 inches (3 400 mm)			
Height	67,6 inches (1 720 mm)			
Weight	2 645 lb (1 200 kg)			
POWER REQUIREMENTS				
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
OPTIONS				
Pinless Mode	Ability to print tractorless 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 ▸ 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)			

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