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XIJET · MONOCHROME TIJ PRINTERS

FN · NP45 · AJAX Thermal Inkjet

Thermal Drop-on-demand · print widths up to 4.0" · Water-based and solvent inks



FN SERIES



NP45 SERIES (HP)



AJAX (EXTENDED THROW)

CONFIGURE UP TO 16 HEAD MODULES PER SYSTEM

FN Series

With unmatched speed, a longer throw distance, and the ability to print on almost any substrate, the FN Series pushes the limits of what is possible with thermal inkjet. The FN series is based on 0.5" cartridge technology from Funai (formerly Lexmark). It offers all the advantages of cartridge-based printers — economical, low-maintenance, compact, and simple to change between ink types or colors. With the FN Series, you get high performance and 600 dpi print quality at a very attractive price. XiJet offers aqueous inks for porous stocks and solvent inks for coated and non-porous stocks. You can even print on plastics and metals.

With thousands of installations across dozens of applications, you can be assured that the FN Series is reliable and has all the features you need.

NP45 Series

The NP45 Series offers the convenience and versatility you've come to expect from thermal inkjet, at an attractive price. Print heads are available in widths from 0.5" to 4.0", and multiple heads can be configured to print different regions across a page or web. The NP45 Series is based on the 600 dpi, 0.5" 45a cartridge technology from Hewlett Packard. It offers all the advantages of cartridge-based printers — economical, low-maintenance, compact, and simple to change between ink types or colors. Ink is supplied via disposable or bulk cartridges. Aqueous inks are available for porous stocks and solvent inks are available for coated and non-porous stocks.

AJAX (Extended Throw)

Thermal inkjet is well suited for printing on flat surfaces where the head can be positioned close to the substrate. Non-flat surfaces, mixed substrate thicknesses, and raised edges have always presented a problem...until now. With an ink throw distance up to 0.5", and solvent ink compatibility, the Ajax TIJ printers do what was previously achievable only with continuous inkjet (CIJ), but at a fraction of the cost, complexity, and maintenance requirements. Ajax is based on 0.5" cartridge technology, with print widths up to 4.0".

Inks

AQUEOUS INKS

- Dye-based or pigment
- More than a dozen colors; Custom color matching available (FN, NP45)
- Security inks (UV invisible, IR invisible) (FN, NP45)

SOLVENT INKS

- For non-porous materials such as coated stocks, film, plastics, metals

Front End

- XiJet Composer
- Customer Application
  via Composer Read and Print
  via Composer Remote Interface
  via XiJet API/DLL
  via XiJet RS-232 Protocol

Features

- **Fastest Thermal Inkjet** – 60% faster than HP at every resolution (FN)
- **0.5" Throw Distance** – Print on irregular objects; Competes with CIJ at a fraction of the cost (AJAX)
- **Cartridge-based** – Clean and convenient; Easy to replace cartridges (FN · NP45 · AJAX)
- **Low-cost Hardware** – Entry-level price with 600 dpi quality (FN · NP45)
- **Low-cost Hardware** – Entry-level price (AJAX)
- **Longer Throw Distance** – Good print quality on irregular stock (FN)
- **Intelligent Ink Tracking** – Automatically track ink usage by cartridge even when switching between stalls (FN · AJAX)
- **Compact Design** – Seamless integration with your production line (FN · NP45 · AJAX)
- **Substrate Flexibility** – Water-based and solvent inks to print on porous and non-porous substrates, coated stocks, plastics (FN · NP45 · AJAX)
- **Spot Colors** – More than a dozen ink colors; Custom colors to match any PMS (FN · NP45)
- **Dependable Workhorse** – Thousands of installations worldwide (FN · NP45)
- **Proven Platform** – HP 45a is the original thermal inkjet technology and has the most installations (NP45)
- **Modular and Scalable** – Choose print width to match your application; Configure up to 16 head modules per system (FN · NP45 · AJAX)
- **Low-Profile Option for Case Coding** – Horizontal printing close to bottom of case (FN · NP45 · AJAX)

Monochrome TIJ Printers Spec Comparison

	FN SERIES	NP45 SERIES (HP)	AJAX (EXTENDED THROW)
Model	FN-Rx00	NP45-Rx00	AJ-Rx00
Inkjet Technology	Thermal Drop-on-demand		
Cartridge Technology	Funai (originally Lexmark)	HP 51645a	Funai (originally Lexmark)
Native Print Resolution	600 dpi	600 dpi	300 dpi
Print Width	0.5" to 4.0"		
Configurations	**Standard** 0.5", 1.0", 1.5", 2.0", 4.0", or custom print width **Low-profile** 0.5", 1.0", or custom print width		
Ink Throw Distance	up to 3 mm	up to 1 mm	up to 12 mm
Drop Volume	26 pL	33 pL	42 pL
Ink Delivery	Disposable or Bulk Cartridges	Disposable or Bulk Cartridges	Disposable Cartridges
Ink Formulations	Aqueous, Solvent		
Print Orientations	Down or Horizontally		
Max Transport Speed	600 x 600 dpi @ 200 ft/min (61 m/min) 600 x 300 dpi @ 400 ft/min (122 m/min) 600 x 150 dpi @ 800 ft/min (244 m/min)	600 x 600 dpi @ 125 ft/min (38 m/min) 600 x 300 dpi @ 250 ft/min (76 m/min) 600 x 150 dpi @ 500 ft/min (152 m/min)	300 x 300 dpi @ 100 ft/min (31 m/min) 300 x 150 dpi @ 200 ft/min (61 m/min) 300 x 75 dpi @ 400 ft/min (122 m/min)

XiJet FN, NP45 and AJAX pricing and lead times: contact Mailtech.

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