PF25

INDUSTRIAL INKJET PRINTER
FOR CORRUGATED BOARD PRINTING

› Water-based or LED UV curable ink

› CMYK; CMYK + White; Monochrome

› Up to 290m²/ hr. or 240 sheets*/ hr.

› 2.5m (98.4") print width

Dual-sheet Printing Mode

Single-sheet Printing Mode

* Based on 1800mm x 350mm (70.8" x 13.7") image size per sheet, including loading and unloading time.
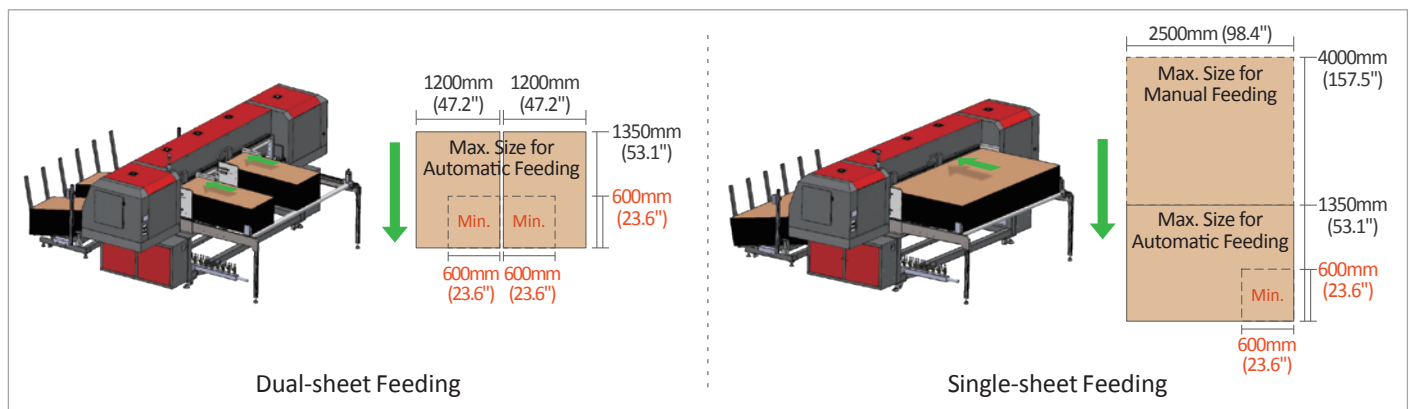
PF25 is a newly developed industrial inkjet printer for corrugated packaging or display applications, directly printing on a variety of uncoated and coated corrugated boards. Tailoring to actual demands of corrugated board printing, the PF25 printer specially utilizes industrial DOD piezo electric print heads with large droplet size of 27 - 54 pl to achieve outstanding print productivity as well as stunning print quality.

As a cost-effective and sustainable digital printing solution, the PF25 printer offers you the capability of medium- & short-run printing with quality consistency and variable date printing for fast, customized and high-quality corrugated board production.

Dual- & Single-sheet Printing Modes Expand Applications

Dual-sheet printing mode enables to print two jobs simultaneously, boosting print productivity dramatically, for each sheet with a minimum size of 600mm × 600mm and a maximum size of 1200mm × 1350mm. In single-sheet mode, the PF25 printer enables to print on a large corrugated board up to the size of 2500mm × 4000mm.
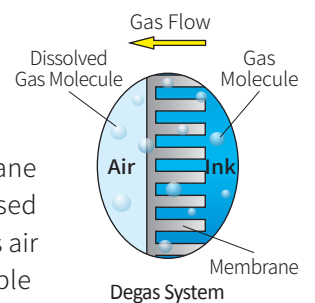
Dual-sheet Feeding

1200mm (47.2") 1200mm (47.2")
Max. Size for Automatic Feeding
1350mm (53.1")
Min. Min.
600mm (23.6")
600mm (23.6") 600mm (23.6")

Single-sheet Feeding

2500mm (98.4")
Max. Size for Manual Feeding
4000mm (157.5")
Max. Size for Automatic Feeding
1350mm (53.1")
Min.
600mm (23.6")
600mm (23.6")

■ Accurate and Exquisite Color Reproduction

- Amica's proprietary VDS (Variable Droplet Size) control technology combines the print head control of 1 to 2 levels of ink droplet sizes.
- Amica's high density white ink can be applied as a base printed on brown or other non-white color corrugated materials.
- PF25 enables to print spot colors with 4 process inks or spot inks to meet stringent brand requirements while printing corporate logos and recognizing colors.

■ Advanced Degas System Achieves Reliable Printing

Dissolved gases will inevitably accumulate in the ink as a result of repeatedly pressurizing and decompressing the piezoelectric crystal. The hollow fiber membrane degas system (only for water-based ink) of PF25 efficiently eliminates air bubbles for consistent and reliable print quality.

Gas Flow
Dissolved Gas Molecule
Gas Molecule
Air Ink
Membrane
Degas System

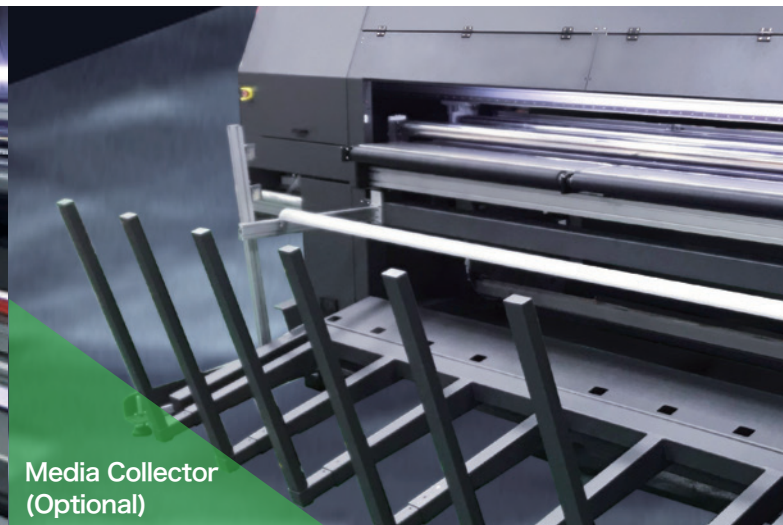## ■ Variable Data Printing Creates Added Value Applications

The PF25 printer works seamlessly with MagicPage VDP software and supports monochrome or colorful variable data printing, including texts, numbers, time, serial numbers, QR codes, etc., which can be varied without stopping or slowing down the printing. Variable data printing helps you create added value applications and obtain more business opportunities for personalized packaging and display printing.

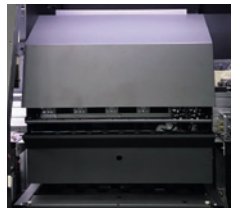**Vacuum Feeding Mechanism**

Media Collector (Optional)

Automatic Vacuum Media Feeding Mechanism Helps Save Time and Cost

The PF25 printer offers automatic and accurate media feeding mechanism, which is covered by multiple vacuum belts and driven by servo motors, achieving effective suction of boards and precise belt motion control. The vacuum system is divided into eight independently controlled zones to position boards with varied dimensions.

The PF25 printer supports automatic feeding of boards within 1350mm length and 2500mm width to save labor and time at the same time. The operator loads a pile of corrugated boards onto the preload table, and the mechanism undertakes the rest, stacking the printed boards in the collector for easy removal with stacker.
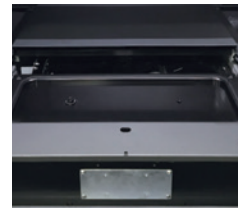
■ Active Negative Pressure System

An Active Negative Pressure System with digital control pressure display gauges ensures high-quality printing at higher possible firing frequency of ink jet printing with industrial piezo print heads.

■ Print Head Maintenance Module

Based on an all-in-one design concept, the small and compact Print Head Maintenance Module allows automatic purging, wiping and capping, ensuring optimum performance with minimum print head deterioration.

■ Dual-roller Mechanism

The Dual-roller Mechanism presses sheet tightly to the table throughout the printing process to ensure it is flat for high quality printing.

■ Water-based or UV Curable Ink for Different Applications

The double-inlet bulk ink tanks with liquid level sensors are easily used for adding ink and alarming for the shortage of ink.

The PF25 printer supports water-based or UV curable ink for different applications. Amica's water-based inks, with saturated colors, surface durability and water resistance, are specially developed together with PF25 for efficient and vivid uncoated corrugated board printing. UV curable inks have advantages of excellent hardness, durability and water resistance, and enable high throughput on a range of coated and uncoated corrugated boards.

SPECIFICATIONS

Printing	Print technology	DOD piezoelectric, automatic voltage and temperature control
	Print resolution	600 × 600dpi, 600 × 300dpi, 600 × 150dpi
	Native drop volume	27-54pl with grayscale
	Printable width	Up to 2500mm (98.4")
	Print head maintenance	Automatic Print Head Maintenance Module for purging, wiping and capping
Ink	Ink types and colors	Water-based or UV curable ink; 5 ink channels; CMYK/ CMYK + White/ Monochrome
	Ink tank volume	3L for each color
Media	Handling	Sheet-fed, Single-/ Dual-sheet mode
	Type	Varies of uncoated and coated corrugated boards (white, brown, etc.)
	Maximum size	2500mm × 1350mm (98.4" × 53.1") (Automatic single-sheet feeding); 2500mm × 4000mm (98.4" × 157.5") (Manual single-sheet feeding); 1200mm × 1350mm (47.2" × 53.1") (Automatic dual-sheet feeding)
	Minimum size	600mm × 600mm (23.6" × 23.6")
	Thickness	2-20mm (0.08-0.79")
	Piled weight	90kg (198.4lbs)
Productivity		CMYK/ Monochrome, 2 × 8 print heads, 600 × 300dpi: 290m²/ hr. (3122ft²/ hr.) W+CMYK, 2 × 10 print heads, 600 × 300dpi: 145m²/ hr. (1561ft²/ hr.)
Software and User Interface		ColorPRINT RIP software, MagicPage VDP software, Printer Control Software (PCS) Color LCD control panel
Connectivity		Fast Ethernet
Dimensions (W × D × H)		4830mm × 4170mm × 2030mm (190.2" × 164.2" × 79.9") (Non-operating) 5830mm × 4980mm × 2030mm (229.5" × 196.1" × 79.9") (Operating)
Weight		1700kg
Operating Environment	Temperature	16-28°C (61-82°F)
	Relative humidity	40-60% (Recommended)
	Altitude	Up to 1000m (3281ft)
Power Requirements		Frequency 50-60Hz; Voltage 220V±10%; Power 7.0KW/ 32A

APPLICATIONS

Corrugated packaging, Retail ready packaging, Corrugated displays, Store displays, etc.

AMICA SYSTEMS Europe B.V.

Camerastraat 6, 1322 BC Almere, the Netherlands   Phone: +31 (0) 36 21 00 166
E-mail: info@amicasystems.eu   For more information, please visit **www.amicasystems.eu**

PF TE TA DG FR CW CG CR XB TR TB TD FG S TC TL TS CL CS