CREATING NEW
INKJET EXCITEMENT

LEADER OF INKJET PRINTING IN CHINA

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FOUNDER EAGLEJET™

HIGH-DEFINITION COLOR INKJET WEB PRESS

6600CHD-33

BEIJING FOUNDER EASIPRINT CO., LTD.

Founder EagleJet™ High-definition Color Inkjet Web Press
P6600CHD-33

As an extension of the HD color press—P6600CHD, this model maintains high printing quality, efficient and stable production capacity, and a long service life. It features a single tower design, resulting in a more compact layout, smaller footprint, and shorter return on investment cycle. Furthermore, it has been upgraded in all aspects of ink technology, drying technology, and color technology, resulting in improved performance in printing on coated paper.

》 The enhanced water-based pigment ink for coated paper provides better support for domestic gloss paper in terms of ink spot, drying, jetting accuracy, and open-time.

》 The redesigned drying unit, based on the domestic gloss paper and matt paper, enhances drying efficiency and flattens the paper.

》 The color and screening algorithm have been optimized to accurately reproduce all types of gradients and extreme highlights, thereby enhancing the color levels.

➤ Truly Offset-like Print Quality 》》》

❶ High-Precision Printhead

The print image is accurately reproduced with minimal grain, smoother tones and richer gradations by utilizing 1200 DPI industrial piezoelectric printheads and advanced multi-level drop combination control technology.

❷ Printhead Splicing Technology

To ensure the precision of the printhead splicing, high-precision alloy materials and advanced processing and assembly technology are adopted.

❸ High-performance Specialized Inks

The specialized water-based pigment ink, made by top ink manufacturers, can be applied to a wider range of paper due to its excellent inking characteristics, color saturation, and drying performance.

❹ Newly Designed Mechanical Platform

● **The precise control of the printhead height ensures accurate shaping and spraying of ink droplets.**

The mechanical platform ensures stable high-speed paper movement up to 150 m/min （roll-to-roll） with an optimized roller group structure and high-precision assembly process.

● **Unique High-speed, High-reliability Synchronization Control Technology.**

Combined with blue light technology, it ensures precise matching between the nozzle jet and paper movement, effectively improving registration accuracy and color tone uniformity.

● **New Closed-loop Tension Control System**

The system achieves real-time tension compensation and digital control during operation, ensuring the stability of paper movement and greatly enhancing high-speed printing stability.

❺ New Inkjet Screening Technology

● Based on the "Founder inkjet halftone screening technology", and considering the characteristics of the 1200dpi printhead, as well as the permeability and adhesion of ink on paper, the multi−bit depth variable ink−droplet screening technology was developed. The technology is designed to intelligently distribute ink droplet size and automatically configure the best screening mode.

● The blue noise and green noise FM generation control technology, along with the customized high line AM screen technology, provide high−quality printing comparable to 300lpi offset printing.

● This screening technology has shown better print quality with less ink, which reduces the drying requirements of pages with large amounts of ink, effectively improving the print stability of pages with large amounts of ink at high speeds.

❻ Founder "ColorTools" Color Management Technology (Inkjet Version)

● Based on decades of offset printing color management technology and process experience, combined with the characteristics of inkjet technology, a series of technological innovations have been achieved, such as workflow color management technology, AI color separation control technology, accurate spot color simulation control technology with fixed color gamut, image saturation enhancement technology based on matching with illuminants, BPC (Black Point Compensation) technology in color gamut, accurate color reproduction control technology with low ink quantity, etc.

● It greatly reduces the professional requirements for color management technicians, while achieving minimalist operation of color management for industrial−grade inkjet printing.

● The new screen and 1200 dpi printhead allow for the continued advantages of color reproduction close to the offset printing, while also offering a high saturation option to meet the needs of businesses requiring a higher level of color saturation.

● The color and screening algorithm have been optimized to ensure catch light dot reproduction and to optimize the gradient level.

❼ "ElecRoc" Text Processing Technology

● **Text Processing Technology on Create Outlines**

Avoids stroke thickening and stroke degradation caused by outline creation, effectively improving the quality of text.

● **Text Blackness Control Technology**

Properly reduces the amount of black ink in the text without compromising reading comfort, while maintaining the amount of black ink in the CMYK color image, which preserves the best gradation of color tones.

● **Four−Color Black Letter to Single Black Technology**

Directly avoids the inaccurate overprinting problem when inkjet printing CMYK text.

Founder combines the high−precision 1200dpi industrial printhead with tiny ink droplets and a constant stream of advanced technologies, including the web mechanical platform, improved tensioning and drying system, new screening, text processing, color management and special high−performance ink, etc. Consequently, the new−generation press achieves superior color quality compared to offset printing on digital uncoated paper and brilliant color levels on uncoated paper—

Enabling customers to meet production capacity and market competitiveness requirements for mid−to−high−end print markets.

⇨ Ultra-Low Ink Cost ≫≫

❶ Improved Screening Technology

Achieves better print quality with less ink. Compared to 600 dpi color machines, ink savings of up to 30%–40% can be achieved for the same job and under the same printing conditions.

A newly developed ink calculator is designed to assist customers in measuring ink consumption prior to printing.

❷ Upgraded Ink Supply Technology

The latest sixth-generation circulating ink supply system significantly reduces nozzle clogging, thereby reducing ink waste in cleaning maintenance by 50%.

○ 600dpi press

○ 1200dpi press
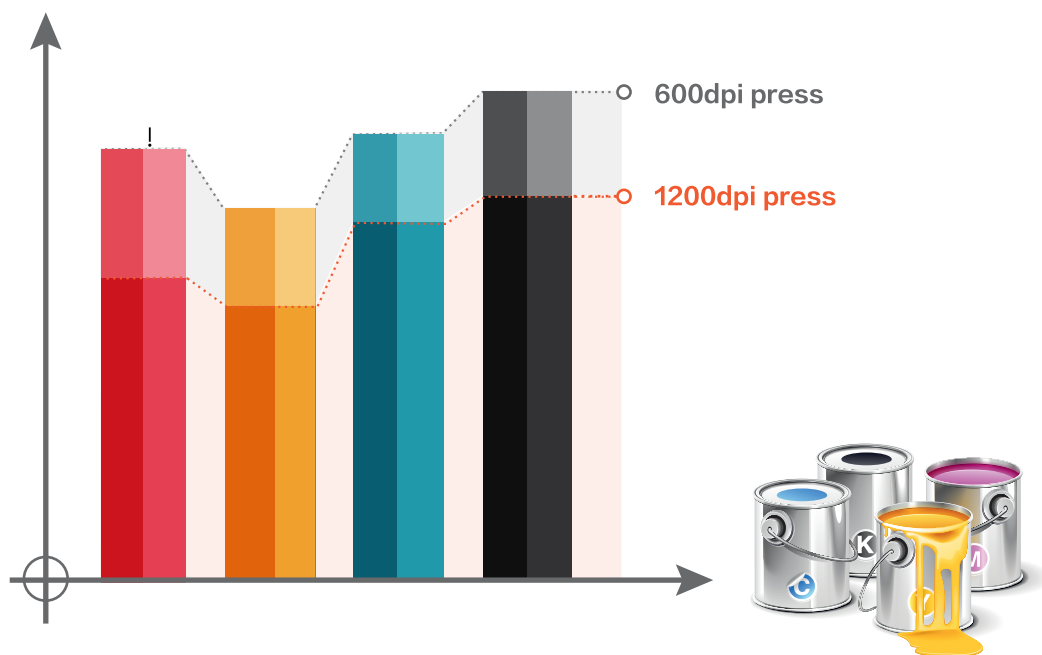
⇨ Super Long Service Life ≫≫

Casting Frame

● The mechanical platform's base and wallboard are constructed using advanced assembly techniques and casting structures to ensure long-term structural stability and shock resistance. This approach aligns with the service life of traditional offset presses, offering a robust and reliable solution.

● The servo control system from well-known brands provides the highest level of accuracy, stability, and durability, ensuring reliable paper transmission, including the detection of paper breakage, double sheets, and tails.

⮕ Stable High Production Release ❯❯

❶ Minimize the Downtime Caused By Nozzle Clogging

The latest ink supply technology with online detection greatly reduces the probability of nozzle clogging, while also enabling automatic white-line compensation. This protects the entire printing process for one or more jobs, without the need to stop and maintain nozzles.

❷ Efficient Paper Roll Replacement

Online detection allows for automatic adjustment of printing parameters after paper replacements, eliminating the need for time-consuming manual fine-tuning.
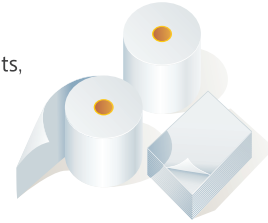
❸ Technologies for Reducing Wrinkles and Dirt

- The upgraded drying system has significantly enhanced the drying capacity of large-ink-amount jobs.
- The Page Ink Reduction Technology can reduce separately target ink for pages with super-large ink amounts, ensuring the high-quality printing of the entire job.

❹ Imposition Function For Continuous Paper

The function provides a wide range of flexible imposition options for printing books and periodicals. It supports various binding methods, including perfect binding, saddle stitch, sewing, and more. One production line can be utilized by different business types of customers to improve overall production efficiency.

❺ Powerful RIP Processing

The excellent RIP cluster control capability enables the A4 color file processing speed to reach up to 3,000 pages* per minute, which is the foundation for high-speed printing. （*: under Founder-specified conditions ）

❻ Founder Digital Printing Cutting System

Post-press technology from internationally renowned manufacturers.

The cutting technology of leading global manufacturers has been introduced and optimized for domestic paper. Following the production of a significant number of domestic black-and-white web machines, it has been proven to be an effective and reliable tool for efficient and stable production, as well as high-efficiency binding delivery.

Stable, high-quality, and high-production releases enable customers to take more orders during peak production seasons, reducing expenses associated with equipment depreciation, labour, field rent, energy consumption, equipment maintenance, and more, thereby achieving comprehensive cost competitiveness.

➜ Founder Digital Printing Cutting System ≫›

In cooperation with famous foreign manufacturers, Founder digital printing cutting system optimized width for domestic paper.

In addition, Founder also introduced intellectual property to successfully realize localized production and greatly reduce procurement costs.

It is an ideal solution for digital web printing to improve production efficiency and reduce paper waste.

Staggered Stacking
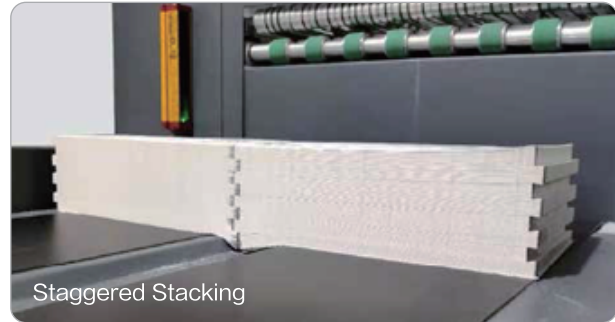
Features

❶ Fast Production Speed

The maximum production speed reaches 137 m/min and ensures the production requirement of 100 m/min when inkjet equipment is connected.

❷ Leading Cutting Technology In China

It can meet the requirements of not only cutting thin paper, but also accurately cutting smaller sizes with the unique small-diameter rotary cutter.

❸ Simple Setup And Quick Specification Conversion

The paper cut specification can be changed easily via the touch screen without any downtime. This improves efficiency and reduces paper waste.

❹ Staggered Stacking For Post-Process Work

The staggered stacking, achieved through the straightforward touch screen configuration, streamlines the paper separation process in the post-production phase, reducing labor costs and enhancing overall production efficiency.

❺ Compact Structure, Low Power Consumption & Space Saving

➜ Founder Digital Printing Cutting System Technical Specifications ≫›

Items	Parameters
Cutting speed	137m/min (max. speed), 120m/min (connect inkjet press)
Paper Weight	40g–200g (Some papers need to be texted.)
Web width	140–560mm
Stack length	90mm–710mm
Stack height	250mm
Stagger Distance	Max. 15mm
Power	220V，50HZ，10A

*Actual speed is affected by the type of paper and printing content.

➜ Founder EagleJet™ HD Color Inkjet Web Press Technical Specifications ≫≫

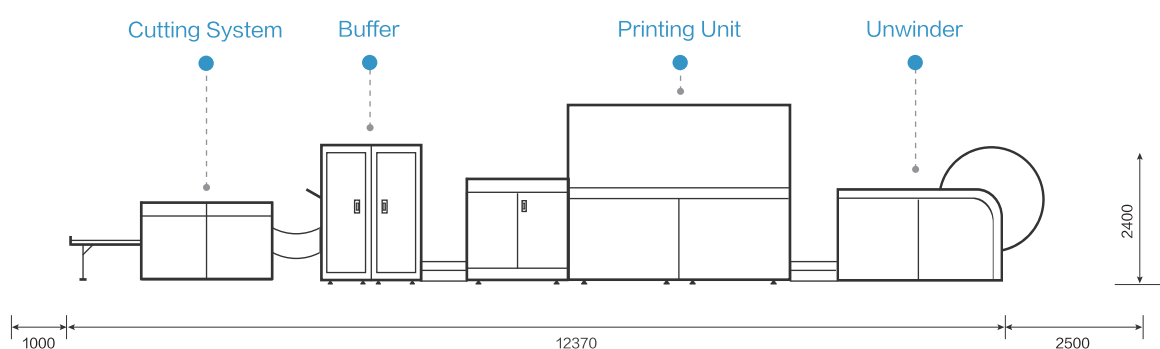| Model	P6600CHD-33
Technique	
Printing Type	4-colors duplex
Resolution	1200*1200dpi、1200*960dpi、1200*840dpi、1200*600dpi
Print Speed	Max. 150m/min*
Connect Cutting Speed	Max. 120m/min*
Registration Accuracy	± 0.5mm (front and back)
Printhead	Industrial drop-on-demand piezoelectric
Ink Droplet Size	Min. 1.5pl
Ink	Water-based pigment ink
Dry Method	Infrared dryer (automatic adjustment on printing speed)
User Interface	Visible user interface
Paper	
Max. Media Width	330mm
Max. Printing Width	324mm
Paper Weight	70 gsm – 200 gsm
Paper Type	Uncoated paper, digital uncoated paper, matte coated paper#, glossy coated paper#
Max. Roll Diameter	1270mm
Power	
Mechanical Platform	380Vac/10KW
Drying System	380Vac/50KWMax
Digital Controller System	220Vac/6KW
Environment	
Temperature	22.5-27.5℃, the best working temperature is 25℃
Humidity	40-70%RH, non-condensing, the best working humidity is 50-60%RH

* Actual speed is affected by the type of paper and printing content. # Founder's recommended brands and specifications.

Software System	
Founder EagleJet™ POD Digital Inkjet Printing System Controller Software	
Hardware Configuration	Server
Software Environment	Microsoft Windows server
Founder ElecRoc Workflow (Inkjet special version)	
Hardware Configuration	Server
Software Environment	Microsoft Windows server
Modules	ElecRoc Server, ElecRoc Client, POD Generator, PDF Tools and PDF File Processor, PDF Color Management, Imposition, Composer, Inkjet Press Output Processor, Founder ColorTools
	For government: Marking Tool, Barcode Processor, Page Processor, Redhead Application, Official Stamp Management System

P6600CHD-33 Roll-to-Roll Layout »

Rewinder   Printing Unit   Unwinder

2400

2500   8850   2500
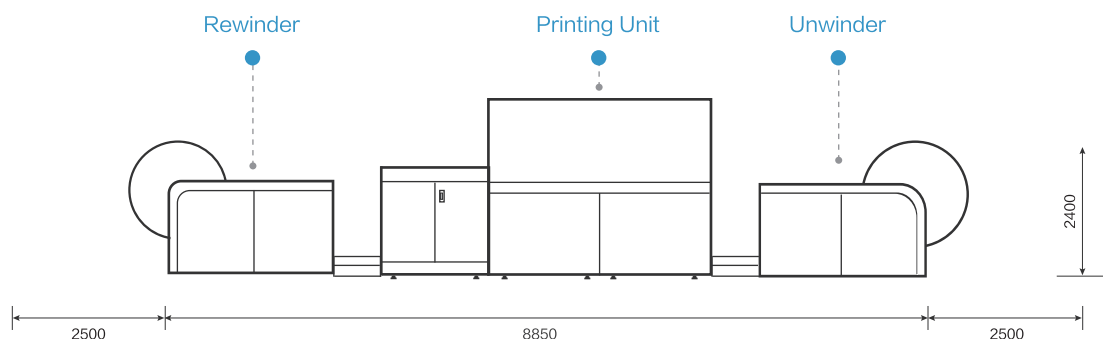
P6600CHD-33 Roll-to-Sheet Layout »

Cutting System   Buffer   Printing Unit   Unwinder

2400

1000   12370   2500

Perfect Service Support

Service centers in 31 cities across China and a strong service team of more than 100 experienced engineers. Quick response to provide maintenance, repair, upgrade and other high-quality services. All localized production and the fast spare parts supply system, fully guarantee the production.

Remote Diagnosis

Combining with the market demand and the actual needs of customers, Founder has developed a remote diagnosis platform for inkjet equipment. With the Internet and real-time data analysis and processing technology, the platform can reduce equipment downtime and improve the efficiency of after-sales service, providing faster, more accurate and more reliable service.

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