FOUNDERPOD

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FOUNDER EAGLEJET™POD Series

HIGH-SPEED MONOCHROME INKJET WEB PRESS

4400SE

Mature Print-On-Demand Inkjet Print Solution

Fully independent intellectual property rights

Green, high quality, high stability, high productivity and low cost of use Online digital printing business and service model

New choice for POD book publishing, short-run commercial printing, government printing, digital newspapers, etc.

BEIJING FOUNDER EASIPRINT CO.,LTD.

Created in China Environmentally Friendly Dedicated to creating a new digital printing business and service model

The Pioneer of Chinese Inkjet Technology

Beijing Founder Easiprint Co.,Ltd., with high-end research and development team and engineering team, which are led by professors and researchers from Peking University, has applied for more than 200 domestic patents and more than 50 international patents in the field of inkjet digital printing technology. Founder is a leading developer of inkjet control technology and supplier of inkjet digital printing systems in China. We are dedicated to creating a new business and service model for digital printing, and contributing to China's position as a global digital printing powerhouse.

Key Features ≫

① High Quality

● **High-Precision Printhead Splicing Technology**
Ensure excellent print quality on flat and gradient screens.

● **Specific High-Performance Ink Inket RIP Screening Technology Perfect Inkjet Spray Control Techonology**
Achieve optimal text and image quality.

● **Printhead Compensation Technology**
Reduces the problems caused by nozzle blocking.

Printhead Compensation
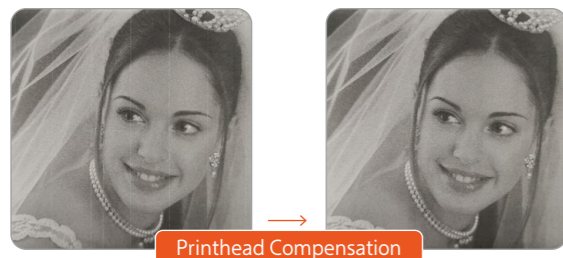
● **Founder Multi-bit Depth Screening Technology**
Enable the output quality of 600 dpi equipment achieve to 1200dpi resolution effect, which can rival with offset printing.

Multi-bit Depth Screening
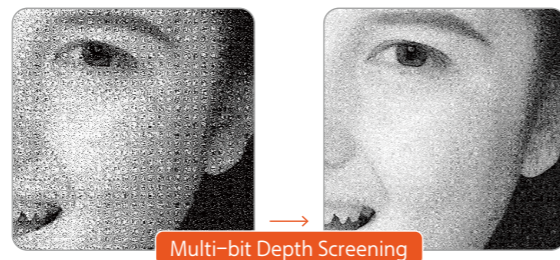
● **Intelligent Ink Volume Control Technology**
Optimise the production of large ink volume graphics to ensure printing quality.

● **Text Edge Optimization Function**
Through Founder RIP, screening and edge generation technology combined with ink drop size control technology, effectively eliminates text edge zigzag and levels, to ensure best printing effect.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890!@#$%^&*()
Non-optimized

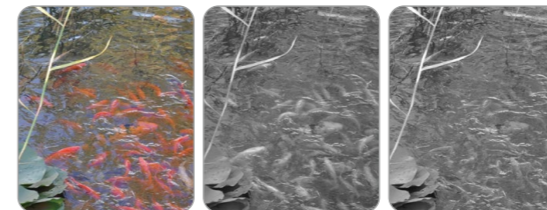ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890!@#$%^&*()
Optimized

● **Founder's Up-to-date gray image optimization conversion technology**
Improves consistency of conspicuous visual features in gray-level image and colorgul original pattern, and improves presentation effect.

Original Image   Optimized Conversion   General Conversion

● **Founder ColorTools Color Calibration System**
Adopts the world's leading color management engine, in line with the simple and fast "one-click" mode of inkjet printing production, characterized by intelligent calibration, significantly improve the output image of the light-dark levels and smoothness.

② High Stability

● Electrical control system adopts internationally famous brand.

● State-level laboratory undertakes the processing of key components with high precision and stable technology. Software and hardware system with completely independent intellectual property rights are highly integrated to avoid problems caused by third-party cooperation.

● Self-developed ink supply system, after several upgrades and iterations, to ensure stable production.

● Self-developed CNC system to ensure stable and reliable data transmission.

③ High Productivity

● In actual production, the equipment can run stably at the highest speed for a whole month in a row, exerting effective actual production capacity to meet tight delivery cycle requirements.

● The new 64-bit Founder RIP utilizes multi-core technology for parallel processing to guarantee the efficiency of massive document processing.

④ Low Cost of Use

● Founder researched and developed the special drying system for Founder's equipment according to the characteristics of the unique ink. Through the optimization of wavelength, the energy consumption is reduced by about 30% compared with the full-wave drying system.

● Using the latest ink control technology, the cost of ink usage has been drastically reduced.

➡ POD Publishing Printing ≫≫

In the field of print–on–demand books and periodicals publishing printing, inkjet digital printing is developing rapidly with the advantages of zero inventory, no waste, short cycle time and green. Founder EagleJetTM P4400SE high–speed inkjet digital printing press helps you grasp the market opportunity and stand out in the increasingly fierce competition.

Applications for POD

● The width of the equipment is designed for the width of books and periodicals to maximize production capacity.

● It can produce with high stability for a long time to ensure delivery cycle and return on investment for the enterprise.

● Founder ElecRoc digital workflow, connected directly with Founder EagleJetTM POD series inkjet press, with professional imposition mode, provides flexible imposition methods and diverse digital binding methods, such as stacking, perfect binding and saddle stitching.

● It can be linked with a variety of post–press solution as follows.
Connected with cutting system, binding, three–side trimmer, roll to finished book solutions have become the choice of high–end POD books and periodicals printing users;
Sheet–to–fold solution makes full use of users' original binding and locking equipment for POD books and periodicals printing users.

➡ Commercial Printing ≫≫

With the rapid development of the Internet, printed materials are developing in the direction of multi–variety, small batch and personalization.
Founder EagleJetTM POD series inkjet web press, with variable, personalized, fast and efficient and lower comprehensive cost features, challenges the traditional printing, while the cost per sheet is far lower than the laser digital printing, in line with the rapid emergence of the wave of digital processing centers, to help you easily promote the rapid development of business.
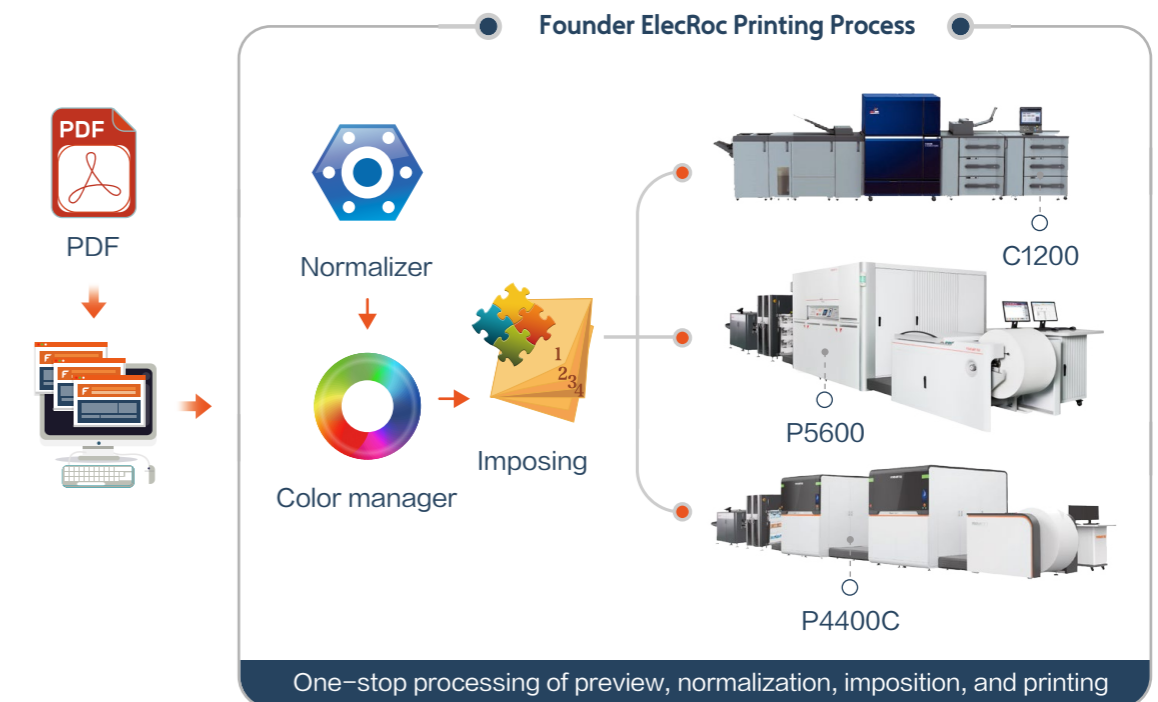
Applications for POD

● High–speed parallel RIP improves the efficiency of massive file processing to maximize capacity and enhance factory delivery capability.

● Roll–to–sheet solution, as the most applied solution for commercial printing, is widely used in printing market such as business printing, graphic express printing and official printing.

● Roll–to–saddle stitching solution is not only efficient for official document printing, but also suitable for business printing.

Founder POD Solution

Founder digital workflow — One stop POD printing production

Founder ElecRoc Printing Process

PDF → Normalizer → Color manager → Imposing

C1200
P5600
P4400C

One-stop processing of preview, normalization, imposition, and printing

Paper in roll to book block

Saddle stitching · Binding · Sewing

➡ Founder Cutting System ≫

Deep cooperation with famous foreign manufacturers.

Customized development of width.

Introducing intellectual property rights, successfully realizing the localization of production,

significantly reducing procurement costs.

Improve production efficiency and reduce paper waste.

Book block staggered stacking after cutting

Features

❶ Fast Production Speed

Maximum production speed is up to 137 m/min, and 100 m/min can be guaranteed when connected with inkjet web press.

❷ Advanced cutting technology

Adopting advanced cutting technology to meet the thin paper cutting. The unique rotary cutting knife with small diameter can ensure the accurate cutting of smaller sizes.

❸ Simple setup and quick specification changeover

Simple settings in the touch screen can complete the specification changes of paper cutting. Fine adjustments without stopping, improve efficiency and reduce paper waste.

❹ Staggered stacking for easy post-processing

Staggered stacking can be realized through simple touch-screen settings, eliminating the need for splitting books, to reduce labor and improve productivity.

❺ Compact structure and low power consumption

➡ Technical Specification of Cutting System ≫

Items	Parameters
Cutting speed	Max. speed 137m/min, conncet inket press 100m/min
Paper Weight	40g-200g(Some papers need to be texted.)
Web width	140mm-440mm
Stack length	90mm-710mm
Stack height	250mm
stagger distance	Max. 15mm
Power	220V，50HZ，10A

➡ Technical Specifications of Press ≫

Printing Mode	P4400SE
Technical Specifications	
Max. Media Width	440mm
Max. Printing Width	432mm
Printing Type	Monochrome Duplex
Dry Method	Infrared Dyrer (automatic adjustment on printing speed)
Registration Accuracy	± 0.5mm(front and back)
Print Speed	100m/min Max.
Frame Structure	Steel structure
Printhead	Industrial Drop-on-demand Piezoelectric
Ink	Water-based pigment ink
Resolution	600 × 600dpi/2bit 600 × 1200dpi/2bit (Max.)
IR Lightbox	Two Suits
Media Type	Uncoated paper, inkjet coated paper, newspaper
Media Thickness	45gsm-165gsm
Max. Roll Diameter	1270mm
Operating Environment	
Temperature	22.5-27.5°C, the best working temperature is 25°C
Humidity	40-70%, the best working humidity is 50-60%RH
Power	
Mechanical Platform	80Vac, 8KW Max
Dryer System	380Vac, 25KW Max
Digital Controller System	220Vac, 3.5KW Max
Occupation Size	13.29m (Roll-to-Sheet, Linear)
Main Machine Weight	2.4 tonnes
Configuration	
Printhead Redundancy	Standard
Paper Positioning System	Standard
Paper Dedusting System	Standard
ESD system	Standard
Assemblies	
Main Machine (with Unwinder)	Standard
Founder Cutting System (Buffer, Cutter, Stacker, Conveyors)	Standard
Rewinder Unit	Optional
Folding Device	Optional

Note: Paper types and grammage weights are tested in specific environments. Some untested papers may not be suitable for print production.

Software			
Founder POD Inkjet System Controller		**Founder ElecRoc Workfolw (Inkjet special version)**	
Hardware	Server	Hardware	Server
Software	Microsoft Windows server	Software	Microsoft Windows server
Network Interface	Gigabit	Modules	ElecRoc Server, ElecRoc Client, Normaliser, Imposing Processor, Inkjet Press Output Processor, Rasterisation Processor

P4400SE Site Layout Schematic ≫

For more layouts, please enquire.

| 1500 | 1000 | 6950 | 2500 |

1500

2750

5910

1000

Cutter   Buffer   Press   Unwinder

| 500 | 10790 | 2000 |

2400
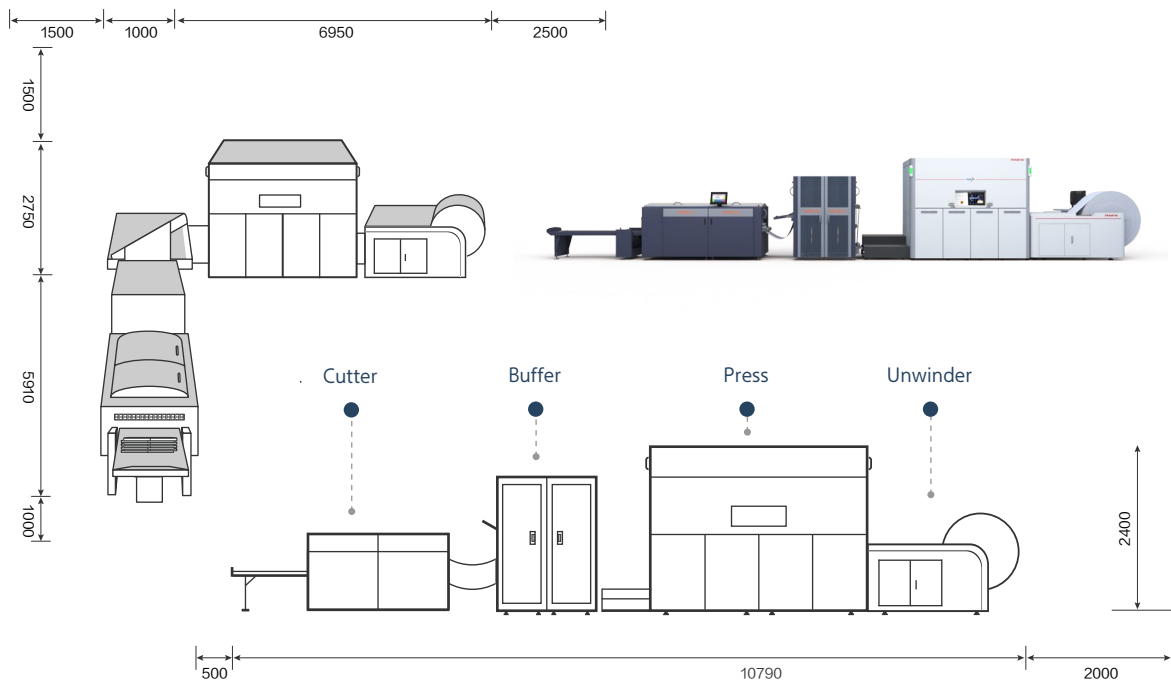
Eco-friendly

≫ All water-based ink completely, meets the requirements of environmental protection.

PerfectServiceSupport

Fast Service Support

≫ Service centers in 31 cities in China and strong service team with over 100 experienced engineers.
Fast response to provide maintenance, repair, upgrade and other high-quality services.
All localised production, 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 as well as real-time data analysis and processing technology, the platform can reduce downtime of equipment, and improve the efficiency of after-sales service, thereby providing faster, more accurate and more reliable service.

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