Applicaton



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LQ-MD
Full-size Digital POD Inkjet Printing Solution

UPG 众智杰 UPGJET

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LQ-MD 8800

High Speed Two Sides
Full colors Inkjet Printing System



Introduction

LQ-MD 8800 High Speed Two Sides Full-color Inkjet Printing System is a brand new full format digital inkjet roll paper printing system launched by the company with strong technical strength and years of industry experience. The system has unprecedented production capacity and extremely low operating costs, helping traditional printing companies achieve digital and intelligent transformation, reduce costs and improve efficiency.

Features & Advantages

- The industry's largest format color digital inkjet web printing system has maximum width of 880mm and the maximum printing speed can be up to 120 m/min. The stable monthly output of the device is 60 million to 80 million prints (A4).
- With online coating units, it supports printing on ordinary coated paper, expanding the scope of business.
- Using the latest high-speed piezoelectric printhead with multiple high-precision printing modes, can support 1200×2400dpi resolution, and offering mono, dual-color, and full- color configurations as needed.
- The high-capacity dual-roll automatic paper feeding module can achieve non-stop paper changing during printing, and improves the continuous production capacity.
- The system is equipped with dual-specification folding and collecting unit that can support both 787mm and 880mm specifications, which easily enables booklet or custom imposition folding output.
- Providing roll-to-roll, automatic folding, and A4 cutting sheet three ways of convenient collection.
- The online folding unit ensures full speed printing under working status. No buffering unit, reducing paper waste.
- Support various open variable data layout systems and AFP/IPDS output control systems.
- Can integrate various post press equipment and image detection systems to build automated intelligent factories.

Specification

Printhead	Using the latest high-speed circulation on demand piezoelectric industrial grade printhead (high-speed, high-precision, circulation, variable point printing)
Print Size	Printing width 840mm, paper feed width 880mm 880mm、787mm(Online folding module) 880mm-440mm(roll to roll and roll to cutting unit)
Print Color	1+1(Mono): 2+2(Dual-Color): 4+4(Full colors)
Resolution	600×600dpi,600×1200dpi, 1200×1200dpi
Print Speed	Designed speed 100m/min (depending on paper' s quality, thickness and environment, etc.)
Suitable Paper	Woodfree paper/News paper/Inkjet coated paper/Carton Free Paper
Suitable Paper Gram	40-165g
Output Method	Triangular folding module,can output 4 types of paper sizes: 8k,16k,32k,and 64k
Working Environment	Recommend Temperature: 22.5-27.5℃, Recommend Relative Humidity: 40%-70% Optimal Temperature: 25℃, Optimal Humidity: 50%-60%
Voltage. Power	380V,Power 60kw (peak)
Machine Size	L11500mm×W4300mm×H2900mm

LQ-MD 5600/4400

HD Color Web Inkjet Printing System



Features & Advantages

- Using the latest high-speed circulation on demand piezoelectric industrial grade printhead with 1200×1200dpi maximum resolution, integrated self-developed printhead control board, can supports up to 64 printheads for stitching and variable point printing, achieving perfect image quality.
- Continuous full speed printing to achieve 100m/min or 1500 A4 pages/min.
- The maximum width of paper can reach to 575mm, and the printing format is available in 560mm /440mm /330mm.
- Support water-based pigment or dye-based inks, which can provide clear and stable imaging on ordinary paper and inkjet-specific paper weighing from 40 to 180 grams, with superior quality like traditional printing.
- Monthly maximum print volume up to 44 million A4 to meet peak printing business demand.
- Self-developed motion control system enables uninterrupted circulation of ink supply control, eliminate ink breakage or white lines during the printing process.
- The full servo control system can quickly respond to various fault information, greatly improving the stability of equipment operation.
- Various post-press devices that support international standard protocols can be integrated, add image detection systems to perform high-speed intelligent supervision and detection of printing content and quality, building an efficient automated smart factory production environment.

Specification

Printhead	Using the latest high-speed circulation on demand piezoelectric industrial grade printhead (high-speed, high-precision, circulation, variable point printing)	
Print Size	440mm (Color 330mm is option) Output paper width is up to 787mm(optional)	560mm (Color 440,330mm is option) Output paper width is up to 787mm(optional)
Print Color	1+1(Mono): 2+2(Dual-Color): 4+4(Full Colors)	
Resolution	600x1200dpi (3PL)	1200x1200dpi (1.5PL)
Print Speed	Designed speed 100m/min (depending on paper' s quality, thickness and environment, etc.)	
Suitable Paper	Woodfree paper/News paper/Inkjet coated paper/Coated Paper /Carton Free Paper	
Suitable Paper Gram	40-180g	
Drying	Infrared drying (full-automatic speed adjustment function)	
Working Environment	Recommend Temperature: 22.5-27.5℃, Recommend Relative Humidity: 40%-70% Optimal Temperature: 25℃, Optimal Humidity: 50%-60%	
Machine Size	L11500mm×W4300mm×H2900mm	

LQ-MD 4400C

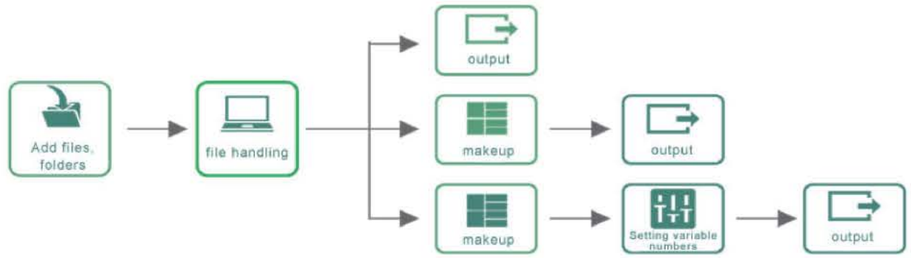
Two Sides Sheet-Fed Inkjet Printer



Introduction

LQ-MD 4400C is a high-speed full colors duplex inkjet sheet-feeding press with completely independent intellectual property rights.
The bottom tooth-picking and paper tail air suction technology of the product's roller of traditional offset printing have undergone a number of technical innovations to ensure the accuracy of the paper transfer, which can achieve 40-180g paper thickness and maximum feed 330×440 printing, with a maximum capacity of 7,000 sheets A3/hour and maximum accuracy of 600×1200dpi, without IR drying, greatly reducing energy consumption.

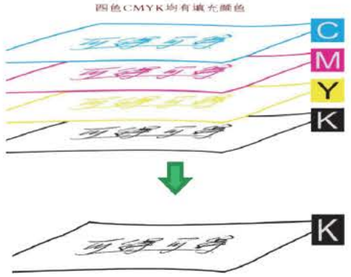
Features & Advantages



The 64bit high-speed parallel RIP, the joins and the variable data management system, can realize 1,200 pages/min computing capacity, which fully supporting the files queue streaming prinitng. When a printing is finished, the next printing starts automatically, this truely realize the seamless printing of multiple files.



Clear Text Presentation



Four Color Text To Single Black Text

4400C uses RIP for special processing of the text edges, so the text edges can be printed clearly and even small fonts are clear and legible. Realize four-color text conversion to the signle black text, easy to slove the printing alignment problem.

Specification

Printhead	Using the latest high-speed circulation on demand piezoelectric industrial grade printhead (high-speed, high-precision, circulation, variable point printing)
Print Size	440mm×330mm
Print Color	Mono, Dual-Color, Full Colors
Resolution Ratio (dpi)	Full color:600×600dpi,600× 800dpi,600×1200dpi
Print Speed	Designed speed 600ppm, around 7,000pcs/h (depending on paper's quality, thickness and environment, etc.)
Suitable Paper	Woodfree paper/News paper/inkjet Coated Paper/ Carbon Free Paper
Machine Size	L4610mm×W1690mm×H1800m (including base pedal 2850 mm)

LQ-MD 1101

Sheet-Fed Inkjet Digital Printer



Features & Advantages

- Specific design for office printing and graphic arts industry with compact engine to achieve high capacity and low cost.
- Using the latest high-speed circulation on demand piezoelectric industrial grade printhead with 1200×2400dpi maximum resolution, integrated self-developed printhead control board to achieve perfect image quality.
- The worldwide first patented and fully independently designed suction-type double-side feeding technology enables simultaneous printing on double-sided for multi-color printing, while ensuring stable paper delivery and precise registration of printing.
- The independently developed ink supply control board can achieve stable and uninterrupted circulation of ink supply control, eliminate ink breakage or white lines during the printing process.
- The independently developed printhead control board supports Single Pass variable dot printing with up to 64 printheads spliced together, enabling more diverse printing layers.
- The independently developed motion control board can accurately control hundreds of sensors and servo motors on the device.
- Customized development of Jin Guang Red spot color ink to meet the red-head documents printing requirements of government .
- Various color options are available for the appearance.

Specification

Printhead	Using the latest high-speed on demand piezoelectric industrial grade printhead
Color Mode	Mono,Dual-Color,Full Colors
Resolution	Mono 600 x 1200dpi (Optional for 1200 x 1200dpi by loading HD Printing Unit) Dual-Color 1200x 1200dpi Full Color 600x 1200dpi
Media Size	Max 440mm x 330mm Min 210mm x 297mm
Max Printing Size	436mm x 300mm, (Optional the tenth printhead module can be extended to 636mm x 326mm)
Print Speed	100p A3 per/min, 176p A4 per/min (Using 80gsm paper testing under ISO/IEC19752 industry standard)
Device Performance	Max of MPV is 3 million, Design life of whole mechanical system is 200 million
Suitable Paper	Wood free paper/News paper/Inkjet Coated paper /Carbon free paper/Wove paper
Ink Type	Water-based Pigment Ink
Machine Weight	Net weight 950kg, Packed weight 1235kg
Voltage.Power	220V/ 11A/1.6kw (Drying off) - 45A/12kw (Drying on)
Machine Size	L11500mm×W2000mm×H1700mm

LQ-MD 5600P

Two-color Triple Bill Inkjet Printing System



Features & Advantages

- Full intelligent bill production platform, achieving online printing, high-speed cutting, punching and folding and online binding to establish one-stop production environment.
- Using the latest high-speed circulation on-demand piezoelectric industrial-grade printhead with a maximum resolution of 1200 x 1200 dpi to achieve precise color printing.
- Support fully variable data printing(VDP), including serial number, database layout, various barcodes, and variable text printing.
- Online visual variable data layout system, can complete the layout and printing of bill documents easily.
- The full servo control system can quickly respond to various fault information, greatly improving the stability of equipment operation.
- Three-part paper loading module allows for automatic switching between three-part and two-part printing.

Specification

Printhead	Using the latest high-speed circulation on demand piezoelectric industrial grade printhead (high-speed, high-precision, circulation, variable point printing)
Print Size	Printing width 840mm, Paper width 880mm
Print Color	Three-part(Mono,Dual-Color,Full colors) Two-part (Mono,Dual-Color,Full colors)
Resolution	600×600dpi, 600×1200dpi, 1200×1200dpi
Print Speed	Designed speed 100m/min (depending on paper' s quality, thickness and environment, etc.)
Suitable Paper	Woodfree paper/News paper/Inkjet coated paper /Carton Free Paper
Suitable Paper Gram	40-165g
Output Method	Triangular folding module,can output 4 types of paper sizes: 8k,16k,32k,and 64k
Working Environment	Recommend Temperature: 22.5-27.5℃, Recommend Relative Humidity: 40%-70% Optimal Temperature: 25℃, Optimal Humidity: 50%-60%
Voltage. Power	380V、Power 60kw (peak)
Machine Size	L11500mm×W2000mm×H1700mm