



General Inkjet Printing: Digital inkjet printing system :HARPY R440 series



- + Stable and high-speed printing unit**
Heavy Duty printing platform capable of printing at a high speed of 100m/min.
- + Suitable for many markets**
Suitable for printing applications such as commercial printing, publications, documents, digital printing, educational materials and package instructions.
- + Excellent printing quality**
Maximum resolution up to 1200dpi*1200dpi
- + Agfa Apogee digital workflow software**
With the latest APPE printing engine and Agfa's over 30 years of color management and workflow control experience, printing becomes simpler, more precise and more reliable.



1200dpi High-speed Printing Unit

600dpi*600dpi/600dpi*900dpi/600dpi*1200dpi

- 1 Imported high-precision industrial printheads have a higher jetting frequency and lifetime with a maximum resolution of 600×1200dpi, ensuring outstanding printing quality.
- 2 Heavy duty printing platform capable of printing at a high speed of 100m/min.
- 3 Exclusive nozzle compensation technology achieves finer images, effectively achieves printing quality comparable to offset printing for customers.
- 4 Printhead idle spitting technology prevents printhead to become dry when the machine is not in printing model; automatic printhead humidifying and cleaning will make maintenance easier.
- 5 It adopts ink degassing module and printhead circulation technology to effectively prevent gas bubbles that easily occur in water-based inks, so as to ensure the best graphic and text printing effects.
- 6 Superior ink supply control system can ensure stable ink supply and precise ink volume control for more stable printing operations over a long period.

1200dpi*600dpi/1200dpi*900dpi/1200dpi*1200dpi

HD
1200dpi

- 7 The new generation imported high-precision printheads achieves high-definition, color realistic printing quality on coated paper with a maximum resolution of 1200×1200dpi, which solved the problem of printing on coated paper and has a higher lifetime.
- 8 Heavy duty printing platform capable of printing at a high speed of 100m/min. and in 1200*1200dpi, the maximum printing speed up to 80m/min.

High Quality Water-based Environmental Protection Inks

- 1 Thanks to superior ink formulas, General Inkjet Printing's water-based pigment inks can achieve eco-friendly performance with superior stability.
- 2 Quick drying water-based inks not only reduce drying time but also lowers ink and power consumption, thus further saving in production cost.
- 3 Superior paper adaptability: aside from digital printing papers, General Inkjet Printing's water-based inks also have superior performance on offset papers and newsprints with more paper options.

Unique Printhead Control System

- 1 Each printhead is controlled by a dedicated driver board for greater printing efficiency and easier maintenance.
- 2 Low energy consumption and high data throughput based on the latest smartphone chips technology.



Highly Flexible Roll to Roll Feeding System

General Inkjet Printing's Harpy R440 series inkjet digital printing system is equipped with a highly flexible paper feeding unit that supports media with feeding width up to 440mm, meeting customer requirements for quick switching papers with different specifications.

Automated Cropping And Stacking Systems

- 1 Advanced cropping technology: ensures precise product cropping, can also cut different weight types of paper.
- 2 Smart staggered stacking system: no need for further separation in the follow-up work process, raising efficiency and reducing production cost.
- 3 Sheet buffer unit allows you to re-fill papers without pausing the machine, thus reducing paper waste and shutdown time while enabling uninterrupted production over a long period.
- 4 High correlation system maximally enables automated production functions, including automated buffer, cropping, stacking and conveying.

Powered by Agfa Apogee Agfa Apogee software workflow system

Fully integrated with Agfa Apogee Prepress workflow to ensure the highest reliability and simply operation.



Note: Harpy can also work together with other certified software workflow system.

Easy To Use

Apogee allows you to trace all prepress steps, and smart visualized operation interface keeps you updated on current production status.

The Latest Technology

Apogee adopts the latest Adobe PDF printing engine (APPE), ensuring reliable; high-quality rendering; precise file processing.

Built-in Imposition Module

Apogee's built-in imposition module makes operations more flexible and efficient, ensuring efficient on mass processing of files.

Built-in Preflight Module

Automatically checks files at any time to align with printing requirements.

Color Management Module

It is compatible with various printing technologies and certified proofing standards, ensuring color quality and consistency throughout all stages of your work process.

HARPY R440 series

Specifications

Model	Harpy R440	Harpy R440C ⁴	Harpy R440 HD ^{HD 1200dpi}	Harpy R440C ⁴ HD ^{HD 1200dpi}
Technical Specification				
Printing Method	Single - color double - side	Four - color double - side	Single - color double - side	Four - color double - side
Color Configuration	Black ink only	CMYK	Black ink only	CMYK
Maximum Printing Speed	100m/min			
Resolution	600X600dpi/600X900dpi/600X1200dpi		1200X600dpi/1200X900dpi/1200X1200dpi	
Registration Accuracy	±0.2mm			
Ink Type	Water-based environmental protection ink			
Drying Method	Infrared drying system + Hot wind			
Media				
Maximum Media Width	440mm			
Maximum Print Width	432mm		440mm	
Media Weight	60 - 165g/m ²			
Paper Type	Digital printing papers, offset papers, inkjet coated papers, newsprints, coated paper, etc			
Maximum Rolling Diameter	1200mm			
Power				
Mechanical Platform	Single color: 380V, Max. 70KW; Four colors: 380V, Max. 115KW			
Printing System	Single color: 220V, 4KW; Four colors: 220V, 4 - 8KW			
Environment				
Temperature	18 - 26℃			
Humidity	40 - 70%RH			
System Components				
Unwinding System	✓			
Printing System	✓			
Roll Paper Buffer System	✓			
Roll Paper Cropping And Stacking System	✓			
Infrared Drying System	✓			
Roll Paper Guiding System	✓			
Roll Paper De-static And Dust Removal System	✓			
Unique Technology			Advantage	
Industrial grade piezoelectric nozzle	Higher printhead jetting frequency and long life span			
High-precision Printhead Base Plate and Software Stitching Compensation Technology	Eliminate stitching line issue between print heads			
Software Speed Compensation Technology	Effectively addresses the issue of front side and back side registration off due to platform acceleration and deceleration difference			
Printhead Idle Spitting Technology	Prevents printhead clogging in idle status			
Resume Printing Function	Software automatically remembers the number of previously printed copies			
Reprinting Function	Reprint any page and any number of copies			
Print Count Function	View printing history record and output			
Automatic Printhead Maintenance And Humidifying System	Effectively reduces manpower and time cost			
Use Ink Degassing Module And Head Circulation Technology	Effectively prevent gas bubbles in water-based inks			
Cropped Cross Stacking Technology	Effectively reduces manpower and time cost			

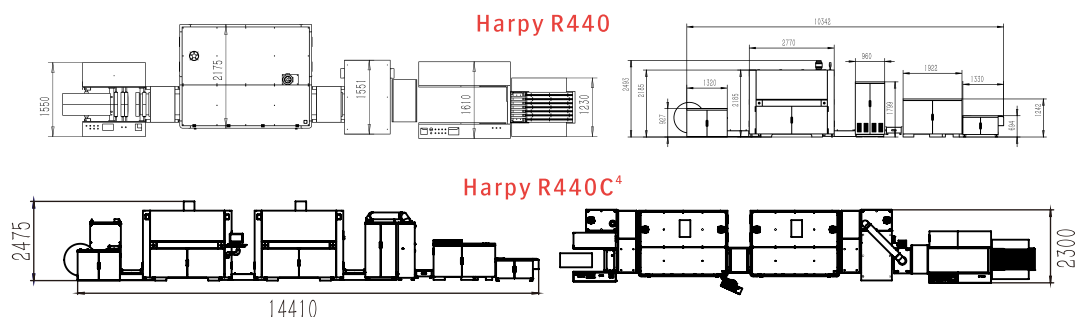
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Notes: Actual speed is related to platform delivery configuration.

Notes: Only certified coated paper is supported.

Product layout ▶

Unit : mm



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Inkjet
Printing

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