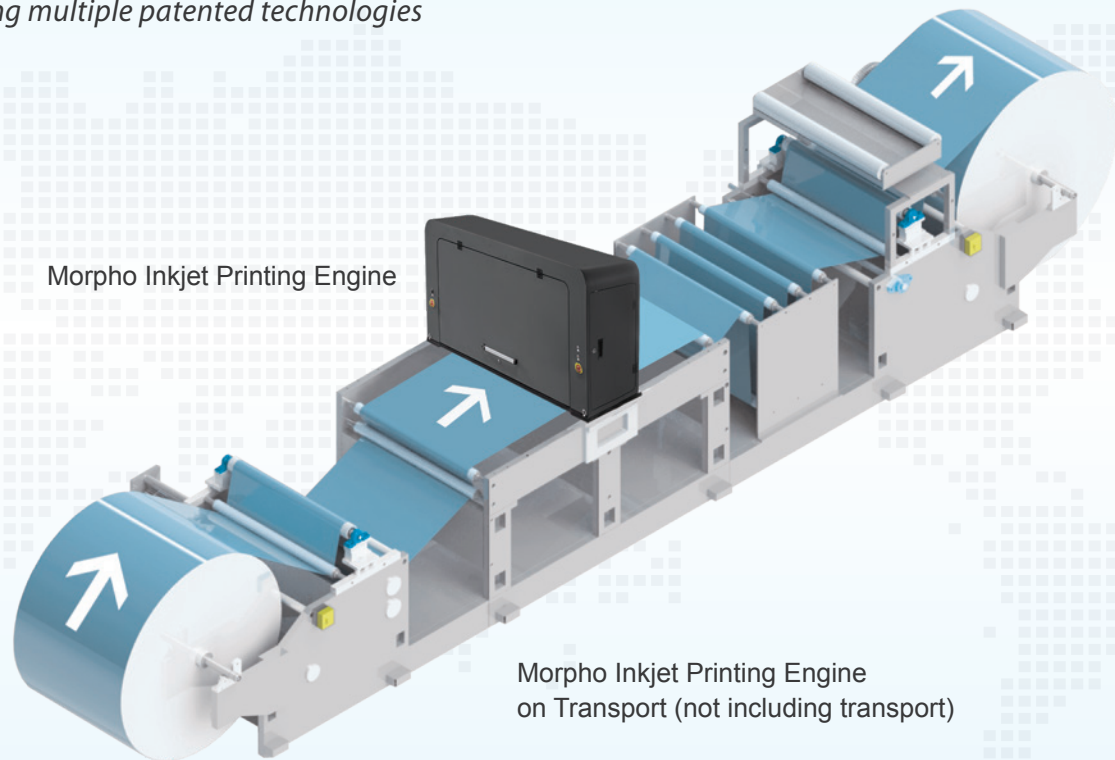


Morpho 648/ 1080

High-Performance Wide-format Inkjet Printing Engine for VDP

- Maximum print width: 648mm (25.5 inches) and 1080mm (42.5 inches)
- Print speed up to 200m/ min. (656ft/ min.)
- Monochrome printing
- Using Kyocera KJ4 print head, 600dpi
- UV ink, water-based dye/ pigment ink, water-based MICR ink, etc.
- Involving multiple patented technologies



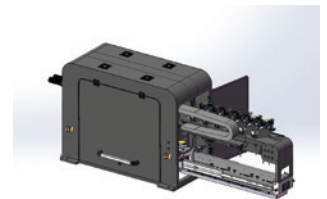
As a developer and manufacturer of industrial inkjet solutions established in 1988, Amica has been specializing in industrial image graphics and inkjet technologies for over 27 years. As early as 2008, Amica launched its first single-pass inkjet print engine for printing books and packaging boxes. Now Amica has been granted over 200 patents worldwide. The majority of Amica's products are compliant with CE or TUV standards carried out in Europe, or cTUVus standards in North America.

Morpho 648/ 1080 are high-performance wide-format inkjet printing engines for single-pass variable data printing (VDP). It can be easily integrated into customer's roll-to-roll production lines. Morpho 648/ 1080 are suitable for high-speed online/ offline web printing at designated location. The modular design offers great flexibility to combine Morpho 648/ 1080 with different technologies, such as media transportation, UV curing, camera inspection for batching and verification.

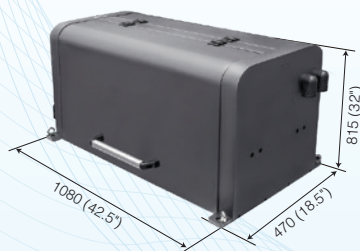
Components	Hardware	· Data Imaging Board · Printing Control Cabinet · Print Head Module	Software	· MagicPage VDP Software · PCS Pro

RELIABLE PRINTING CONTROL SYSTEM

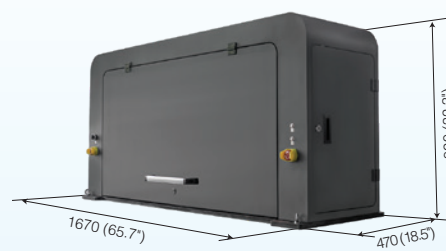
- Accurate on-demand variable data printing control
- Intelligent ink system to ensure stable and continuous ink supply to print heads
- Constant Pressure System or Negative Pressure System ensures stable high-speed printing
- Positive Pressure System for nozzle recovering to keep the print heads in best condition and extend their lifespan
- Field upgradable firmware and system software
- Automatic ink shortage alarming by ink level sensors
- Head temperature setting and real-time monitoring
- The sub-tank with anti-overflow function will shut off negative pressure to prevent ink from flowing out



Manual Maintenance Position



Morpho 648 Head Module



Morpho 1080 Head Module



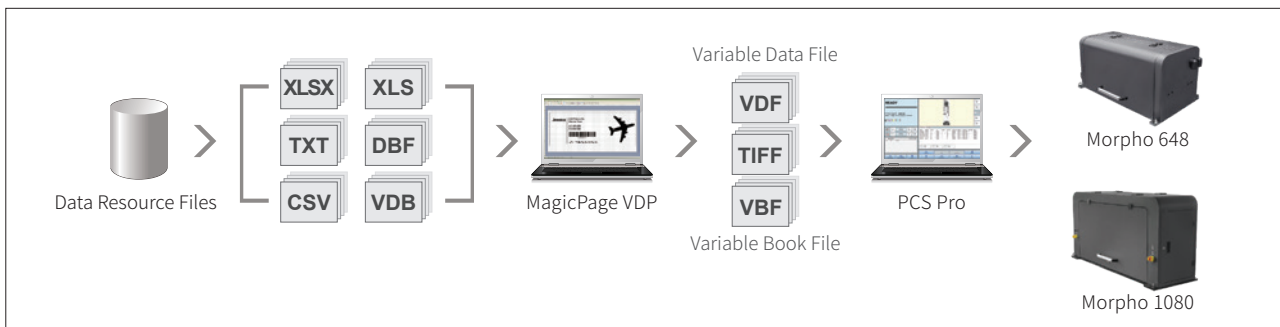
Printing Control Cabinet

PRINT PRODUCTIVITY

Head Modules		Morpho 648/ 1080	
		Standard Speed Kyocera KJ4	Double Speed Kyocera KJ4
Print Head Model		Standard/ High Speed Print Head	Standard/ High Speed Print Head
Water-based Ink	600 × 300dpi	150/ 200m/ min. (492/ 656ft/ min.)	300/ 400m/ min. (984/ 1312ft/ min.)
	600 × 600dpi	75/ 100m/ min. (246/ 328ft/ min.)	150/ 200m/ min. (492/ 656ft/ min.)
UV Ink	600 × 300dpi	100/ 150m/ min. (328/ 492ft/ min.)	200/ 300 m/ min. (656/ 984ft/ min.)
	600 × 600dpi	50/ 75m/ min. (164/ 246ft/ min.)	100/ 150m/ min. (328/ 492ft/ min.)

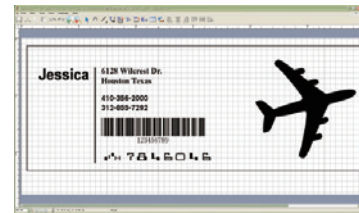
EFFICIENT WORKFLOW

As comprehensive monochrome VDP inkjet printing engines, Morpho 648/ 1080 work seamlessly with MagicPage and PCS Pro to achieve efficient VDP workflow.

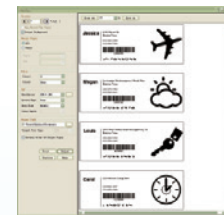


Unique Variable Data Printing Software - MagicPage

- Supports various types of objects, such as texts, dates, time, graphics, barcodes, and photo images
- Customized template and layout design
- Extensive field-editing tools for large quantity of variable data and static text
- Supports multiple data source files for variable data, including .CSV, .XLS, .XLSX, .TXT and .VDB files
- Real-time and intuitive RIP output preview
- Embedded barcode, serial number and MICR maps



MagicPage Main Window



MagicPage RIP Window

User-friendly Printing Control Software - PCS Pro

- Specifically customized for variable data printing of single-pass inkjet printing engine
- User-friendly and graphical interface
- Remote printer control, printing parameters setting, and printer status monitoring
- Easy operation and maintenance of the printer
- Embedded test patterns for nozzle check and head alignment
- Online inspection and automatic rectification system ensures accurate printing position by monitoring and analyzing pre-printed marker in real time



PCS Pro Main Window

Morpho 648/ 1080 support monochrome fonts and barcodes

- Graphics, Numeric Codes, Time, and Serial Numbers
- True Type and Open Type
- 1-D Barcodes: EAN 13, EAN 8, Code 39, Code 128, Codabar 2 Widths, GS1 DataBar (RSS-14), Interleaved 2 of 5, UPC-A, and USPS PostNet
- 2-D Barcodes: PDF417, QR-Code, and Data Matrix
- E-13B and CMC-7 font (MICR standard support available for check printing)



EAN 13



QR Code



PDF417

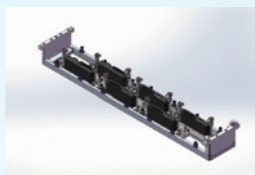


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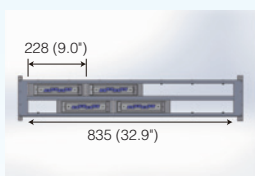
Easily integrated into existing press as a digital add-on module, turning it into a cost-effective digital press.

The arrangement of heads on the head plate can be customized for different configurations, with several print heads staggered or paralleled in two rows and flexible mechanical adjustment of each head.

MORPHO 648



Standard Model



No. 432 Model

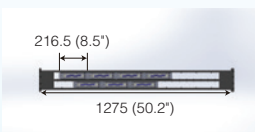
Model *	Diagram	Print Width	Number of Heads
Standard		648mm	6
No. 540		540mm	5
No. 432		432mm	4
No. 108 × 3		108mm (3 groups)	3
No. 216 × 2		216mm (2 groups)	4
No. 108D × 3		108mm (3 groups; Double Speed)	6

* For more configurations, please contact us.

MORPHO 1080



Standard Model



No. 756 Model

Model *	Diagram	Print Width	Number of Heads
Standard		1080mm	10
No. 972		972mm	9
No. 864		864mm	8
No. 756		756mm	7
No. 108 × 5		108mm (5 groups)	5
No. 108D × 5		108mm (5 groups; Double Speed)	10

* For more configurations, please contact us.

APPLICATIONS

Envelopes | Business Forms | Security Printing | Labels | Packaging | Tickets | Books | Lotteries/ Bingos



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