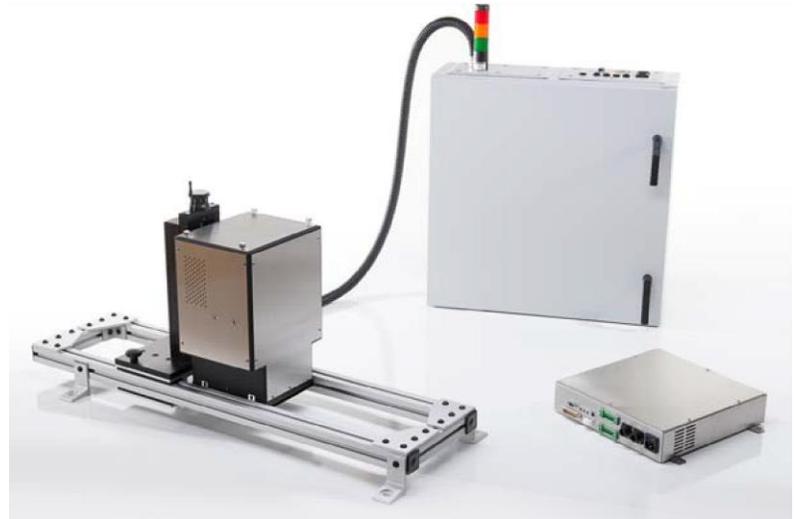XiJet's Gemini Series color piezo inkjet printers are turnkey systems designed to print photo-quality images, logos, and variable data in a single pass onto a variety of substrates. They easily attach to your press, vacuum transport, or web transport.

The combination of 108 mm (4.25") print head width and speed up to 101 m/min (333 fpm) at 600 x 600 dpi make Gemini one of the highest performing inkjet printers available today.

Gemini Series printers are available for both UV curable and water-based inks. They are well suited for a variety of color print applications, including label printing, plastic card printing, coding and marking, transactional printing and promotional mailing.

Print Head Module on Mount Frame, Ink System, Formatter Box

Print with Confidence!

FEATURES AND BENEFITS

Turnkey System — The Gemini turnkey printer quickly attaches to your transport and works together as a seamless unit. A la carte components are also available

Broad Substrate Compatibility — Print permanent, durable images with UV-curable inks onto plastic, coated labels or card stock, and other difficult substrates. Use water-based inks to print onto porous substrates like paper, cardboard, or envelopes

Wider Print Heads — At 108 mm (4.25") per print head, Gemini covers a wider print width with fewer print heads and less stitching

Fastest Piezo Inkjet — Gemini uses some of the fastest piezo print heads on the market, with a 30 kHz firing rate for UV and 40 kHz for water-based inks. The max print speed is 101 m/min (333 ft/min) at 600 x 600 dpi and 203 m/min (667 ft/min) at 600 x 300 dpi

Process Color Printing — Print solids (e.g. logos) and photo quality images with easy-to-use color matching tools and precise color reproduction

Robust Ink System — Precise meniscus vacuum control ensures reliable print head operation and consistent print quality. Top off ink while printer is running

Flexible Software — Use our feature-rich but easy-to-use Composer job layout software, with advanced features like Color Matching, Multi-page PDF, Proofing, Read and Print, Supervisor Mode, and Composer Remote Interface

Specifications

Inkjet System	
Inkjet Technology	Piezoelectric Drop-on-demand
Turnkey System Components	Print Head Module, Mounting Frame, Formatter Box, Ink Supply System, UV Curing System (option), Encoder, Photo Sensor, Cables, Composer Job Layout Software
Print Head Widths	108 mm (4.25"), 214 mm (8.43"), Custom
Print Resolution (nominal)	600 x 600 dpi
Firing Rate	Water-based Inks @ 40 kHz; UV Curable Inks @ 30 kHz
Firing Mode	Binary, Grayscale
Media Types	Web, Sheet-fed
Ink Source	Bulk Fed from XiJet Xodiac Ink Supply System
Ink Formulations	Water-based, UV Curable
Ink Colors	Process Color (CMYK), Spot Colors, White, Varnish
UV Curing System (option)	LED-based
Job Layout Software	XiJet Composer (Windows-based), Customer Application (via DLL)
Print Data Types (Composer)	Multi-page PDF (option), Text (ANSI, UNICODE), Barcodes (100+ types), Graphics, Database Fields, Counters, Date/Time
External Interfaces	
Data Interfaces	USB 2.0, RS-232
Encoder and Print Trigger Inputs	Externally Generated or Simulated by Printer (time-based)
Auxiliary Outputs	4 Solid State Relays Controllable via Composer

Print Head Module Configurations	Print Width	Ink Formulations	Droplet Size	Max Print Speed @ 600 x 600 dpi	Max Print Speed @ 600 x 300 dpi
Gemini 108C	108 mm (4.25")	Water-based	Up to 12 pL	101 m/min (333 ft/min)	203 m/min (667 ft/min)
Gemini 214C	214 mm (8.43")	Water-based	Up to 12 pL	101 m/min (333 ft/min)	203 m/min (667 ft/min)
Gemini 108C-UV	108 mm (4.25")	UV Curable	Up to 14 pL	76 m/min (250 ft/min)	152 m/min (500 m/min)
Gemini 214C-UV	214 mm (8.43")	UV Curable	Up to 14 pL	76 m/min (250 ft/min)	152 m/min (500 m/min)