VERSAPASS THERMAL INKJET PRINTHEAD

The 70,400-nozzle thermal inkjet printhead - foundation of the VersaPass Memjet printing system

THE PERFORMING POWER OF THE VERSAPASS PRINTHEAD

Memjet's VersaPass printhead features five independent ink channels, each 1600 npi (nozzles per inch), with an active array width of 222.8 mm (8.77 in). Each channel is made up of two linear nozzle arrays, spaced at 800 npi and offset from one another by 1/1600 in. Ten nozzle rows achieve the five-channel 1600 npi architecture.

The nozzle array has an efficient layout with a total print zone width of 0.72 mm. This narrow print zone simplifies the media path in printer designs.

Ink can recirculate through the printhead, into one end of the manifold structure and out the other. This recirculating functionality improves priming efficiency at start-up, as well as bubble removal, for better image quality.

In addition to improving performance, the printhead's fixed-head architecture also reduces the noise, vibration, and mechanical complexity associated with other traditional swathing inkjet architectures that shuttle the printhead back and forth across the width of the media.

Single-pass Printing:
A key feature of Memjet's VersaPass ink printhead is its ability to print up to 222.8 mm wide with a single printhead on A4 and Letter sized papers. In addition, multiple Versa-Pass printheads can be configured in an array to support single-pass printing on wider media.

INKJET PRINTHEAD MAIN FEATURES

- Five independent ink channels

- Active array width of 222.8 mm (8.77 in)

- 1600 dpi native resolution

LEARN MORE

Memjet-powered printers are sold only through authorized Memjet partners. For more information on OEM partners, or how to become an OEM partner, please visit memjet.com

VERSAPASS™
BY MEMJET®

VERSAPASS THERMAL INKJET PRINTHEAD

PRINTING CAPABILITIES

Number of Ink Channels:	5 channels, supporting CMYKK, CMYK, CMY, and single-color printing
Native Resolution:	1600 dpi, 1375 dpi, 1135 dpi, 800 dpi, 725 dpi, 555 dpi
Ink Type:	Aqueous dye
Drop Size:	~1.2 pL
Firing Frequency:	9.6 kHz to 14.25 kHz
Maximum Printable Width:	Nominally 222.8 mm (8.7 in), varying by requirements
	of specific engine/component
	Side-by-side engine: 432 mm (17 in)
Paper Size:	Prints on any width, as determined by the media handling system
Wide Format Engine:	1067 mm (42 in)

REGULATORY COMPLIANCE

ESD:	CISPA 24
	Indirect: 8 kV
	Contact with printer pads: 2 kV
	(Tested in accordance with IEC 61000-4-2)
Marketing and Labeling:	Standard marketing & labeling includes CE mark, country of origin, and international standard
	recycling symbols. Additional marketing & labeling upon request.
Environmental Protection:	RoHS (EU Directive 2011/65/EC)
	WEEE (EU Directive 2012/19/EC)
	This article does not contain REACH SVHCs
Safety:	Complies with EN 60950.1, UL 60950 & national variants as component not requiring a fire enclosure
EMC/EMI:	Emissions: Complies with EN 55022 (Class B) and national variants, and with FCC Title 47 Part 15
	Subpart B (Class B) when used in an appropriately designed printer.

DIMENSIONS AND WEIGHT

Dimensions:	Width: 267.5 mm (10.5 in)
	Height: 49.7 mm (1.96 in)
	Depth: 34.5 mm (1.36 in)
Weight:	Average = 108.5 g

OPERATING ENVIRONMENT

Temperature:	15°C to 30°C (59°F to 86°F). Maximum rate of change: ± 0.5°C/min (± 0.9°F/min)
Humidity:	35% to 80% RH non-condensing
Atmospheric Pressure:	70 kPa to 106 kPa

STORAGE AND TRANSPORT ENVIRONMENT

Temperature:	5°C to 45°C (41°F to 113°F). Maximum rate of change: ± 0.5°C/min (± 0.9°F/min)
Humidity:	20% to 80% RH non-condensing
Atmospheric Pressure:	70 kPa to 106 kPa