



STARFIRE® PHASEMASTER

Hot Melt Inkjet Printhead

Designed for Coding & Marking,
Graphics, Nonwoven and Packaging

The innovative FUJIFILM Dimatix STARFIRE® PhaseMaster inkjet printhead is designed to meet the demanding needs of applications that benefit from phase change hot-melt inks. It is purpose-built for today's demanding high-speed scanning and single-pass industrial system designs. The STARFIRE® family of drop-on-demand printheads simply integrates into high performance systems with print resolution up to 400dpi. The head can be configured with and without recirculation. It uses durable materials to deliver consistent output over a long service life with or without REDIJET® recirculation. The printhead is fully repairable. It is equipped with a replaceable metal nozzle plate assembly that is designed to withstand abrasion and resist damage. The unit is compatible with hot-melt inks for industrial and graphic applications.

Performance

- 400DPI resolution with 30-200pL drop size
- Integrated heater and temperature sensor ensuring optimal jetting conditions
- Wide viscosity latitude of 8-20cP (10-14cP for maximum productivity)
- Design for continued operation at temperatures up to 125°C
- Versadrop binary and grayscale jetting with open and editable waveform utility

Productivity

- Jet design, with REDIJET® Energy Dissipation technology enabling sustained quality output
- REDIJET® Dual Recirculation for reliable jetting*
- Multi-pulse jetting up to 30kHz delivering speeds over 60 meters/min at 400 dpi**
- High ink laydown capability at 57 grams per square meter at production speed ***

* The printhead can run without recirculation
** 400x200 dpi
*** 20 Meters Per Minute

Durability

- Industrial capabilities that meet customer demands in the most difficult industrial environments
- Robust, repairable design enabling cost-effective maintenance and support
- FUJIFILM Dimatix Bulk PZT actuators are insulated from direct contact with fluids
- The STARFIRE® PhaseMaster is designed to reliably jet phase-changing solid inks

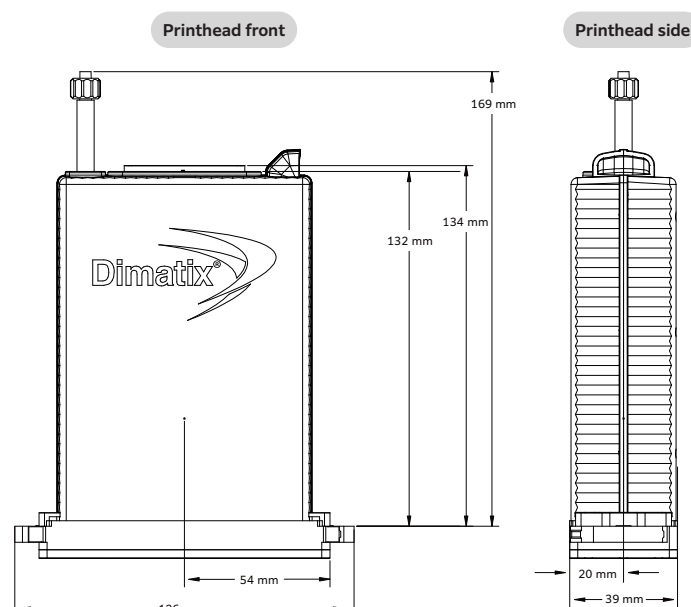
Support

- Backed by industry-leading support organization
- Dedicated worldwide field organization to ensure successful product development
- Lab and quality assurance investigative team to ensure satisfaction with FUJIFILM Dimatix products through your product lifecycle

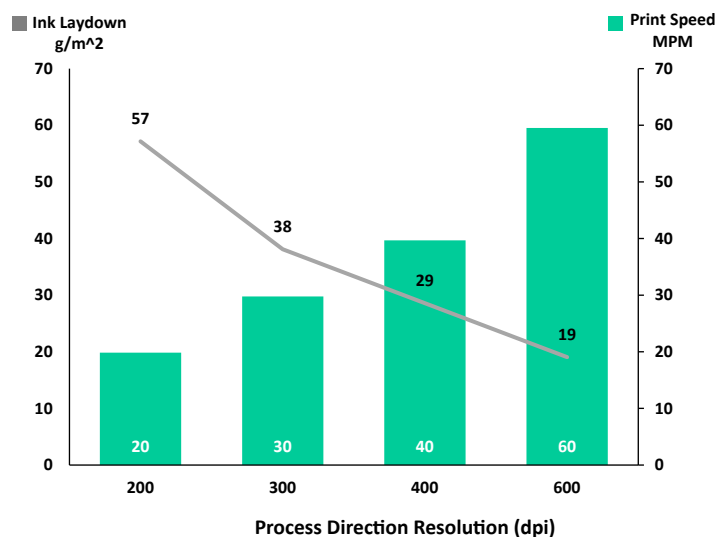
Technical Specifications

STARFIRE PHASEMASTER	PM1024M	PM1024L
Number of Addressable Jets / Module	1024	
Print Width (mm/in)	65/2.55	
Native Resolution (dpi)	400	
Native Drop Size / Largest Drop Size (pL)	30pL	80pL
Versadrop Max Productivity (ng-kHz & Fluid Dependent)	900	1500
Firing Frequency (kHz)	30	20
Nozzle Plate Technology	Metal	
Compatible Fluids	Solid ink (hot melt)	
Viscosity Range (cP)	8-20cP (10-14cP for maximum productivity)	
Temperature Control	Yes	
Inkjet Operating Temperature Range (C/F)	Up to 125°C /257°F	
Integrated Temperature Sensor	Built-in Heater and Thermistor	
OEM Accessible Non-volatile Memory	64-byte rewritable	

Physical Characteristics



PM1024 Productivity



Product characteristics and depictions are not drawn to scale and are general illustrations only. Technical specifications above may vary based on usage conditions and overall system environment.

For design and engineering work using this STARFIRE printhead, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

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