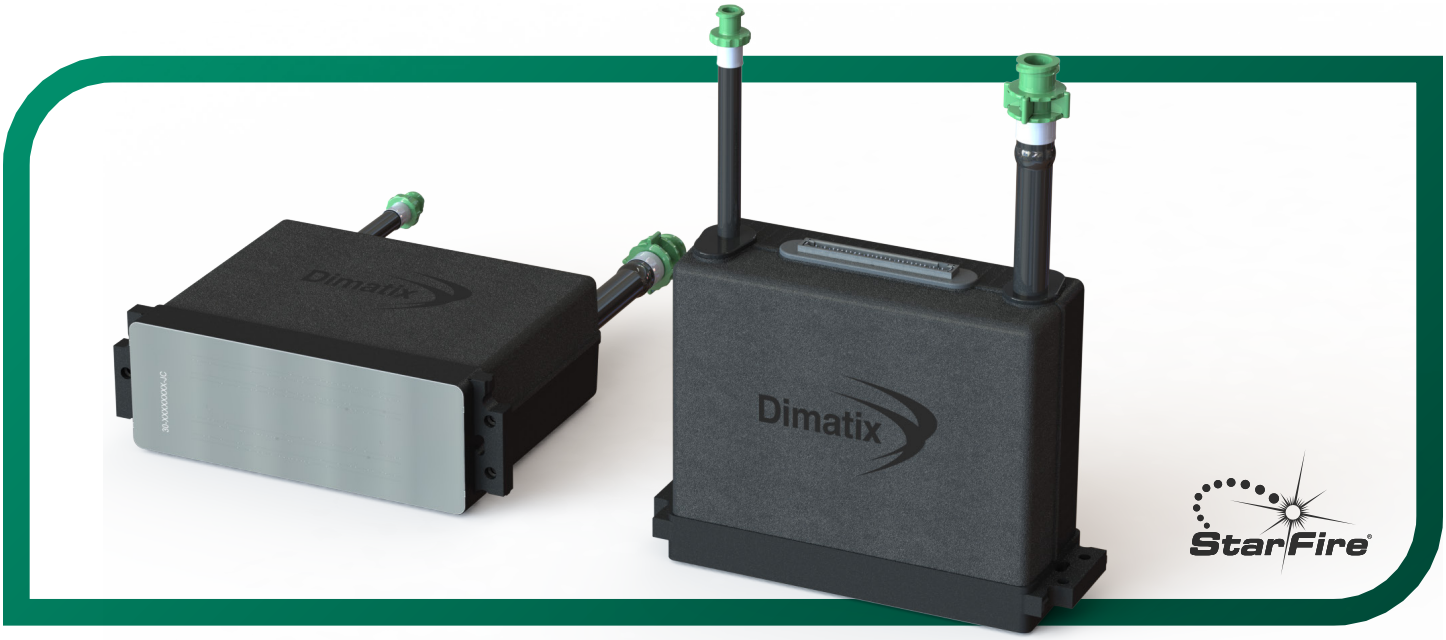
FUJIFILM
Value from Innovation



STARFIRE® SG1024

F-Series

| Designed for Aggressive Fluids

FUJIFILM Dimatix STARFIRE SG1024 next generation printhead is addressing growing market needs for a high performance and reliable printhead used with applications requiring aggressive fluids. The FUJIFILM Dimatix STARFIRE SG1024 uses field-proven materials to deliver consistent output over a long service life with REDIJET® continuous ink 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. Incorporating 10+ years of continued innovations the FUJIFILM Dimatix STARFIRE SG1024 printhead platform is designed to support binder-jet applications that use aggressive fluids while providing high-part fidelity and system uptime.

Performance

- 400dpi resolution with drop sizes ranging from 30–200pl that allow for optimal and efficient use of fluids
- Reliably use challenging jetting fluids
- Versadrop binary and grayscale jetting with open and editable waveform utility
- Supporting varying product needs from prototyping to high-end production systems

Productivity

- High fluid laydown of 50 grams per square meter of ink per minute* at production speed for high-quality output
- REDIJET® — Dual recirculation for reliable jetting & fast system start-up
- Maximize Uptime for high productivity and return on investment

*20kHz with 200pL drop using test fluid

Durability

- Industrial capabilities meet customer demands in production environments
- Robust (repairable) design enabling cost-effective maintenance and support
- Cost-effective repairs and maintenance

Support

- Backed by an exceptional 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

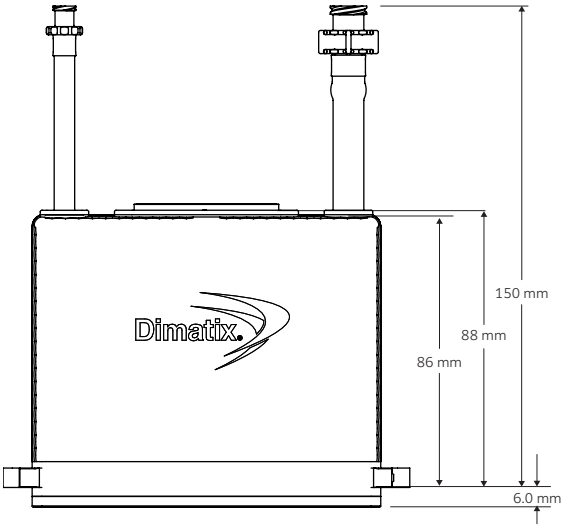
Dimatix

Technical Specifications

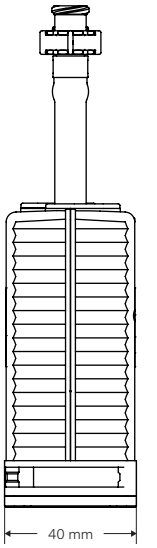
STARFIRE SG1024	M3F	L3F
Number of Addressable Jets / Module	1024	
Print Width (mm/in)	64.96 (2.55)	
Native Resolution (dpi)	400	
Firing Frequency (kHz)	30 / 12	20 / 12
Versadrop Max Productivity (ng-kHz)	300	1500
Native Drop Size / Largest Drop Size (pL)	30 / 80	80 / 200
Nozzle Plate Technology	Metal	
Compatible Fluids	Aggressive fluids used in sand casting and metal sintering	
Viscosity Range (cP)	8–20 (10–14 for highest productivity)	
Temperature Control	Yes	
Inkjet Operating Temperature Range (C/F)	Up to 50°C / 122°F	
Integrated Temperature Sensor	Included	
OEM Accessible Non-volatile Memory	64-byte rewritable	

Physical Characteristics

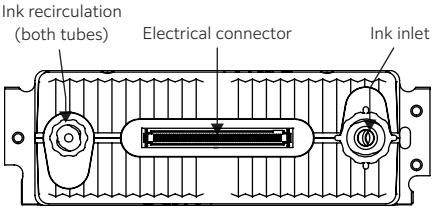
Printhead Front



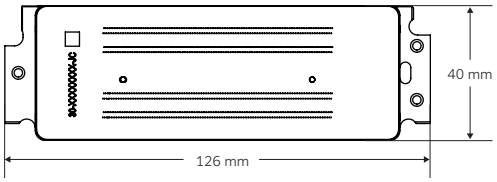
Printhead Side



Printhead Top



Nozzle Plate



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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