

STARFIRE® Printhead Family

Unlock the full potential of your next digital inkjet platform.

The FUJIFILM STARFIRE® printhead family delivers comprehensive and versatile solutions for your inkjet development needs in a broad range of industrial applications. The FUJIFILM STARFIRE product portfolio is a path to a productive, reliable, and high quality digital printing system.



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Printhead Features

The FUJIFILM Dimatix STARFIRE product family is purpose-built for today's demanding high-speed single-pass and scanning industrial systems designs. It includes a range of high-performance piezoelectric drop-on-demand printheads that includes one or two-channel configurations. It uses field proven components to deliver consistent output over a long service life with REDIJET® continuous down to the nozzle ink recirculation. The printheads are fully repairable and equipped with a replaceable metal nozzle plate assembly that is designed to withstand abrasion and resist damage.

Performance

- 400dpi and 600dpi configurations with drop sizes ranging from 6–200pl that allow for optimal and efficient use of inks and functional fluids
- Versadrop binary and grayscale jetting with open and editable waveform utility
- Single and two-channel configurations
- 2-bit greyscale capable

Productivity

- Enables jetting at speeds exceeding 190m/ min to meet high productivity applications or significant fluid laydown up to 1,500 ng*kHz for high coverage applications .
- REDIJET® — Down to the nozzle dual recirculation for reliable jetting & support fast system start-up
- Maximize uptime for high productivity and return on investment

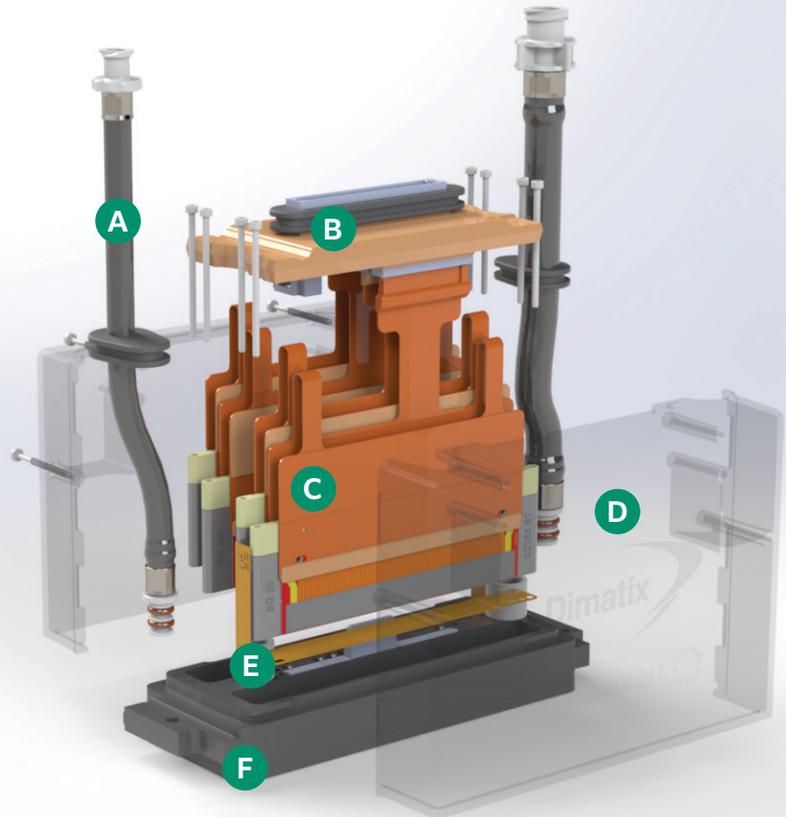
Durability

- Industrial design to meet the conditions in challenging production environments
- Robust (repairable) design enabling a cost-effective maintenance and support model
- Common printhead architecture for reliably using broad range of inks and functional fluids.

Support

- Backed by an exceptional worldwide support organization
- Participate in product development in existing and emerging applications
- Lab and quality assurance investigative team that collaborate with our partners to ensure performance, productivity, and durability for their products.

Fully Repairable Design



A Inlet/outlet tubing

D Printhead cover

B HIB board

E Filter

C Jetting array

F Collar/nozzle plate



Incorporates FUJIFILM Dimatix patented core technologies



Scan to learn more!

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Market Highlights

FUJIFILM Dimatix enables high-quality inkjet and functional material deposition in a wide range of markets and applications. Our printheads meet our customers' need for reliable, productive and consistent industrial manufacturing solutions.



Textiles

Inkjet printing placements in the textile industry will grow 14% CAGR '19 - '25 (IT Strategies 2021). New creatives and designers are helping to drive demand, attracted by the high quality and creative flexibility of inkjet technologies. FUJIFILM Dimatix serves this market with a portfolio of long-lasting STARFIRE SG1024 & SG600 printheads, which provide global users exceptional quality and robust reliability.



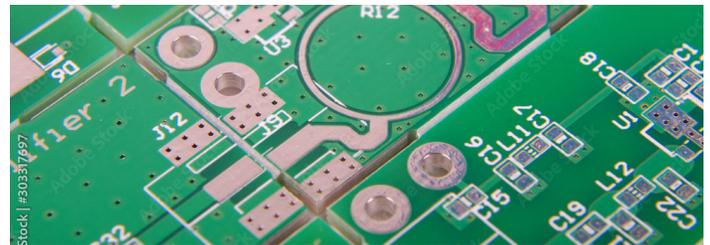
Ceramic

Inkjet printing technology has transformed the manufacture of ceramic tile, making possible rapid realistic reproductions of stone, wood or brick surfaces. It can also add realistic texture to the touch. FUJIFILM Dimatix's reliable, productive, industrial- class STARFIRE printheads meet the rigorous industry requirements by producers and OEMs for productivity, reliability, and quality. Now compatible with both solvent/oil based and water based ceramic fluids.



Packaging

Packaging is moving from mass production to mass customization, enabled by the flexibility and agility of digital printing technology. Demand for product variety, shorter runs and compressed production times are enhancing capabilities across the industry - from corrugated packaging to folding cartons. Flexible, agile, robust FUJIFILM Dimatix's STARFIRE technology stands out when high uptime and output quality rank high with producers.



PCB

To meet demand for electronic devices, printed circuit-board manufacturers need speed, automation and flexibility to sustain rapid prototyping, robust performance in custom-batch environments, reliable uptimes and faster times to market. FUJIFILM Dimatix's STARFIRE digital inkjet printheads featuring VersaDrop jetting technology provide all that, and achieve the high accuracy and the quality needed for legend printing and mask patterning.



Additive Manufacturing

The disruption of manufacturing by 3D printing (a.k.a. additive manufacturing) continues as producers create evermore complex assemblies in a single piece. FUJIFILM Dimatix's robust inkjet technology is used in top polyjet and jet binding applications. Our STARFIRE printheads with VersaDrop jetting technology, deliver drop-size ranges, dot accuracies, and part fidelity demanded by even the newest metals and furan castings.



Sign & Display

Graphically stunning indoor and outdoor signage and promotion now seem traditional, but leading providers are also looking for improvements in total cost of ownership and durability for their machines. Our STARFIRE printheads using REDIJET and VersaDrop jetting technologies with a wide drop-size range enable quick times to market with robust industrial solutions that keep producers in reliable, sustained production.

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Product Portfolio

Product Family	Printheads	Application	Ink/Fluid Compatibility	Native Resolution
 <p>SG1024</p>	SG1024/XSC	Tile Decoration	Oil/Solvent	400 dpi
	SG1024/SC			
	SG1024/MC	Tile Decoration, Glazes, Metallic		
	SG1024/LC	Glazes, Englobe, Glue, Ceramic Enamels, Structured Surfaces, Glossy, Luster, Sinking, Anit-Slip, Transparent		
	SG1024/MCHF	Tile Decoration, Glazes, Metallic		
	SG1024/LCHF	Glazes, Englobe, Glue, Ceramic Enamels, Structured Surfaces, Glossy, Luster, Sinking, Anit-Slip, Transparent		
	SG1024/AQMH	Tile decoration, Glazes, Metallic	NEW Aqueous Ceramic	
	SG1024/AQLH	Glazes, Englobe, Glue, Ceramic Enamels, Structured Surfaces, Glossy, Luster, Sinking, Anit-Slip, Transparent		
	SG1024/XSA	Wideformat Graphics, Direct to Fabric, Wraps, PVC, Steel, Alum, KTBoard, Decorative Glass, 1-Way Vision, Sheet	UV Curable, Organic/Eco Solvent, Reactive, Acid, Dye Sublimation, Disperse Dye, AQ Pigment, Frit	200 dpi
	SG1024/SA			
	SG1024/SA2C			
	SG1024/MA	Wideformat Graphics, Direct to Fabric, Wraps, PVC, Steel, Alum, KTBoard, 1-Way Vision, Sheet, Additive Manufacturing	400 dpi	
	SG1024/MA2C	Wideformat Graphics, Direct to Fabric, Wraps, PVC, Steel, Alum, KTBoard, 1-Way Vision, Sheet	200 dpi	
	SG1024/LA	Wideformat Graphics, Direct to Fabric, Steel, Alum, KTBoard, 1-Way Vision, Sheet, Carpet Decoration, Additive Manufacturing	Aqueous, UV Curable, Organic/Eco Solvent, Dye Sublimation	400 dpi
	SG1024/LA2Ci	Wideformat Graphics, Direct to Fabric, PVC, Steel, Alum, KTBoard, 1-Way Vision, Sheet, Carpet Decoration		200 dpi
 <p>SG600</p>	SG600/XSC	Tile Decoration	Oil/Solvent	600 dpi
	SG600/SC			
	SG600/MC2C			300 dpi
	SG600/XSA	Wideformat Graphics, Direct to Fabric, Wraps, PVC, Steel, Alum, KTBoard, 1-Way Vision, Sheet	Aqueous, UV Curable, Organic/Eco Solvent, Dye Sublimation, Aq Frit	600 dpi
	SG600/SA			
	SG600/SA2C			300 dpi

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