



# DMP - 2850 S

## *Dimatix Materials Printer*

The FUJIFILM Dimatix Materials Printer (DMP) is a benchtop materials deposition system designed for micro-precision jetting a variety of functional fluids onto virtually any surface, including plastic, glass, ceramics, and silicon, as well as flexible substrates from membranes, gels, and thin films to paper products.

Designed for Precision Jetting  
of Functional Fluids

### Unique Si-MEMS Design

- Designed to use low-cost, disposable, user-filled SAMBA® cartridges
- Superb drop placement accuracy and uniformity for high quality printing
- Broad fluid compatibility (UV, Aqueous, Solvent, Acidic or Basic fluids)
- REDIJET® Coating (RJC) nonwetting coating and internal protective coating to meet various application requirements
- Wide range of drop sizes
- Allows for easy scale up to the SAMBA® printhead for industrial use

### Optimized for Research

- Heated cartridge and platen
- Cartridge cleaning station for reliable jetting
- Integrated fiducial camera for repeatable alignment of a print
- Integrated drop observation camera
- Variable jetting resolution and pattern creation
- Versadrop binary and grayscale jetting with open and editable waveform utility
- Full user control of the pattern, waveform, and cleaning cycle
- Create a batch printing cycle with print job and print queue
- New drop analysis capabilities

### Support

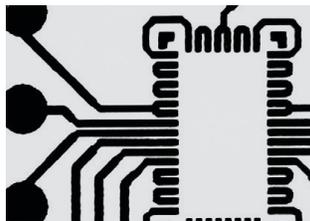
- Easy self installation
- Technical Support portal with documentation and direct support

### New Features in the DMP-2850 S

- Upgraded more powerful computer
- More durable encoders
- New software features like print job for batch printing and drop analysis

# Technical Specifications

Dimatix® Materials Printer (DMP-2850 S)	
Printable area	Substrate < 0.5 mm thickness: 208 mm x 308 mm (8.19 in x 12.13 in) Substrate 0.5 - 25 mm thickness: 208 mm x 253 mm (8.19 in x 9.96 in)
Repeatability	± 25 µm (± 0.001 in)
Substrate Holder	Vacuum platen; Temperature adjustable; ambient to 60° C (140° F)
System Footprint	673 mm x 584 mm x 419 mm (26 in x 23 in x 16 in)
Weight	Approximately 55 kg (121 lbs)
Power	100-120/200-240 VAC 50/60 Hz 375 W maximum
Operating Range	15-40° C (59-104° F) at 5-80% RH non-condensing
Compatible Fluids	Wide variety of functional fluids
Altitude	up to 2000 m
Safety and EMC compliance	Safety: NRTL Certified to IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016 EMC: FCC Part 15 Subpart B:2024, ICES-001 Issue 7:2020, IEC 61000-6-4:2018



## Replaceable Cartridge

The Dimatix Materials Cartridge is designed for high-resolution, non-contact jetting of functional fluids in a wide range of applications.

- Piezo-driven jetting device with integrated reservoir and heater  
Usable Ink Capacity: Up to 1.5 ml (user-fillable)
- Materials compatibility: Many water-based, solvent, acidic or basic fluids
- SAMBA® cartridge
  - 12 nozzles, single row, 75 DPI
  - 2.4 pL drop volume, 30 µm dot size (results may vary)

## Fiducial Camera

- Allows substrate alignment using reference marks
- Allows positioning a print origin or reference point to match substrate placement
- Provides measurement of features and locations
- Provides inspection and image capture of printed pattern or drops
- Provides cartridge alignment when using multiple cartridges
- Allows matching drop placement to previously patterned substrate

## Accessories

- Print Cartridges 5-pack
- Fill Syringes
- Filters (above)
- Drop watching pads
- Cleaning station blot pads
- Model fluid for use with preloaded settings to verify functionality and use case

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

## FUJIFILM

**Corporate Office:**  
FUJIFILM Dimatix, Inc.  
2250 Martin Avenue  
Santa Clara, CA 95050  
USA  
Tel: 1 (408) 565-9150  
info@dimatix.com

**New Hampshire Facility:**  
FUJIFILM Dimatix, Inc.  
109 Etna Road  
Lebanon, NH 03766  
USA  
Tel: 1 (603) 443-5300  
info@dimatix.com

**Inkjet Business Division:**  
FUJIFILM Corporation  
7-3, Akasaka 9-chome  
Minato-ku, Tokyo 107-0052  
Japan  
Tel: +81 3 6271 3971  
dgi-ff-ijhead@fujifilm.com

**China Office:**  
FUJIFILM Dimatix China  
Service Center Building 30,  
1000 Jinhai Road  
Pudong New Area, Shanghai  
China 201206  
china@dimatix.com

**Europe Office:**  
euro@dimatix.com  
Korea Office:  
mdkorea@dimatix.com  
Singapore Office:  
mdsingapore@dimatix.com  
Taiwan Office:  
mdtaiwan@dimatix.com

www.fujifilm.com/us/en/business/inkjet-solutions

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