

								Attributes
Application	Graphics & Materials Deposition	Materials Deposition	Materials Deposition	Materials Deposition	Materials Deposition	Graphics & Materials Deposition	Graphics & Materials Deposition	
Type	Scanning & Single Pass	Scanning	Scanning	Scanning	Scanning	Single Pass	Single Pass	
Format	2.5 in	200 x 300 mm	300 x 300 mm	500 x 500 mm	500 x 500 mm	2.5 x 10 in. x n @ 400 dpi	2.5 x 30 in. x n @ 400 dpi	
Special Features	Self-contained	Table-top	Floor-standing	Floor-standing	Floor-standing			
Heated platen		✓	✓	✓	✓			Vacuum controlled & heated up to 60°C
Theta rotation		✓	✓	✓	✓			For substrate alignment
Tunable nozzles		✓	✓	✓	✓			Each nozzle individually trimable
Saber rotation	✓	✓	✓	✓	✓			
Drop visualization	Supported	✓	✓	✓	✓	Supported	Supported	Droplets captured for PH tuning and waveform development
Fiducial alignment camera		✓	✓	✓	✓			Substrate alignment, measurement of features and feature locations
Head alignment camera			✓	✓	✓			Facilitates auto printhead alignment
Data formats	BMP, JPG, TIFF, PNG, PDF, EPS	BMP, JPG, TIFF, PNG, PDF, EPS, Gerber	BMP, JPG, TIFF, PNG, PDF, EPS, Gerber	BMP, JPG, TIFF, PNG, PDF, EPS, Gerber	BMP, JPG, TIFF, PNG, PDF, EPS, Gerber	BMP, JPG, TIFF, PNG, PDF, EPS	BMP, JPG, TIFF, PNG, PDF, EPS	Industry standard data formats
Productivity	< 0.8 g/sec	< 0.01 g/sec	< 0.01 g/sec	< 0.01 g/sec	< 0.01 g/sec	1.5 g/sec	9 g/sec	Grams per second
Ink thermal range	Up to 125°C	Up to 70°C	Up to 70°C	Up to 70°C	Up to 70°C	Up to 125°C	Up to 125°C	
Number of colors	4 in parallel	1	1	1	5 in serial	4 in parallel	8 in parallel	
Warranty	✓	✓	✓	✓	✓	✓ with fluids bundle	✓ with fluids bundle	
UV Cure lamp	Supported					Supported	Supported	
Auto fluid fill			✓	✓	✓	✓	✓	Allow system to be integrated with factory control
Communications								Allow system to be integrated with factory control
Digital I/O interface						✓	✓	Allow system to be integrated with factory control
DDE/OPC						✓	✓	
Ethernet IP						✓	✓	
Options								
HEPA filter				✓	✓			
Media transport						✓	✓	
No. of Triggers						1	4	Optical edge detection
Encoder(s)	✓					✓	✓	
Onsite training & installation	✓	✓	✓	✓	✓	✓	✓	
Graphic Printheads								
Nova	✓					✓	✓	256-jet, 50, 80 pl.
Galaxy	✓					✓	✓	256-jet, 50, 80 pl.
S-Class	✓					✓	✓	128-jet, 30, 50, 80 pl.
Q-Class	✓					✓	✓	256-jet, 10, 30, 80 pl.
Materials Deposition Printheads								
DMC-11601		✓	✓	✓	✓			16-jet, 1 pl, Si-MEMS, driver per nozzle
DMC-11610		✓	✓	✓	✓			16-jet, 10 pl, Si-MEMS, driver per nozzle
D-128/1 DPN			✓	✓	✓			128-jet, 1 pl, Si-MEMS, driver per nozzle
D-128/10 DPN			✓	✓	✓			128-jet, 10 pl, Si-MEMS, driver per nozzle
SX3			✓	✓	✓			128-jet, 8 pl, silicon nozzle plate, driver per nozzle
SE-DPN			✓	✓	✓			128-jet, 30 pl, electroformed nickel-gold plated nozzle, driver per nozzle
SE3			✓	✓	✓			128-jet, 35 pl, silicon nozzle plate
Max. No. Printheads	4	1	1	1	5	16	64	
CE Compliant	✓	✓	✓	✓	✓		✓	
Fluids/Inks								
Aqueous	✓	✓	✓	✓	✓	✓	✓	
Solvent	✓	✓	✓	✓	✓	✓	✓	
UV-Curable	✓	✓	✓	✓	✓	✓	✓	
Hot-melt	✓					✓	✓	
Food Grade						✓	✓	
Others		✓	✓	✓	✓	Conditional	Conditional	Functional fluids
Product Use	<ul style="list-style-type: none"> Evaluate current & new printheads Ink development tool Verify scan systems designs Verify ink jetting performance Verify fluid/substrate interaction 	<ul style="list-style-type: none"> Lab development tool Functional fluids development Process development Produce initial prototypes Verify jetting properties Verify fluid/substrate interaction 	<ul style="list-style-type: none"> Larger format development/prototyping tool Functional fluids development Process development Small volume prototype production Verify jetting properties Verify fluid/substrate interaction Scale-up initial designs 	<ul style="list-style-type: none"> Largest format development/prototyping tool Functional fluids development Process development Small volume prototype production Verify jetting properties Verify fluid/substrate interaction Scale-up initial designs 	<ul style="list-style-type: none"> Largest format development/prototyping tool Functional fluids development Process development Small volume prototype production Verify jetting properties Verify fluid/substrate interaction Scale-up initial designs 	<ul style="list-style-type: none"> High-speed single pass printer Fluids development Development/production system Verify fluid/substrate interaction Verify ink jetting performance 	<ul style="list-style-type: none"> High-speed single pass printer Fluids development Development/production system Verify fluid/substrate interaction Verify ink jetting performance 	
Comments	<ul style="list-style-type: none"> Basic inkjet knowledge required Monochrome to full color configurations Various printheads mounting options Variable resolution Most graphic printheads supported Components easy to repurpose 	<ul style="list-style-type: none"> Simple to use and operate Leaning directly transferable to 3000/5000 User fillable cartridges Variable resolution ± 25 μ repeatability Fits within standard glove box Benchmark system 	<ul style="list-style-type: none"> Simple to use and operate Quick changeover between printheads & fluids User fillable cartridges & other printheads Variable resolution ± 1 μ repeatability ± 5 μ accuracy Medium format printable area 	<ul style="list-style-type: none"> Simple to use and operate Quick changeover between printheads & fluids User fillable cartridges & other printheads Variable resolution ± 1 μ repeatability ± 5 μ accuracy Large format printable area 	<ul style="list-style-type: none"> Simple to use and operate Quick changeover between printheads & fluids User fillable cartridges & other printheads Variable resolution ± 1 μ repeatability ± 5 μ accuracy Large format printable area 	<ul style="list-style-type: none"> Components easy to repurpose Monochrome to full color configurations Singulated or contiguous images Scalable & variable resolution NEMA compliant enclosures (also available) Printhead can be up to 35' remote from controller Integration & support by quote Combine systems for increased width & colors Reduce steps with inline operation 	<ul style="list-style-type: none"> Components easy to repurpose Monochrome to full color configurations Singulated or contiguous images Scalable & variable resolution NEMA compliant enclosures (also available) Printhead can be up to 35' remote from controller Integration & support by quote Combine systems for increased width & colors Reduce steps with inline operation 	



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