



Shown with various optional accessories

MINI 4300 SYSTEM

MAXIMIZING INKJET APPLICATIONS



TEXT | GRAPHICS | RFID | QR | BARCODES



Printheads



Inks



Image optimization



Integration

THE SYSTEM

Make More with a Mini

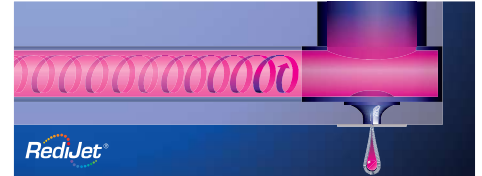
Designed for maximum value at minimal cost, this industrial-grade system is configurable with up to 4 individually controlled printbars for your development or production applications. With capabilities of 1200 dpi at up to 1000 fpm in just a single pass, *small* no longer means *less* and more output means more potential profit.

**Standard with one printbar (UV or aqueous), control cabinet, PC, monitor, keyboard and software.*

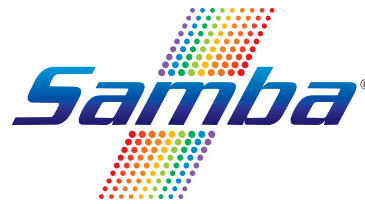
High performance
Single-pass
1200 dpi
Up to 1000 fpm
Upgradable
Cost-effective
Various compatibilities

Quality Technology

Samba drop-on-demand printheads deposit billions of drops per second, each directed to a precise location, producing high resolution single pass imprints at an incredible speed. Each industrial Silicon MEMS constructed printhead has 2,048 nozzles to deliver a native 1200 DPI resolution with an ink drop size as small as 3 picoliters.



The patented RediJet recirculation system ensures printbars are quickly primed, resulting in faster print time, minimal waste and improved reliability.



Mini 4300 Printbar

Parameter	Mini 4300 Printbar
Printbars	Up to 4 discrete printbars
Weight	8.8 Kg [19.4 lbs.]
Dimensions	581 x 190.5 x 92 mm [22.87 x 7.5 x 3.6 in.]
Line speed	up to 1000 fpm [300 m/min]*
Print width per printbar	Single head wide 40.6 mm. [1.6 in.]
Input image file format	TIFF, PDF
Smallest font	4 pt*
Nominal drop size	3 pl
Compatible fluids	dye/pigment based fluids, whites, protective/decorative varnishes, functional fluids

**capabilities may vary depending on application*



Control Cabinet

Parameter	Control Cabinet
Dimensions	764.7 x 223.4 x 762 mm [30.1 x 8.8 x 30 in.]
Weight	39 kg [86 lbs.]
Input	Universal 110–240 single phase VAC 50/60 Hz
I/O	Remote and client
Max current draw	6.3A
Max printbar support	4
Waveform	4 independent

PC/Software

Parameter	PC/Software
PC Interfaces	GUI or remote application over IP
Control system	Windows® 10 graphical user interface
Variable data	Yes



OPTIONAL ACCESSORIES

Head Mount



The Mini 4300 Head Mount is designed to provide an integration solution between the printbar and a transport system, while providing 5 axes of adjustment for high image quality results.

Parameter	Head Mount
Material	Stainless steel, aluminum
Weight	Approximately 11 kg [25 lbs.]
Mounting holes	M8 x 1.25 thread, 25.4 x 25.4 square hole pattern
Yaw adjustment	± 3 degrees
Roll adjustment	± 2.5 degrees
Pitch adjustment	± 2 degrees
Standoff adjustment	19 mm [0.75 in.]
Horizontal coarse adjustment	320 mm [12.6 in.] max
Horizontal fine adjustment	9 mm [0.35 in.]

LED Lamp



The LED lamp is used for UV/LED curable inks. Results may vary.

Parameter	LED Lamp
Size	77 x 90 x 231.3 mm [3 x 3.5 x 9 in.]
Weight	1.82 kg [2.2 lbs.]
Standoff distance	2 mm [0.08 in.]
Noise	54dbA @ 1 m [3.3 ft.]
Max operating temp	35°C [95°F]
Input power	120V
Input signal	Analogue or RS485

Aqueous Dryer

The Aqueous dryer is used for aqueous inks, organic solvents and latex. Results may vary.



Parameter	Aqueous Dryer
Lamp size	362/508 x 22/67 x 237 mm [14.2/20 x 0.9/2.6 x 9.3 in.]
Drying width	44 mm [1.7 in.]
Lamp weight	1.7 kg [3.7 lbs.]
Lamp power	Up to 3.1kW emitter
PSU input power	230VAC, 14A, 50/60 Hz*
PSU weight	2 kg [4.4 lbs.]
PSU size	128 x 250 x 60 mm [5 x 9.8 x 2.4 in.]
Mount height adjustment	60 mm [2.4 in.]
Mount flip-up angle	45° and 90°
Mounting holes	M8, 100 mm [3.9 in.] width

**functional at 208VAC with diminished performance*

OPTIONAL ACCESSORIES



Roll-to-Roll Rewinder

The Roll-to-roll Rewinder is a tabletop unit designed to support single pass inkjet technology.

Parameter	Roll-to-Roll Rewinder
Size	1092.2 x 457.2 x 508 mm [43 x 18 x 20 in.]
Weight	113.4 KG [250 lbs.]
Max substrate roll diameter	304.8 mm [12 in.]
Max substrate roll width	152.4 mm [6 in.]
Substrate roll core diameter	76.2 mm [3 in.]
Core locking	Manual
Speed	10.7 – 152.4 meters per minute [35 – 500 feet per minute]
Unit control	Manual through local HMI touch screen
Auto tension control	Yes
Tension control method	Pneumatic brake
Substrate break detection	Yes
End of substrate notification	Yes
E-stop	Yes
Encoder mounting bracket	Yes
Mounting plate	M8 x 1.25 thread, 25.4 x 25.4 mm square pattern
Substrate elevation	Even with top mounting plate
Input power	230 VAC, Single phase, 50/60 Hz



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