

# FlexVIA™-Plus Plasma System

## Features and Benefits

- Efficient design, economical gas consumption and small footprint contribute to low cost of ownership
- Easy loading and versatile horizontal racks allow for processing of various flexible PCB panel sizes
- Single stage plasma process and capacity for up to 30, 20" x 32" panels per cycle, enabling a rate of 140-200 units per hour (UPH)
- Patented, industry-proven plasma technologies provide superior surface activation, etch back, and desmear process uniformity
- Temperature controlled electrodes ensures consistent process repeatability



## Efficient and Cost Effective

Specifically designed for the processing of flexible PCB substrates, the FlexVIA™-Plus system from Nordson MARCH further extends the VIA™ series technology platform into the field of flexible material application.

The FlexVIA-Plus system delivers superior uniformity and efficiency for applications such as surface treatment, etch back, and desmear. Uniform plasma treatment of both sides of the flex material surface area is possible, enabling rates of 140-200 units per hour (UPH).

The FlexVIA-Plus system's advanced horizontal electrode design, with integrated rack, provides optimum material alignment for industry leading plasma treatment uniformity. The dual-rack chamber accommodates up to 30, 20"x 24" panels in a single cycle.

Fully self-contained, the FlexVIA-Plus system maximizes process capacity and minimizes usage of valuable production floor/area. It features a space-saving, compact chassis with two easy-access, front-loading doors.

## Easy to Use

The FlexVIA-Plus system makes it easy to load various sizes of flexible materials into the chamber via two, optimum height, front-loading doors. Convenient carts smoothly slide the racks in and out of the system. The loading racks include versatile slide out trays to accommodate many different flexible material sizes. The system is controlled by an intuitive touch screen GUI with a one-button start feature.

## Innovation and Applications

The FlexVIA-Plus system further builds on the success of the Nordson MARCH VIA series line of products (ProVIA™, MaxVIA™, and RollVIA™ plasma systems) which incorporate innovative application-specific technology with over 25 years of experience in plasma treatment for the PCB industry.



## Specifications: FlexVIA™-Plus Plasma System

<b>Enclosure Dimensions</b>	<b>W x D x H – Footprint</b>	1890W x 1585D x 2285H mm (74W x 62D x 90H in.)
	<b>Net Weight</b>	2070 kg (4564 lbs)
<b>Chamber</b>	<b>Number of Available Cells</b>	30
<b>Electrodes</b>	<b>Configuration</b>	Temperature Controlled Power-Power
	<b>Working Area</b>	508W x 830D mm; (20W x 32D in.)
<b>RF Power</b>	<b>Standard Wattage</b>	5 kW
	<b>Optional Wattage</b>	10 kW
	<b>Frequency</b>	40 kHz
<b>Gas Control</b>	<b>Available Flow Volumes</b>	500, 1000, 2000 or 5000 sccms
	<b>Maximum Number of MFCs</b>	5
<b>Control</b>	<b>Interface</b>	EPC with PC-Based Touch Screen Interface
<b>Vacuum Pump</b>	<b>Standard Purged Pump Package</b>	530 cfm
	<b>Cooling Water Flow</b>	9.5 slm
	<b>N2 Pump Purge Flow</b>	14 slm
<b>Facilities</b>	<b>Power Supply</b>	208 VAC, 50 A, 3-Phase + Ground; 50/60 Hz
	<b>Process Gas Fitting Size &amp; Type</b>	6.35 mm (0.25 in.) Swagelok
	<b>Process Gas Purity</b>	CF4 = 99.97%; O2 = 99.996%; N2 = 99.99%; Ar = 99.999%; H2 = 99.999%
	<b>Process Gas Pressure</b>	1.03 bar (15 psig) min. to 1.7 bar (25 psig) max., regulated
	<b>Purge Gas Fitting Size &amp; Type</b>	9.5 mm (0.375 in.) Swagelok Tube
	<b>Purge Gas Purity</b>	N2 = 99.99%
	<b>Purge Gas Pressure</b>	1.03 bar (15 psig) min. to 1.7 bar (25 psig) max., regulated
	<b>Pneumatic Valves Fitting Size &amp; Type</b>	9.5 mm (0.375 in.) Swagelok
	<b>Pneumatic Gas Purity</b>	CDA, Oil Free, Dewpoint ≤7°C (45°F), Particulate Size <5 µm
	<b>Pneumatic Gas Pressure</b>	6.2 bar (90 psig) min. to 6.9 bar (100 psig) max., regulated
<b>Compliance</b>	<b>USA</b>	EH&S/Ergonomics
	<b>International</b>	CE Marked
<b>Ancillary Equipment</b>	<b>Gas Generators</b>	Nitrogen, Hydrogen (requires Additional Non-Optional Hardware)
	<b>Facilities</b>	Chiller, Scrubber, Transformer

For more information, speak with your local representative or contact your regional office.

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