MaxVIA[™] Plasma System

Uniform PCB Treatment

Features and Benefits

- High throughput of HDI, flexible and rigid panels for maximum production flexibility
- Accommodates larger panel sizes within a small footprint to consume minimal floor space
- Faster units per hour (UPH) processing to meet today's demanding manufacturing schedules
- Low CF4 gas consumption for desmear applications contributes to the lowest cost of ownership in its class
- Patented system technologies produce superior process uniformity at high throughputs



Superior Plasma Uniformity for High Throughput PCB Treatment

Nordson MARCH's MaxVIA System is specifically configured to meet the demands of today's high throughput PCB manufacturing operations. Plasma treatment uniformity is a key operational feature in desmear and etchback applications for HDI, flexible and rigid circuit board manufacturing technologies. The MaxVIA system delivers!

The MaxVIA system platform is completely self-contained, requiring minimal floor space. The vacuum system, plasma chamber, control electronics, and 40 kHz power supply are housed in a single enclosure. Full front and rear access allows for convenient service to all interior components. The pump is positioned on rollers for easy removal. No side access is required allowing for even greater floor space savings.

Application Specific Technology

The MaxVIA system incorporates the best of Nordson MARCH's market leading technology combined with novel application specific technology development based on our greater than 25 years of experience. Through extensive research and development, the MaxVIA system presents unique vacuum and gas flow technology, new electrode designs, and superior temperature management. The careful balance of these critical design elements and process recipe parameters delivers a system that creates the most uniform PCB treatment for key applications like desmear and landing pad cleaning.

The MaxVIA system's superior performance capabilities are complemented by very attractive low-cost-of-ownership aspects. The system features a very compact and service-friendly design. The vertical loading concept and the use of easy loading carts minimizes any idle time which generates high levels of productivity. The fast vacuum pump down and greatly enhanced process cycle times further add to the throughput and productivity of the system.

Equipped with a touch-screen PC Operator Interface, the MaxVIA system provides a wide breadth of control capability and data collection. Unlimited recipes can be stored for easy switching of plasma processes from batch to batch. Password protection ensures that no unauthorized entries can be made.

Nordson

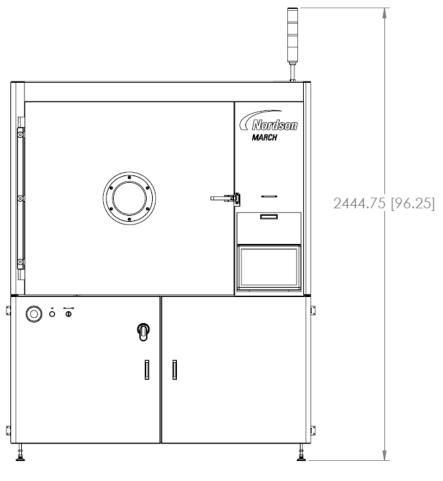
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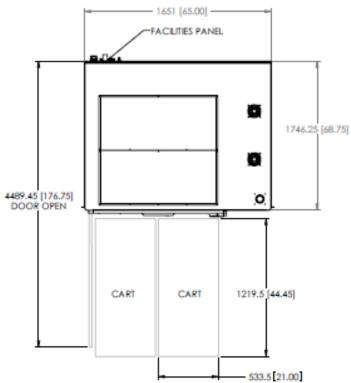
Specifications: MaxVIA Plasma System

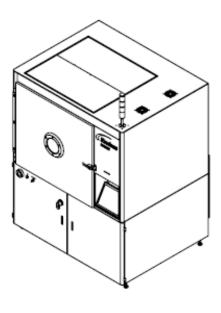
Enclosure	W x D x H – Footprint	1651W x 1746.25D x 2444.75H mm	
Dimensions	w x D x H = Pootplint	(65W x 68.75D x 96.25H in.)	
Dimensions	Net Weight	2230kg (4907lbs)	
	Effective Footprint – Clearances	1651W x 4489.45D mm with Door Open	
	Enective I ootpilit Greatanees	(65W x 176.75D in.)	
Chamber	Dimensions	1003.3W x 1270D x 914.4H mm	
Ghamber	2	(39.5W x 50D x 36H in.)	
	Number of Available Cells	13	
Electrodes	Powered Electrode Dimensions -	1117.6D x 609.6H mm; (44D x 24H in.)	
	Working Area		
	Temperature Controlled Electrode	Standard	
RF Power	Standard Wattage	10 kW	
	Frequency	40 kHz	
Gas Control	Standard Sizes, Others Available on	Standard – 5slm, 2slm, 0.5slm	
	Request	Option – 2slm, 2slm	
	Maximum Number of MFCs	5	
Control	Interface	PLC with PC-Based Touch Screen Interface	
System			
Vacuum	Standard Dry Pump	63 cfm	
Pump	Water Flow	5 slm	
	N2 Flow	17 slm	
	Standard Booster Pump	1300 cfm	
Facilities	Power Supply	208 VAC, 50 A, 3 Phase + Ground; 50/60 Hz	
	Process Gas Fitting Size & Type	6.35mm (1/4 in.) Swagelok	
	Process Gas Purity	CF4 = 99.97%; O2 = 99.996%; N2 = 99.99%;	
		Ar = 99.999%; H2 = 99.999%	
	Process Gas Pressure	15-20 psig	
	Purge Gas Fitting Size & Type	6.35mm (1/4 in.) Swagelok	
	Purge Gas Purity	N2 = 99.99%	
	Purge Gas Pressure	15-20 psig	
	Pneumatic Valves Fitting Size &	6.35mm (1/4 in.) Swagelok	
	Type	Class and Des (CDA)	
	Pneumatic Gas Purity	Clean and Dry (CDA)	
	Pneumatic Gas Pressure	80-100 psig	
Camanlianas	Exhaust CF Marked	NW 40 @ Utility Panel	
Compliance	CE Marked	Yes 20 100 min 5 2 mfm CDA (25 mm (1 /4 in) 5 min 5	
Ancillary	Nitrogen Generator (option)	80-100 psig 5.3 scfm CDA 6.35mm (1/4 in.) fitting	
Equipment	Chiller (option)	70,000 BTU, 208 VAC, 3 Phase 35-50 Amp, 50/60 Hz	
01:	Scrubber (option)	120 VAC, 38.1mm (1.5 in.) hose input, 50.8mm (2 in.) output	
Shipping	Crate Dimensions	Machine = 2082.8 x 1981.2 x 2336.8mm (82 x 78 x 92 in.)	
		Pump = 1244.6 x 1244.6 x 1371.6mm (49 x 49 x 54 in.) Carts/Racks = 1422.4 x 1295.4 x 2082.8mm (56 x 51 x 82 in.)	
	Gross Weight	3148kg (6925.7lbs)	
	Number of Packages	3	
	Packing Conforms to ISPM 15	Yes	
	1 acking Comornis to 131 W 13	100	



Nordson MARCH MaxVIA Plasma System Footprint Drawings









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MaxVIA Panel Size and Throughput Chart

Panel Size (mm)	Panel Size (inches)	# Units per Cycle	Units Per Hour (UPH)
500 x 350	19.69 x 13.78	39	138
533 x 609	21 x 24	26	92
510 x 535	20 x 21	26	92
305 x 455	12 x 18	39	138
455 x 610	18 x 24	26	92



Nordson MARCH MaxVIA Plasma System with optional cart/rack

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

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