

MaxVIA-Plus™ Plasma System

Features and Benefits

- High throughput of HDI, flexible and rigid panels for maximum production flexibility
- Accommodates multiple panel sizes within a small footprint to consume minimal floor space
- Fast 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 throughput

Superior Plasma Uniformity for High Throughput PCB Treatment

Built upon Nordson MARCH's VIA™ technology platform, the MaxVIA-Plus™ System increases process capacity, while minimizing consumption of valuable production floor space. Similarly, the system provides uniform plasma to meet the rigorous requirements of the PCB manufacturing environment.

Plasma treatment uniformity is a key operational feature in desmear and etch back applications for HDI, flexible and rigid circuit board fabrication technologies. The MaxVIA-Plus utilizes a unique power-power electrode configuration that generates a balance, allowing both sides of the substrate to receive the same plasma treatment.

Application Specific Technology

The MaxVIA-Plus 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-Plus 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-Plus 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-Plus 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.



Specifications: MaxVIA-Plus™ Plasma System

Enclosure Dimensions	W x D x H – Footprint	1746.25 W x 1651D x 2444.75H mm (68.75W x 65D x 96.25H in.)
	Net Weight	2330kg (5126lbs)
Chamber	Number of Available Cells	15
Electrodes	Powered Electrode Dimensions	1117.6D x 609.6H mm; (44D x 24H in.)
	Temperature Controlled Electrode	Standard
RF Power	Standard Wattage	10 kW
	Frequency	40 kHz
Gas Control	Standard Sizes, Others Available on Request	Standard – 5slm, 2slm, 0.5slm Option – 2slm, 2slm
	Maximum Number of MFCs	5
Control System	Interface	PLC with PC Based Touch Screen
Vacuum Pump	Standard Dry Pump	63 cfm
	Cooling Water Flow	5 slm
	N2 Pump Purge Flow	17 slm
	Standard Booster Pump	1300 cfm
Facilities	Power Supply	208VAC, 50 A, 3 Phase + Ground; 50/60Hz
	Process Gas Fitting Size & Type	6.35mm (.25 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 & Type	6.35mm (1/4 in.) Swagelok
	Pneumatic Gas Purity	Clean and Dry (CDA)
	Pneumatic Gas Pressure	80-100 psig
Exhaust	NW 40 @ Utility Panel	
Compliance	CE Marked	Yes
Ancillary Equipment	Nitrogen Generator (option)	80-100 psig 5.3 scfm CDA 6.35mm (1/4 in.) fitting
	Chiller (option)	70,000 BTU, 208 VAC, 3 Phase 35-50 Amp, 50/60 Hz
	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	3208kg (7057.6lbs)
	Number of Packages	3
	Packing Conforms to ISPM 15	Yes

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