

AP-1500

Plasma Treatment System

Features and Benefits

- **Simple system operation and data logging**
- **Proven for fast effective plasma cleaning and surface preparation**
- **Patented designs maximize treatment performance and throughput**
- **Easy loading and unloading of the chamber**
- **Compact system enclosure minimizes footprint**
- **Low operational costs and cost of ownership**

Effective plasma treatment with an extra large chamber for batch processing

The Nordson MARCH AP-1500 Plasma System is designed to provide best-in class plasma treatment with its large chamber for batch-type plasma processing. Daily operating expenses, such as process gases and power consumption, are minimized through unique design concepts.

The AP-1500 is a cost- and space-efficient plasma system for treating all types of parts and components. It is completely self-contained, and requires minimal floor space. The pump, chamber, control electronics, and 40 KHz RF generator are all contained within its enclosure. Front and rear maintenance doors allow for convenient access to all interior components, and the pump is positioned on rollers for easy removal.

Plasma cleaning and surface preparation

The AP-1500 Plasma System is designed to deliver superior performance for plasma cleaning and



surface preparation applications. The horizontal electrodes (shelves) allow for large batch loads.

The AP-1500 Plasma System is designed to maximize plasma efficiency through the use of advanced power matching and control system algorithms. The intuitive touch screen control panel monitors and controls the plasma process in real-time. The control system can be password-protected at multiple levels to prevent unauthorized recipe modification. This ensures consistent performance of the system from the first batch to the last.

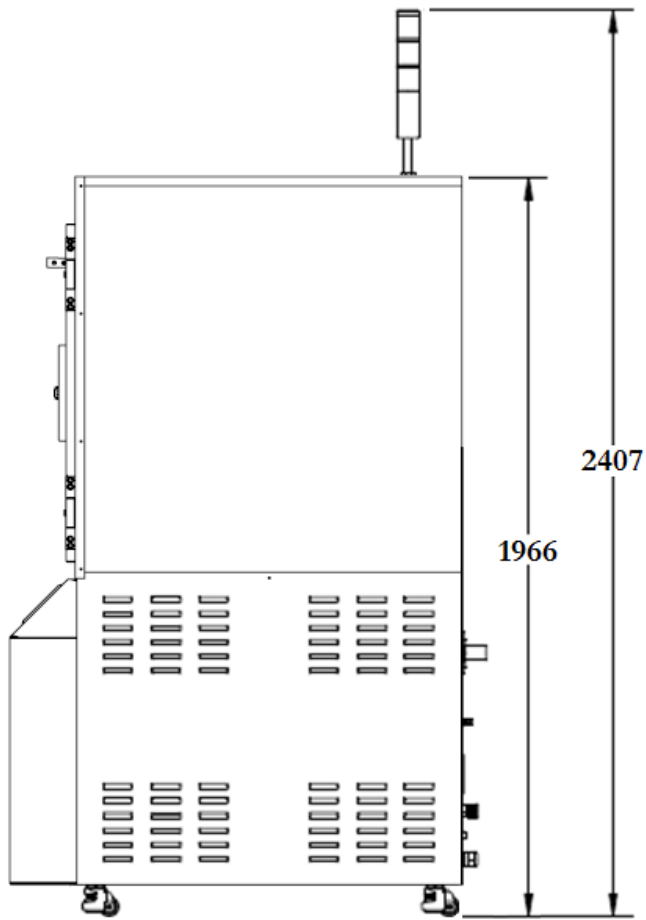
The AP-1500 Plasma System also offers slide-out horizontal shelves for ease of loading and unloading. Its compact and service-friendly design features a small footprint, and is designed for maintenance access from only the front and rear of the system. Therefore, multiple systems can be placed side-by-side to maximize floor space utilization.


MARCH

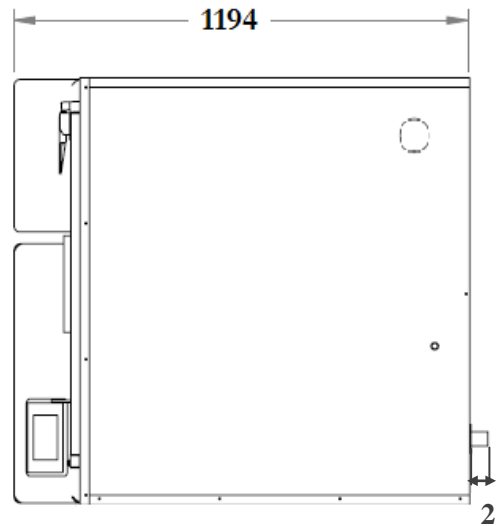
Specifications: AP-1500 Plasma System

Enclosure Dimensions	W x D x H – Footprint	1118W x 1196D x 1966H mm (2407 with light tower) (44W x 47D x 77H in.)
	Net Weight	921kg (2030lbs)
	Effective Footprint – Clearances	Right, Left - 153mm (6 in.), Front – 680mm (26.8 in.) Back - 483mm (19 in.) min.
Chamber	Dimensions	762W x 762D x 762H mm (30W x 30D x 30H in.)
	Volume	442 liters (27,000 in ³)
	Variable Electrode Configurations	Direct and Downstream
	Number of Shelf Positions	14
	Shelf Pitch	50.8mm (2 in.)
Electrodes	Powered Electrode Dimensions - Working Area	643W x 641D mm (25.3W x 25.2D in.)
	Ground (Perf.) Electrode Dimensions – Working Area	698W x 641D mm (27.5W x 25.2D in.)
	Floating Shelf Dimensions – Working Area	643W x 641D mm (25.3W x 25.2D in.)
RF Power	Standard Wattage	2000W
	Frequency	40 KHz
Gas Control	Maximum Number of MFCs	4
Remote Interface	Software Controls	PlasmaLINK, ProcessLINK
Vacuum Pump	Standard Vacuum Pump	65CFM (50/60 Hz) Dry Pump
Facilities	Power Supply	220V, 25A, 50/60Hz, 3Ø, 8AWG, 4-Wire 380V, 25A, 50/60Hz, 3Ø, 8AWG, 5-Wire
	Process Gas Fitting Size & Type	.25-in. OD Swagelok Tube
	Purity	Industrial grade or better
	Pressure & Flow	Regulated from .69bar (10PSI) min. to 1bar (15PSI) max.
	Purge Gas Fitting Size & Type	.25-in. OD Swagelok Tube
	Purity	Industrial grade Nitrogen or CDA
	Pressure & Flow	Regulated from 2bar (30PSI) min. to 5.5bar (80PSI) max.
	Pneumatic Valves Fitting Size & Type	.25-in. OD Swagelok Tube
	Purity	CDA, Oil Free, Dewpoint ≤ 7°C (45°F), Particulate Size < 5 micron
	Pressure & Flow	Regulated from 3.4bar (50PSI) min. to 5.5bar (80PSI) max.
	Exhaust	38mm (1.5 in.) OD Pipe Flange
	Compliance	SEMI
International		CE marked
Ancillary Equipment	Gas Generators	Nitrogen, Hydrogen
	Facilities Modules	Oil Filtration, Chiller, Scrubber
Shipping	Crate Dimensions	1520W x 1490L x 1850H mm (60W x 59L x 73H in.)
	Gross Weight	1175kg (2590 lb)

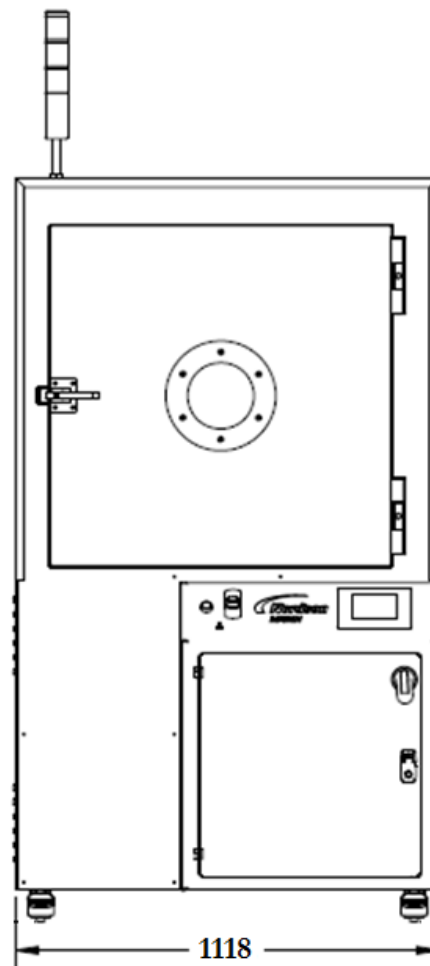
Dimensions: AP-1500 Plasma System



Side View of AP-1500 Plasma System



Top View of AP-1500 Plasma System



Front View of AP-1500 Plasma System

Intuitive Software and Graphical Interface

March's proprietary software and intuitive graphical interface allow easy touch-screen programming. With the option of PlasmaLINK, it is possible to remotely communicate with the system for real-time data collection and control.



Chamber View of AP-1500 Plasma System

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

nordsonmarch.com

North America

Headquarters
Concord, CA, USA
+1.925.827.1240
info@nordsonmarch.com

China

Shanghai
+8621.3866.9166

Europe & Africa

Maastricht, Netherlands
+31.65.155.4996

S.E. Asia

Singapore
+65.6796.9500

Korea

Seoul
+82.31.736.8321

India

Chennai
+91.44.43539024

Nordson MARCH

+1.800.326.1151 Phone

info@nordsonmarch.com Email

2470-A Bates Avenue

Concord, CA, 94520-1122 U.S.A.

www.nordsonmarch.com

Reformatted Rev. A (2013 – 06)


Nordson
MARCH