

# FlexTRAK® Plasma System

## Features and Benefits

- Ultimate application flexibility for direct, downstream and ion-free (patented) plasma, which allows treatment without exposure to ion and UV
- Easily integrates with a variety of process equipment, including wire bond, die attach, dispense, mold, and marking
- Slim structure that requires minimal floor space, all service components are easily accessible from the front
- Compact, three-axis symmetrical chamber and proprietary process control for unmatched process uniformity
- Industry leading throughput capacity with short cycle times

## Superior Plasma Process Quality and Automation in One System

The Nordson MARCH FlexTRAK® platform provides unparalleled treatment uniformity and process consistency. A three-axis symmetrical chamber ensures all positions of the product are treated uniformly, while tight controls over all process parameters ensure repeatable results from product to product.

## High-Throughput Processing Capability

The FlexTRAK platform is a highly configurable, high-throughput plasma system. Its universal architecture accommodates a multitude of material handling configurations to support a wide assortment of variable-size form factors. Its small chamber volume and proprietary process control enable unmatched short cycle times, while its slim structure minimizes floor space requirements.



The FlexTRAK platform handles a wide variety of product form factors, including boats, carriers, Jedec/Auer® boats, strips, laminates, and wafers. Depending on throughput and product form requirements, the system can be configured for magazine-to-magazine processing of single and multiple strips or lead frames, wafer processing, and standalone for island-based production environments.

## SMART Tune™ Management System

The FlexTRAK platform's SMART Tune management system provides closed-loop plasma control that optimizes the RF system and minimizes tuning time. The system automatically recycles to a plasma-ready state, compensating for changes in vacuum pressure, temperature and varied lot sizes. Maximum power to the chamber is achieved in seconds with a proprietary algorithm that constantly measures forward and reflective power inside the chamber.

## Specifications: FlexTRAK® Plasma System

Enclosure Dimensions	W x D x H – Footprint	382W x 1210D x 1595H mm (2037H mm with light tower) 15W x 47.6D x 62.8H in. (80.2H in. with light tower)
	Net Weight	275 kg (605 lbs)
	Equipment Clearance	Right, Left – 153 mm (6 in), Front, Back – 914 mm (36 in)
Chamber	Maximum Volume	5.5 liters (338 in <sup>3</sup> )
Electrodes	Variable Electrode Configurations	Power-Ground, Ground-Power; Power-Power
	Working Area	305W x 305D mm (12W x 12D in.)
RF Power	Standard Wattage	600 W
	Frequency	13.56 MHz
Gas Control	Available Flow Volumes	10, 25, 50, 100, 250 or 500 sccm
	Maximum Number of MFCs	4
Control & Interface	Software Control	EPC with PC-Based Touch Screen Interface
	Remote Interface	SMEMA, SECS/GEM
Vacuum Pump	Standard Dry Pump	16 cfm
	Optional Wet Pump	19.5 cfm
	Optional Purged Dry Pump	16 cfm
	N <sub>2</sub> Purged Pump Flow	2 slm
Facilities	Power Supply	220 VAC, 15A, 50/60 Hz, 1-Phase, 12 AWG, 3-Wire
	Process Gas Fitting Size & Type	6.35 mm (0.25 in.) OD Swagelok Tube
	Process Gas Purity	Lab or Electronic Grade
	Process Gas Pressure	0.69 bar (10 psig) min. to 1.03 bar (15 psig) max., regulated
	Purge Gas Fitting Size & Type	6.35 mm (0.25 in.) OD Swagelok Tube
	Purge Gas Purity	Lab or Electronic Grade N <sub>2</sub> /CDA
	Purge Gas Pressure	2 bar (30 psig) min. to 6.9 bar (100 psig) max., regulated
	Pneumatic Valves Fitting Size & Type	6.35 mm (0.25 in.) OD Swagelok Tube
	Pneumatic Gas Purity	CDA, Oil Free, Dewpoint ≤7°C (45°F), Particulate Size <5 µm
	Pneumatic Gas Pressure	3.45 bar (50 psig) min. to 6.89 bar (100 psig) max., regulated
Compliance	Exhaust	25.4 mm (1 in.) OD Pipe Flange
	SEMI	S2/S8 (EH&S/Ergonomics)
Ancillary Equipment	International	CE Marked
	Gas Generators	Nitrogen, Hydrogen (Requires Additional Non-Optional Hardware)
	Facilities	Chiller, Scrubber

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

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