

# FlexTRAK™

Plasma Treatment System

## Features and Benefits

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

## Superior Plasma Process Quality and Automation in One System

The Nordson MARCH FlexTRAK series of gas plasma equipment 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.

The FlexTRAK 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.



## High-Throughput Processing Capability

The FlexTRAK system 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, reel-to-reel, wafer processing, and standalone for island-based production environments.

## SMART Tune™ Management System

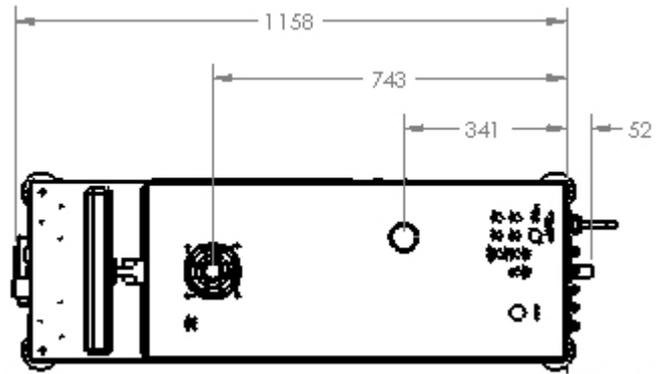
The FlexTRAK's SMART Tune management system provides closed-loop plasma control that optimizes the RF system and minimizes tuning time. The system automatically recycles to a plasma-ready state, compensating for changes in vacuum pressure, temperature and varied lot sizes. Maximum power to the chamber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

  
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## Specifications: FlexTRAK Plasma System

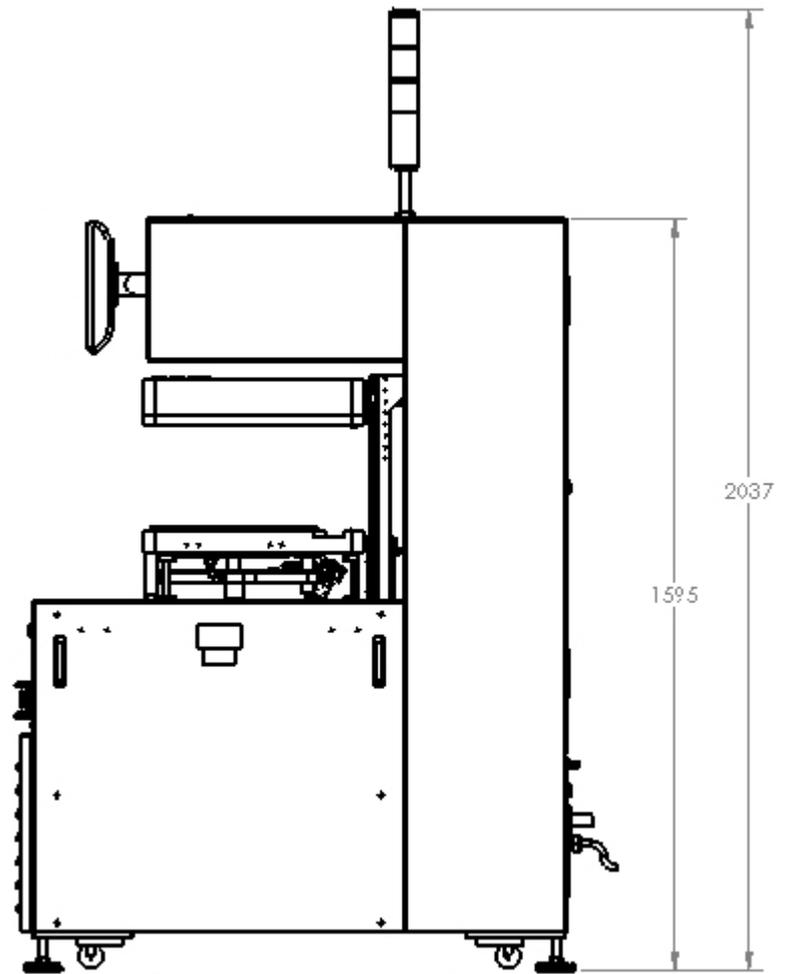
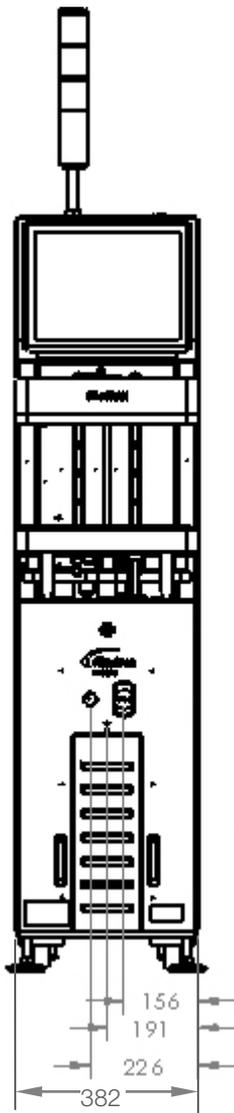
<b>Enclosure Dimensions</b>	<b>W x D x H – Footprint</b>	382 W x 1210 D x 1595 H; 2037H mm with Light Tower (15 W x 45.6 D x 62.8 H; 80.2 H in. with Light Tower)
	<b>Net Weight</b>	275 kg (606 lbs)
	<b>Effective Footprint – Clearances</b>	Right, Left – 153 mm (6 in.), Front, Back – 914 mm (36 in.)
<b>Chamber</b>	<b>Dimensions</b>	330 W x 330 D x 50 H mm (13 W x 13 D x 2 H in.)
	<b>Volume</b>	5.5 liters (338 in <sup>3</sup> )
<b>Electrodes</b>	<b>Powered Electrode Dimensions - Working Area</b>	305 W x 305 D (mm); 12 W x 12 D (in.)
<b>RF Power</b>	<b>Standard Wattage</b>	600 W
	<b>Frequency</b>	13.56 MHz
<b>Gas Control</b>	<b>Maximum Number of MFCs</b>	4
<b>Control System</b>	<b>Control System</b>	PLC Control with PC Based Touch Screen Interface
<b>Remote Interface</b>	<b>Remote Interface</b>	SMEMA; SECS/GEM; Remote HMI
<b>Vacuum Pump</b>	<b>Dry Vacuum Pump</b>	16 CFM, Variable Frequency Drive
<b>Facilities</b>	<b>Power Supply</b>	220 VAC, 20 A, 50/60Hz, Single Phase, 12 AWG, 3-Wire
	<b>Process Gas Fitting Size &amp; Type</b>	.25-in. OD Swagelok Compression
	<b>Process Gas Purity</b>	Industrial grade or better
	<b>Process Gas Pressure</b>	Regulated from .69 bar (10 psig) min. to 1.4 bar (20 psig) max.
	<b>Purge Gas Fitting Size &amp; Type</b>	.25-in. OD Swagelok Compression
	<b>Purge Gas Purity</b>	Industrial grade Nitrogen or CDA
	<b>Purge Gas Pressure</b>	Regulated from 5.5 bar (80 psig) min. to 6.9 bar (100 psig) max.
	<b>Pneumatic Valves Fitting Size &amp; Type</b>	.25-in. OD Swagelok Compression
	<b>Pneumatic Gas Purity</b>	CDA, Oil Free, Dewpoint <=7°C /45°F, Particulate Size <5 micron
	<b>Pneumatic Gas Pressure</b>	Regulated from 5.5 bar (80 psig) min. to 6.9 bar (100 psig) max.
	<b>Exhaust</b>	25.4 mm (1 in.) OD Pipe Flange
<b>Compliance</b>	<b>Compliance</b>	CE Marked, SEMI S2/S8 (EH&S/Ergonomics)
<b>Ancillary Equipment</b>	<b>Ancillary Equipment</b>	Nitrogen generator, Hydrogen generator (requires additional non-optional hardware), Chiller, Scrubber

# FlexTRAK Plasma System Footprint Diagrams



Top view of FlexTRAK Plasma System

Front view of FlexTRAK Plasma System



Side view of FlexTRAK Plasma System



FlexTRAK Plasma System with front access panel open

## Intuitive Software and Graphical Interface

March's proprietary software and intuitive graphical interface allow easy touch-screen programming. An unlimited number of alphanumeric recipes can be saved and instantly accessed. The FlexTRAK platform is Ethernet, Internet- and LAN-ready. Real-time process representation allows statistical data gathering.

**For more information,  
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*FlexTRAK Reformatted Rev. A (2013 –  
06)*

The logo features the word "Nordson" in a bold, blue, sans-serif font with a blue swoosh above it. Below "Nordson" is the word "MARCH" in a smaller, blue, sans-serif font.