

# FlexTRAK™ CDS Plasma System

## Features and Benefits

- High volume, small footprint and low cost of ownership
- Production-ready strip handling system
- Highly uniform plasma treatment with fast throughput rates
- Service components accessible via front pull-out shelves
- Easy to use touch screen graphical user interface (GUI)



## Superior Plasma Processing, Small Footprint, High Capacity

Built upon Nordson MARCH's patented plasma technology, the FlexTRAK™ CDS platform is just one of many plasma systems incorporated with a high capacity chamber, which provides high uniformity and process repeatability. It ensures all areas of the substrate are treated uniformly.

Similar to its smaller brethren, the FlexTRAK-CDS platform is designed for high throughput processing of lead frame strips, laminated substrates, and other strip-type electronic components, up to 10 strips per plasma cycle.

The system accommodates a wide range of strip sizes, yielding unmatched production flexibility. Its small chamber volume and proprietary process control system provide short cycle times, with high machine autonomy.

## Applications

Plasma for pre-die attach, pre-wire bond, pre-mold encapsulation and pre-underfill such as:

### Contamination Removal & Surface Cleaning

- Fluorine & other halogens
- Metals & metal oxides
- Organic compounds

### Etching and Surface Roughening

- Improve die adhesion & wire bonding
- Improve mold adhesion & reduce delamination

### Surface Activation

- Improve die adhesive flow, eliminate voids and enhance adhesion
- Improve mold material flow, eliminate voids and reduce wire sweep
- Improve underfill flow, eliminate voids, enhance adhesion, and increase wicking speed

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## Specifications: FlexTRAK™ CDS Plasma System

<b>Enclosure Dimensions</b>	<b>W x D x H – Footprint</b>	1190W x 1320D x 1640H; 2114H mm with Light Tower (47W x 52D x 65H; 83H in. with Light Tower)
	<b>Net Weight</b>	550 kg (1213 lbs)
	<b>Equipment Clearances</b>	Right, Left, Back – 254 mm (10 in.), Front – 940 mm (37 in.)
<b>Chamber</b>	<b>Maximum Volume</b>	9.6 liters (585 in <sup>3</sup> )
<b>Electrodes</b>	<b>Variable Electrode Configurations</b>	Power-Ground, Ground-Power, Power-Power
	<b>Working Area</b>	305W x 550D mm (12W x 21D in.)
<b>RF Power</b>	<b>Standard Wattage</b>	600 W
	<b>Optional Wattage</b>	1000 W
	<b>Frequency</b>	13.56 MHz
<b>Gas Control</b>	<b>Available Flow Volumes</b>	10, 25, 50, 100, 250 or 500 sccm
	<b>Maximum Number of MFCs</b>	4
<b>Control &amp; Interface</b>	<b>Software Control</b>	EPC with PC-Based Touch Screen Interface
	<b>Remote Interface</b>	SMEMA, SECS/GEM
<b>Vacuum Pump</b>	<b>Standard Dry Pump</b>	16 cfm
	<b>Optional Wet Pump</b>	19.5 cfm
	<b>Optional Purged Dry Pump</b>	16 cfm
	<b>N2 Purged Pump Flow</b>	2 slm
<b>Facilities</b>	<b>Power Supply</b>	220 VAC, 15A, 50/60 Hz, 1-Phase, 12 AWG, 3-Wire
	<b>Process Gas Fitting Size &amp; Type</b>	6.35 mm (0.25 in.) OD Swagelok Tube
	<b>Process Gas Purity</b>	Lab or Electronic Grade
	<b>Process Gas Pressure</b>	0.69 bar (10 psig) min. to 1.03 bar (15 psig) max., regulated
	<b>Purge Gas Fitting Size &amp; Type</b>	6.35 mm (0.25 in.) OD Swagelok Tube
	<b>Purge Gas Purity</b>	Lab or Electronic Grade N2/CDA
	<b>Purge Gas Pressure</b>	2 bar (30 psig) min. to 6.9 bar (100 psig) max., regulated
	<b>Pneumatic Valves Fitting Size &amp; Type</b>	6.35 mm (0.25 in.) OD Swagelok Tube
	<b>Pneumatic Gas Purity</b>	CDA, Oil Free, Dewpoint ≤7°C (45°F), Particulate Size <5 µm
	<b>Pneumatic Gas Pressure</b>	3.45 bar (50 psig) min. to 6.89 bar (100 psig) max., regulated
<b>Compliance</b>	<b>SEMI</b>	S2/S8 (EH&S/Ergonomics)
	<b>International</b>	CE Marked
<b>Ancillary Equipment</b>	<b>Gas Generators</b>	Nitrogen, Hydrogen (Requires Additional Non-Optional Hardware)
	<b>Facilities</b>	Chiller, Scrubber

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

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