

FlexTRAK™-CD Plasma System

Compact Design Strip Processing

Features and Benefits

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



Superior Plasma Processing, Small Footprint, High-Throughput

The FlexTRAK-CD plasma system is designed for high throughput processing of lead frame strips, laminated substrates, and other strip-type electronic components, up to 5 strips per plasma cycle.

The patented plasma chamber design provides high uniformity and process repeatability. It ensures all areas of the substrate are treated uniformly, while tight control over process parameters provides highly repeatable results.

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



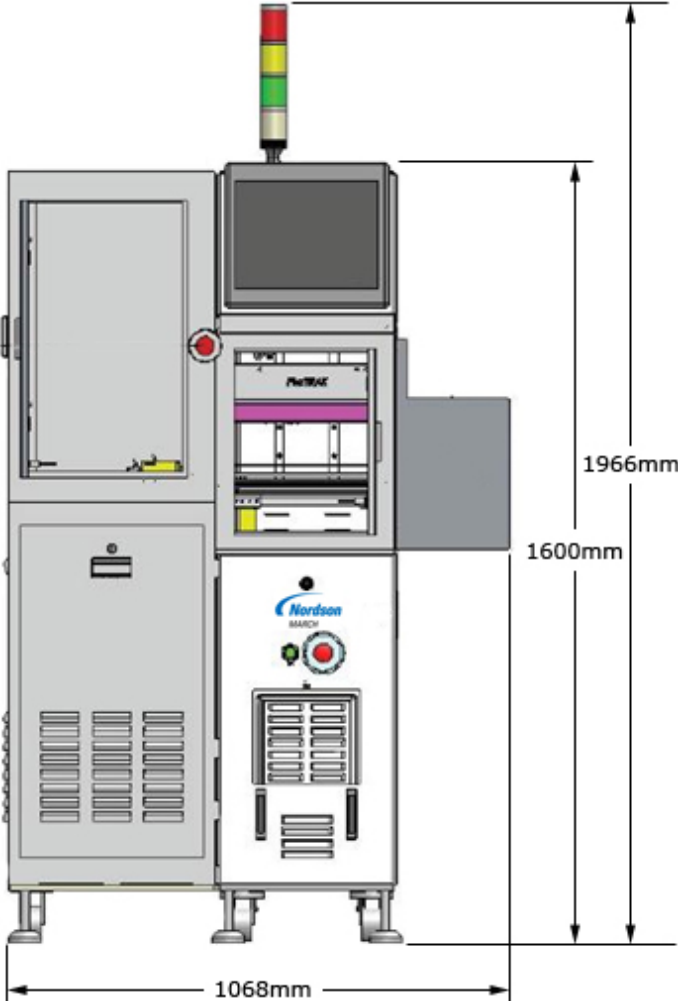
Specifications: FlexTRAK™-CD

Enclosure Dimensions	W x D x H – Footprint	1068 W x 1166 D x 1600 H; 1966 H mm with Light Tower (42 W x 46 D x 63 H; 77 H in. with Light Tower)
	Net Weight	430 kg (948 lbs)
	Effective Footprint – Clearances	Right, Left, Back – 254 mm (10 in.), Front – 940 mm (37 in.)
Electrodes	Configurable	Powered, Ground or Floating
RF Power	Standard Wattage	600 W
	Frequency	13.56 MHz
Gas Control	Maximum Number of MFCs	4
Control & Interface	Software Control	PLC Control with PC-Based Touch Screen Interface
	Remote Interface	SMEMA, SECS/GEM
Vacuum Pump	Configurable	Internal or External Dry Pump External Wet Pump
Facilities	Power Supply	220VAC, 20 A, 50/60Hz, Single Phase, 12 AWG, 3-Wire
	Process Gas Fitting Size & Type	.25-in. OD Swagelok Tube
	Process Gas Purity	Industrial grade or better
	Process Gas Pressure	Regulated from .69 bar (10 psig) min. to 1 bar (15 psig) max.
	Purge Gas Fitting Size & Type	.25-in. OD Swagelok Tube
	Purge Gas Purity	Industrial grade Nitrogen or CDA
	Purge Gas Pressure	Regulated from 2 bar (30 psig) min. to 5.5 bar (80 psig) max.
	Pneumatic Valves Fitting Size & Type	.25-in. OD Swagelok Tube
	Pneumatic Gas Purity	CDA, Oil Free, Dewpoint <=7°C /45°F, Particulate Size <5 micron
	Pneumatic Gas Pressure	Regulated from 3.4 bar (50 psig) min. to 5.5 bar (80 psig) max.
	Exhaust	25.4mm (1 in.) OD Pipe Flange
	Compliance	SEMI
International		CE Marked
Ancillary Equipment	Gas Generators	Nitrogen, Hydrogen(Requires Additional Non-Optional Hardware)
	Facilities	Chiller, Scrubber
Shipping	Crate Dimensions	1550W x 1372L x 1804H mm (61W x 54L x 71H in.)
	Gross Weight	590kg (1301lbs)

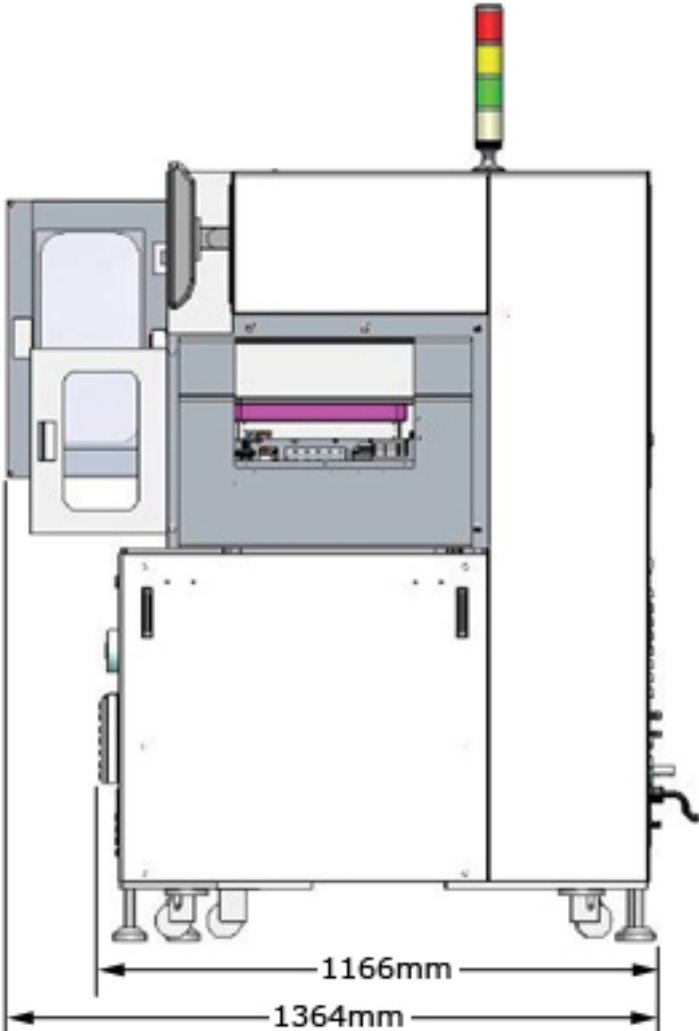
Strip Width Size (mm)	Number of Strips	Units per Hour (UPH)*
25.0 to 54.4	5	576
54.5 to 69.8	4	461
69.9 to 95.5	3	346
95.6 to 146.9	2	230
147.0 to 305.0	1	115
* Machine capable rates; for other strip width sizes, contact Nordson MARCH		

Dimensions: FlexTRAK™-CD Plasma System

Front view of FlexTRAK-CD



Side view of FlexTRAK-CD w/doors open



Compact Design and High Throughput

The FlexTRAK™-CD plasma system's integrated strip handling system delivers rapid and reliable material transfer for a wide range of strip sizes. Processing can be done from most types of magazines and carriers. The patented chamber design and control system enable short plasma cycle times with very low overhead, ensuring that throughput is maximized and cost of ownership is minimized.



**For more information,
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