

FlexTRAK™ Plasma Treatment System

March
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Technology Enhancing the Quality of Life

The FlexTRAK™ is the latest addition to March's TRAK series of highly configurable, high throughput radio-frequency vacuum gas plasma systems. Its universal architecture makes it an ideal plasma processing solution for lean medical manufacturing environments. Whether the manufacturing environment requires high-speed automation, standalone or cleanroom processing, the FlexTRAK modifies surfaces through direct, downstream or ion-free plasma.

Gas plasma treatment provides a fast and efficient method for cleaning, surface modification and coating. It delivers better performance, higher quality and reliability through improved bonding, increased lubricity, wettability, hydrophilicity, hydrophobicity and biocompatibility

SUPERIOR PLASMA PROCESS QUALITY AND AUTOMATION IN ONE SYSTEM

FEATURES and BENEFITS

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.

INTUITIVE SOFTWARE AND GRAPHICAL INTERFACE allows easy touch-screen programming and safe operation hierarchical interfacing. 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.

THREE-AXIS SYMMETRICAL CHAMBER provides fast processing and unparalleled treatment uniformity and process consistency.

PROCESS CONTROLS monitor all critical process parameters and collect and record lot process data to ensure repeatable results.

EASILY INTEGRATES with a variety of process equipment including various, bond, dispense, mold and marking equipment.



UNIQUE, SLIM STRUCTURE requires minimal floor space, and all service components are easily accessible from the front.

APPLICATION EXAMPLES

- Non-compatible Material Bonding
- Stent Cleaning and Bonding
- Catheter Bonding
- Hydrophilic Treatment for Dispensing
- Tack Reduction of Silicone Rubber Molded Parts
- Contact Lens Surface Functionalization
- Sensor Cleaning, Wetting and Functionalization
- PCB Bond Pad Cleaning
- Fixture and Component Cleaning

Packaging - Processing
Bid on Equipment
1-847-683-7720
www.bid-on-equipment.com

System Specifications	
Enclosure	Powder-coated aluminum Completely houses the process chamber, electronics, pump and generator
Integrated Handling System	Operation Modes: In-line automatic, manual and pass-through Contact us to discuss your material handling and form-factor material requirements.
Chamber	Material: Nickel-plated aluminum with aluminum fixturing Part Envelope: 305 x 305 x 50 mm (12.0 x 12.0 x 2.0 in.) Controlled Vacuum Exhaust Flexible Inlet Gas Flow Geometries
RF Power	600 W, solid state 13.56 MHz
Gas Control	Two (2) Mass flow controllers: 100 SCCM, 250 SCCM (other sizes available upon request) Hydrogen-ready
User Interface	Touch-screen PC with intuitive graphical user interface Unlimited alphanumeric recipe storage
Pump System	16 CFM Dry Pump Variable Frequency Drive for process consistency
System Controls	Automatic Impedance Matching Network Temperature-Compensated Baratron Remote EMO/On Remote Process By-Pass Capability
Facility Requirements	Footprint (with light tower): 382 x 1170 x 1700 mm (15.0 x 46.0 x 67.0 in.) Power: Single-phase 220VAC \pm 10%, 20A, 50/60 Hz Process Gases: 6 mm (1/4 in.) compression fitting, 0.7-1.4 bar (10-20 PSI) CDA: 6 mm (1/4 in.) compression fitting, 5.5-6.9 bar (80-100 PSI) N ₂ : 6 mm (1/4 in.) compression fitting, 0.7-3.5 bar (10-50 PSI)
Compliance	Complete machine enclosure Light tower CE-certified SMEMA 1.2 compatible Equipment Performance Data



Our Applications and Customer Service departments bring to you more than 20 years of experience in RF plasma technology.

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March Plasma Systems reserves the right to make design changes to products and components to improve their function. These changes may occur between printings.

Leading Plasma Innovations

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