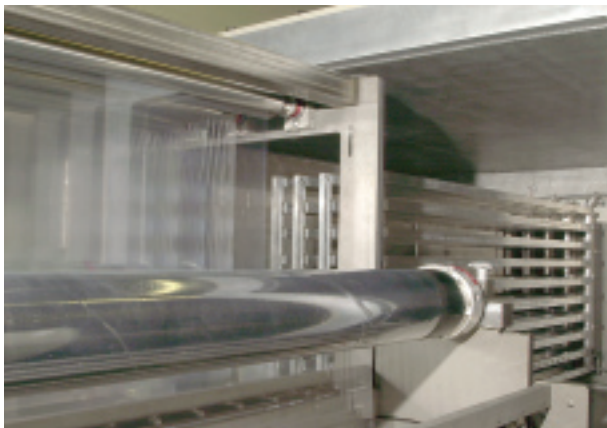


R-Series Plasma Cleaning Systems

March
A NORDSON COMPANY

Roll-to-Roll Plasma Processing

The R-Series plasma system from March provides roll-to-roll processing of thick and thin film, fabrics and other web material. Plasma treats filter materials to increase wettability and decrease flow resistance. It also activates surfaces for extruded tubing and provides metal cleaning for wire/thin metal substrate roll applications.



The plasma vacuum chamber and components are sized to meet customer roll diameter/length and production requirements. The system is designed for easy threading of new rolls with minimal operator interface. March's proprietary P2CIM software controls and monitors critical process parameters (i.e., pressure, gas flow, power and temperature) and displays roller speed, tension, end-of-roll, and broken web signals.



For roll materials, plasma treatment promotes surface modification for:

- Increased wettability
- Improved permeability
- Increased lubricity
- Improved adhesion
- Materials etching

Gas plasma offers an environmentally safe process with uniform, repeatable results within a roll, and from roll to roll. The R-Series systems are specifically designed for long-term, low cost of ownership performance.



Features and Benefits:

- Variable roll speed for modifying dwell time based on material requirements
- Optional automatic tension control for processing materials of varied thickness
- Double-sided honeycomb for large chambers prevents wall deflection under vacuum
- Various roll widths accommodated for ultimate flexibility
- Optional automatic web alignment for precision roll rewinding
- Power-to-power electrodes for treating both sides simultaneously
- Optional independent wind and unwind drives to maintain optimal material tension
- Tru-Temp electrodes re-circulate fluid to maintain a temperature setpoint

R-Series



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

March[®]
A NORDSON COMPANY

Leading Plasma Innovations

March Plasma Systems, Inc. 2470-A Bates Avenue Concord, California 94520 Telephone: 800-326-1151 Facsimile: 925-827-1189