

Reel to Reel System

The PE-2000R reel to reel plasma system is specially fitted with a continuous feed drive and take-up system to accommodate continuous flexible substrates and roll/reel mounted materials. This system can accept web widths of 2" to 24" with spindle diameters of 10". Tension control is accomplished by a pivoting arm 3 inch diameter in contact with the web in the process chamber coupled to a counterweight system outside the chamber isolated by a magnetic fluid feedthrough. It is actively controlled by the subsystem transport control. Virtually any tension can be set by changing the external counter weights outside the chamber.



STANDARD FEATURES

Electrode Configuration	Vertical, Planar – 4 Level; 24" W x 36"L; 72" Total Process Area; Will Allow 1 Meter Per Minute
Generator	2500W 13.56MHz Continuously Variable Power Supply with Automatic Matching Network
Gas Control	Three 0-2000cc Mass Flow Controllers with Low Gas Source Alarm and Multiple Gas Selection
Control System	Color PLC-Based Touch Screen Control Interface
Vacuum Gauge	1-2000 mT
Vacuum Pump	56CFM 2-Stage Dry Pump (Oxygen Service – Krytox Charged) with Blower
Chamber	6061-T6 Aluminum
Unit Dimensions	120" x 45" x 79"

FACILITY REQUIREMENTS

Electrical	120/208 VAC, 50/60 Hz, 3 Phase, 5 Wire, 100 Amps
Compressed Air Service	80-100PSI, 0.5CFM
Regulated Process Gases	25-30PSI
Cooling	Closed Loop Chilled Water Source

OPTIONAL FEATURES

- Custom Vacuum Chamber or Electrode Size
- Larger MHz Power Supplies with Automatic Matching Network
- PC-Based Control System
- Temperature Control System
- Dry and Oil-Driven Vacuum Pumps and Blower Boosters
- Chiller System for Dry Vacuum Pump
- Chamber and Vacuum Pump Purge Systems
- Vacuum Pump Oil Mist Eliminator
- Vacuum Pump Oil Filtration
- Automatic Vacuum Control
- Additional Digital Mass Flow Controllers
- Software Configurable Gas Steering Matrix 2x5
- Low Gas-Source Alarm
- Light Tower
- Fume Scrubber