













# PLASMA TECHNOLOGY SYSTEMS

## Molecular Re-engineering for Custom Surfaces

						
SYSTEM	PS0150/Emerald	PS0350	TC04	PS0524	PS0500	PS0500 Tumbler
Applications	Modification of Discrete Parts, Catheters, Tubing			Films, wovens, membranes up to 25" width	Discrete Parts	Multi-geometrical parts, porous material, powders
Chamber						
Chamber dim.	1.5 ft <sup>3</sup>	3.5 ft <sup>3</sup>	4.8 ft <sup>3</sup>	5 ft <sup>3</sup>		
Electrode Configuration	Side Wall			Vertical multiple parallel plate	Primary plasma driven shelf	Center pin, water-cooled
Shelf orientation	Six <i>removable</i> shelves on 1.5-inch centers.	Nine <i>removable</i> shelves on 1.5-inch centers.	Nine <i>removable</i> shelves on 2.5-inch centers.	None. Cartridge system.	Three fixed shelves, with four 4.5 inch high working areas	None. Rotating "tumbler" basket. Total volume 0.75 cubic feet.
	Shelf spacing can be customized based on part size.					
Control System	Microprocessor controller or Allen Bradley HMI-PLC stores from ten to 600 process recipes, each capable of up to five separate steps.					
RF Generator	500 watts	500 -1000 watts	1000 watts	500 watts		
Gas/Liquid Arrangement	200, 200, 50 sccm	1000, 1000, 100 sccm Fourth MFC plus multiple gas plumbing available. Liquid injection available on all systems.				
Pumping System	27 cfm	180 cfm pumping system, prepared for O2 service including oil mist eliminator and oil filtration unit				



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**PS1010 air-vacuum-air system**

**PS2020 Roll-to-roll with interleaf**

**PS Hammer Large Batch System**

**Plasma Science 60 inch Roll-to-roll**

Modification of continuous profiles of tubing and fiber

Modification of thin films, fibers and other spooled materials

Batch modification of materials up to 6 x 4 x 4 feet

Modification of films, wovens, non-wovens, foils, membranes and fabrics up to 60 inches wide