

Plasma Treatment System

PlasmaDyne Pro 1000R

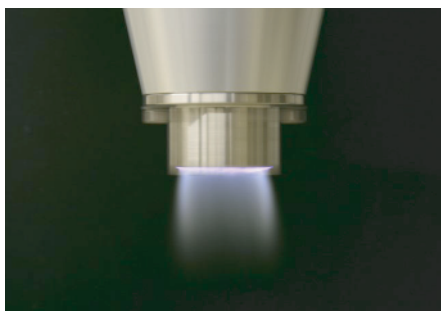


SOLUTION

The PlasmaDyne Pro 1000R generates atmospheric plasma that completes two functions in a single step: Atmospheric plasma cleans organic contaminants from the surface and alters the molecular structure of substrates thereby raising the surface energy and producing a stronger bond between the substrate and adhesive, ink, coating, and more.

PlasmaDyne Pro 1000R produces plasma from a high voltage electric current within a treating head. The plasma is then applied to a substrate by means of pressurized air. Power/treatment levels can be adjusted for each application. Rotating heads treat an area of 15 - 40mm.

Systems can be customized with 1 or more rotating and stationary heads. PlasmaDyne operates as a standalone unit or can be incorporated into a production line, such as an indexing table, conveyor, system or onto a robotic arm. PlasmaDyne Pro's Advanced control system ensure uniform, repeatable surface treatment and powerful bonding.



PURPOSE

The PlasmaDyne Pro 1000R was designed to provide reliable surface treatment on materials that tend to resist surface modification due to low surface energy. These materials include: plastics, rubber, glass, paper, metal and composites.

Plasma surface treatment eliminates inconsistencies in painting, printing, coating, bonding and cleaning applications. It radically improves surface tension producing long lasting bonds between substrates and media. These improvements produce a higher quality product with minimum scrap and downtime.

EQUIPMENT

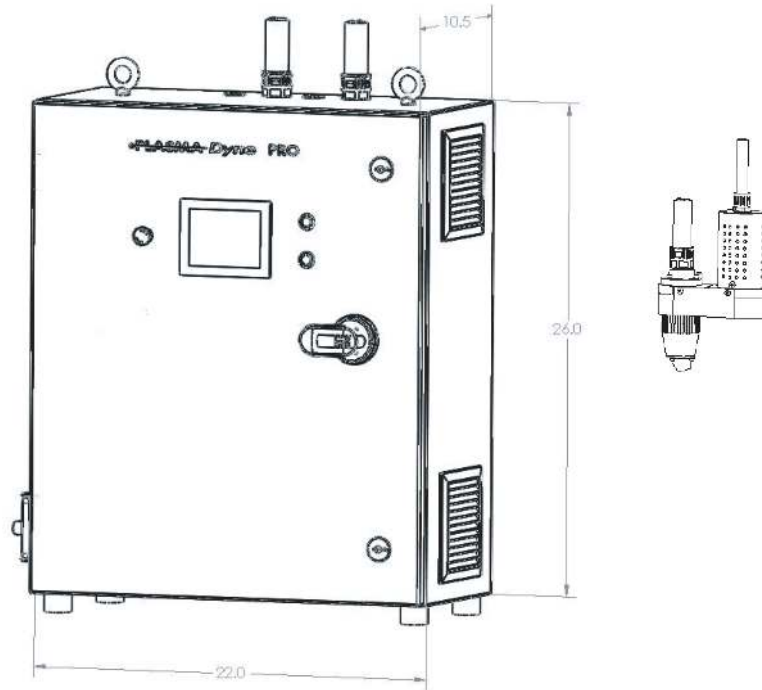
PlasmaDyne Pro 1000R includes:

- Single cabinet generator and transformer
- Adjustable power level up to 500W
- 1 or more rotating treatment head cable
- 2, 3, 4, 5, 6 m treating head cable
- Internal air supply
- Color touch display monitors all system parameters
- Intelligent fault monitoring system
- Downloadable USB operating log
- Compact and economical
- Safe and ozone-free



PlasmaDyne Pro 1000R

Plasma Treating System



SPECIFICATIONS

Model:	PLASMADYNE
Series:	Pro 1000R
Part #:	11034-64, -65, -66, -67, -78
Mains Voltage:	100-240V
Voltage Fluctuations:	± 10%
Frequency:	50/60Hz
Phase:	Single
Input Power:	0.9 kVA
Circuit Breaker:	15 Amp
Full Load Amperage:	7.0 Amp @ 100 VAC, 3.0 Amp @ 240VAC
Control Inputs (2):	Opto-Isolated, 24VDC - Sinking
Control Input Contact E-Stop/Safety:	24VDC, N.C.
Control Outputs (3):	1 SPST, NC - 2 SPST NO - 30VAC, 30VDC, 1A max
Enclosure Protection Rating:	IP43
Ambient Temperature Range:	° 41 F to° 104 F° (+ 5 C to°+ 40 C)
Relative Humidity (Non-Condensing):	From 20% to 80%
Maximum Altitude:	7,500 feet (2,300 Meters) above Sea Level
Dimensions (W x H x D):	22.0 x 26.0 x 10.5 in (560 x 660 x 270 mm)
Weight:	101 lb (46 kg)

DIVERSIFIED 
PRINTING TECHNIQUES

37 YEARS **1983** **2020**

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