

PlasmaDyne Pro 1000R Treating System



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

3DT's PlasmaDyne Pro 1000R includes:

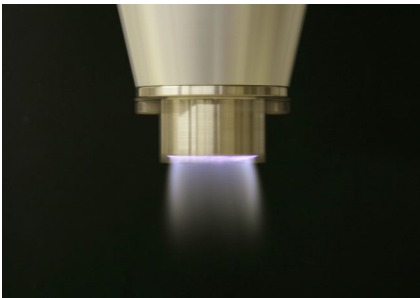
- Single cabinet generator and transformer
- Adjustable power level up to 500W
- 1 or more rotating treating heads
- 2, 3, 4, 5, 6 m treating head cable
- Internal air supply
- Local or remote PLC control modes
- Color touch display monitors all system parameters
- Intelligent fault monitoring system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

SOLUTION

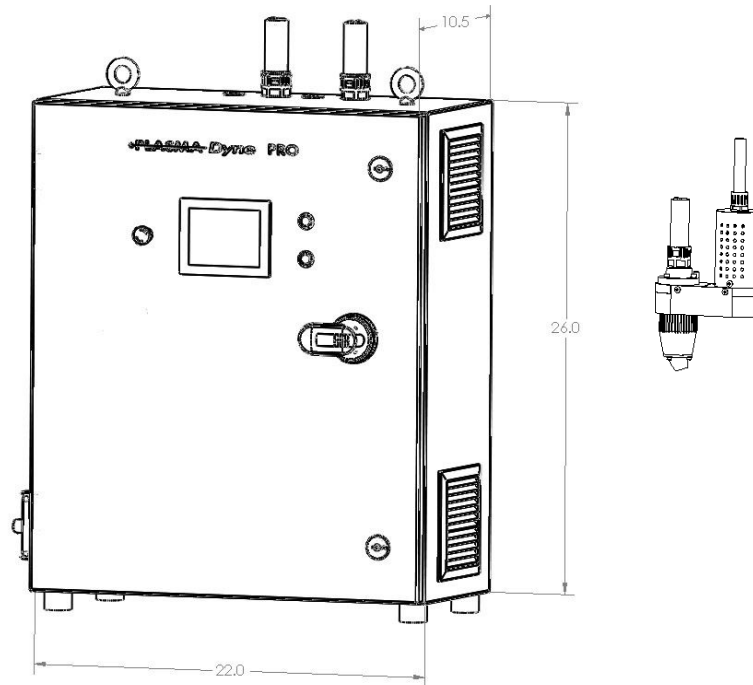
The 3DT PlasmaDyne Pro 1000R generates atmospheric plasma that completes two functions in a single step: atmospheric plasma cleans organic contaminants from the surface **and** alters the molecular structure of substrates thereby raising the surface energy and producing a stronger bond between the substrate 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 stand-alone unit or can be incorporated into a production line, such as an indexing table, conveyer system or onto a robotic arm. PlasmaDyne Pro's advanced control systems ensure uniform, repeatable surface treatment and powerful bonding.



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Equipment Specifications:

Model:	PLASMADYNE™
Series:	Pro 1000R
Part #:	11034-64, -65, -66, -67, -78
Mains Voltage:	100-240 V
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 @ 240 VAC
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 x 10.5 in (560 x 660 x 270 mm)
Weight:	101 lb (46 kg)