



**PlasmaPen™**

The **PlasmaPen™** is a patented atmospheric plasma system used to solve surface preparation problems. The **PlasmaPen™** produces high density plasma with a low heating effect, giving it the ability to clean and activate the surfaces including low melting point polymers. **Our worldwide customer base uses the PlasmaPen™** for a broad range of applications that span the Life Science, Electronics and Industrial markets.

The **PlasmaPen™** cleans and activates the surface of materials promoting wettability of potting compounds, adhesives, inks, paints and dyes. Surface cleaning with the **PlasmaPen™** ensures reliable wire and die bonding for semiconductor packaging. It has shown particular success in adhesion promotion of anisotropic conductive film (ACF) used in flat panel display manufacturing.

The patented design of the **PlasmaPen™** keeps voltages and current safely away from the plasma jet. This means that the user is not exposed to potentially dangerous voltages and surfaces are not subjected to damaging filamentary discharges.

The **PlasmaPen™** can be used manually or remotely through host automation. It is ideally suited to *in situ* treatments enabling rapid in-line processing, eliminating any activation lifetime issues. Process gasses are flowed through the pen, activated and ejected through the nozzle. PVA TePla's design allows compressed air to be the standard treatment gas for most applications and provides for a very low cost of ownership. Other gasses can be utilized depending on the specific application.

[To Request a Brochure/Literature/Product CD, Click Here](#)

Plasma Pen featured on Azom TV

**Plasma Pen from PVA TePla**



Technical Data

Width of treatment band (configurable)	3 - 10 mm
Service Interval (dependent)	1500 hours (gas)
Standard Cable Length	3 m - 6 m (9 - 18 ft.)

Power Requirements

Electricity	115 VAC, 1 phase, 60 Hz (4 amps max)
	100 or 230 VAC, 1 phase, 50/60 Hz (4 amps max)

Compressed Air      Compressed air (6 Bar, 88 psi), 1275 liters/hour (45cf3/h)

Other Gasses      N2, N2/H2, O2, CO2, He

Weight      25 kg / 55 lbs

Advantages

- High density plasma in contrast to corona discharge
- No electrical current or filamentary streamers in the plasma jet
- Broad material application capability
- Low thermal load allows treatment of low melting point polymers
- Simple host automation integration
- Low environmental impact (no chemicals, primers or vacuum)
- Onboard systems monitoring and diagnostics

Applications

- Adhesion Promotion of:
- Anisotropic Conductive Film (ACF) - FPD assembly
- Polymer adhesive bonding
- Inks, dyes and paints
- Potting, over mold and under-fill compounds
- Bio Materials

Critical Cleaning:

- Wire and Die Bond pads
- Fiber Optic Cables
- Weld Lines
- Packaging, caps and closures
- Connectors
- Optics

PlasmaPen™ Markets

- Chip scale devices
- Electronics packaging
- Flat panel displays
- Textiles
- Life Science and Medical device products
- Automotive, Aerospace and Nautical parts
- Wires, cables, fibers
- Toys and consumer goods
- Window/glass manufacturing

Options

- Robotic operation (Multi Axis or X, Y & Z)
- Multiple plasma jet array
- Foot pedal
- Custom fixtures
- Plasma detection
- Secondary gas cooling
- Ventilation hood
- Calibration equipment
- Full onsite service maintenance contract
- Plasma pulsing and secondary gas cooling

Safety Certification Standards

Independently laboratory tested:

- CE certified
- EN 61010
- EN 61326

Home > Contact Us > Find Your Sales Rep

## FIND YOUR SALES REPRESENTATIVE

### North America

#### Country

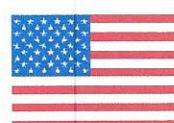
#### Address

#### Contact



**PVA TePla America Inc.**  
251 Corporate Terrace  
Corona, CA 92879  
U S A

**Sales**  
Tel. +1-951-371-2500  
Fax +1-951-371-9795  
Email. sales@pva-teplaamerica.com



**IES Technical Sales**  
250 North Street Unit A-9  
Danvers, MA 01923-1206

Phone: +1-978-777-2900  
Fax: +1-978-777-2908  
Web: [www.iestechsales.com](http://www.iestechsales.com)

East : ME, NH, VT, MA, RI, CT, NY, CAN (only Ontario and Quebec)

**Mike Berry**  
Phone: +1-617-947-5999  
Email: MikeB@iestechsales.com

**Sean Stull**  
Senior Account Manager and Technical Sales  
Engineer  
Phone: +1-978-777-2900 ext 218  
Email: Sean.Stull@iestechsales.com

**Cliff Mathisen**  
Technical Applications Specialist  
Cell: +1-978-376-8780  
Phone: +1-978-777-2900 ext 214  
Email: Cliff.Mathisen@iestechsales.com



**Electronica Profesional Industrial  
S. de R.L. de C.V.**  
Av. Montes de Oca No. 650  
Col. Pro-Hogar - C.P. 21240  
Mexicali, B.C. Mexico

Tel: +1 (52) 686-566-7001  
Fax: +1 (52) 686-566-1177  
[www.epimexico.com](http://www.epimexico.com)  
[epitecate@epimexico.com](mailto:epitecate@epimexico.com)  
[epi@epimexico.com](mailto:epi@epimexico.com)

**Ing. Juan Manuel Trejo G.  
Director General**  
Av. Montes de Oca No. 650  
Col. Pro-Hogar - C.P. 21240  
Mexicali, B.C. Mexico  
Tel: +1 (52) 686-566-7001  
Cell: +1 (52) 686-543-4822  
[juan.trejo@epimexico.com](mailto:juan.trejo@epimexico.com)

**Ing. Rodolfo Pena Aguilar  
Gerente General**  
Av. Montes de Oca No. 650  
Col. Pro-Hogar - C.P. 21240  
Mexicali, B.C. Mexico  
Tel: +1 (52) 686-566-7001  
Cell: +1 (52) 686-243-9185  
[rodolfo.p@epimexico.com](mailto:rodolfo.p@epimexico.com)

*Rayce@pva-tepla  
america.com*