



ATMOSPHERIC PLASMA SOLUTIONS™

APSplasma.com

*To innovate and deploy globally tools and techniques
that use the power of plasma*

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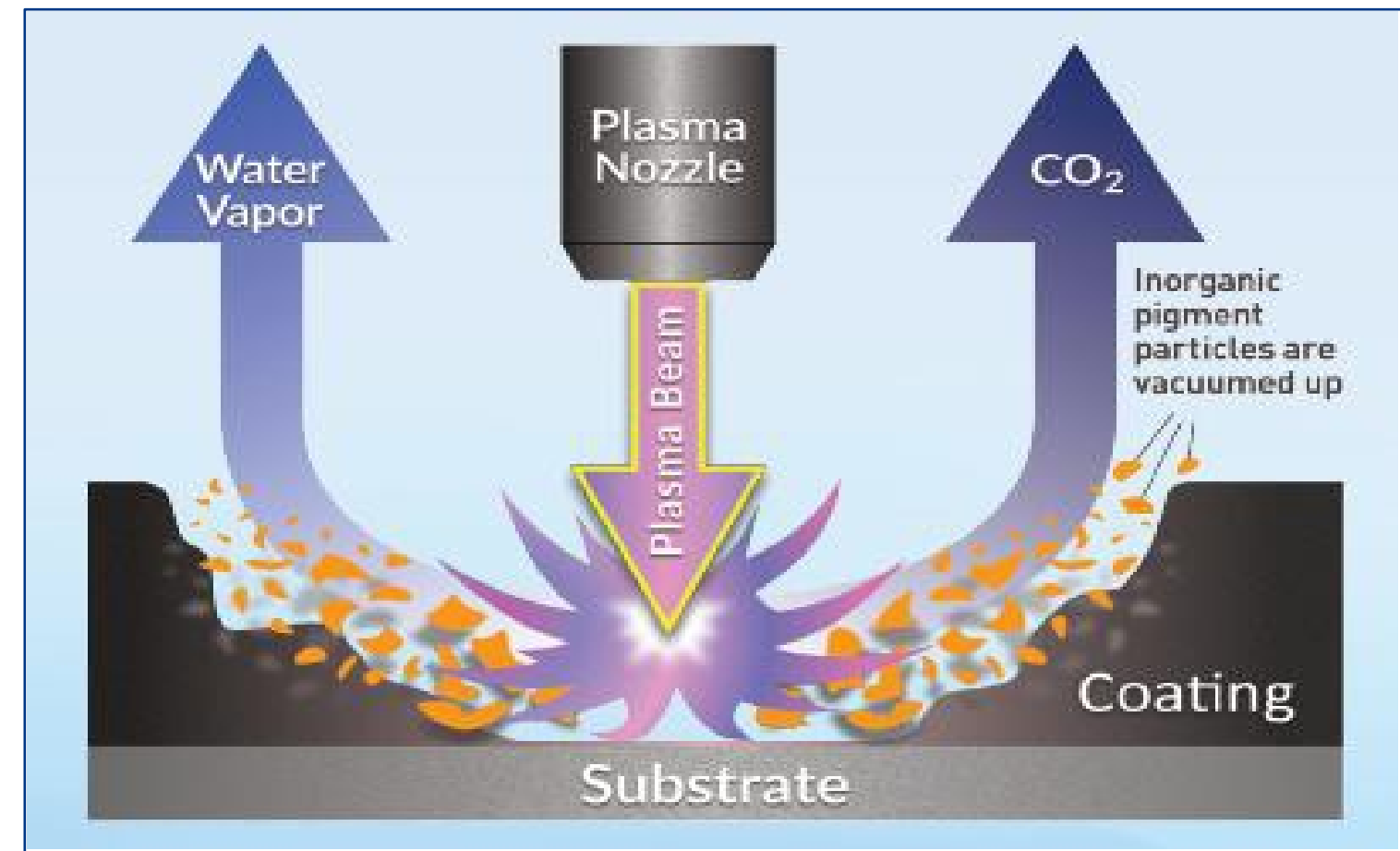
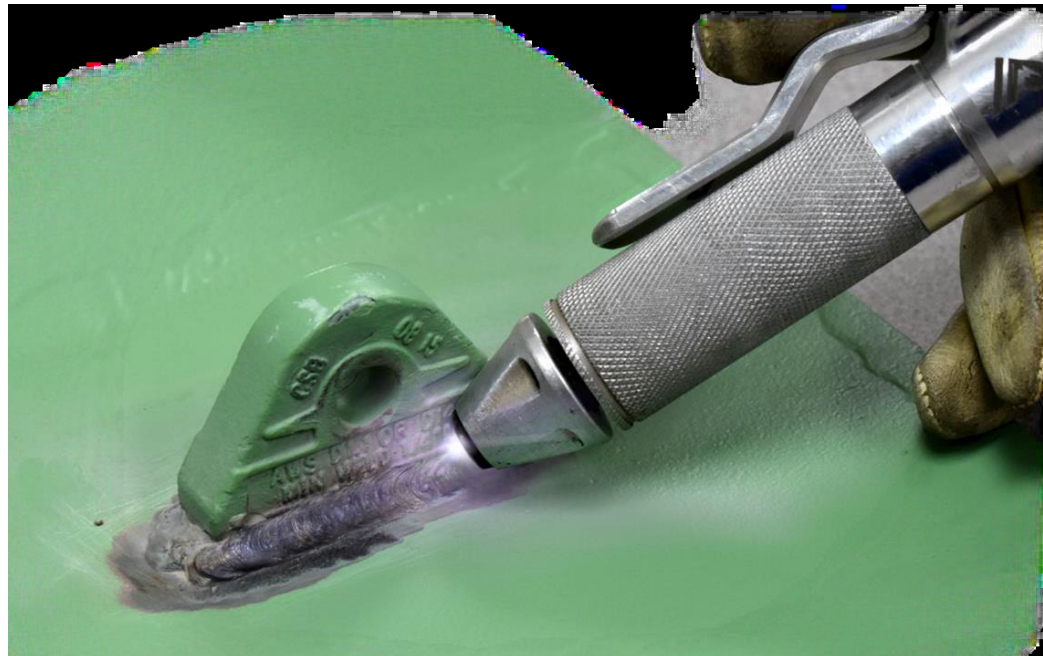
February 2022

COMPANY OVERVIEW

- Located in the Research Triangle of North Carolina
- Privately held, 2005
- 20 employees
- Research and manufacturing facilities dedicated to advancing plasma technology
- Plasma laboratory provides customer testing service for coating removal
 - Computer controlled, 3 axis robotic system
 - Variable size/power plasma systems
- Easy access to NCSU, UNC and Duke Universities provides collaboration opportunities.
- Commercial PlasmaBlast® units available for sale or lease
- 2019 Best New Technology Award- NCMS

TECHNOLOGY OVERVIEW

- Precision surface preparation, including coatings removal, on complex geometries found in marine, aviation, defense and commercial applications.
- Uses only compressed air and electricity.
- Removal process converts undesired coatings into harmless gases that are safely vacuumed away.
- Safer for operators and the environment than chemical stripping, media blasting or water jetting.



Strips and Preps in One Step™

- PlasmaBlast® removes coatings without physically altering the underlying substrate.
- Plasma creates enhanced adhesion, resulting in superior recoating finishes.

Fast, Effective Surface Preparation

PlasmaBlast® PB 7000-M Advantages:

- ✓ One tool removes unwanted coating, cleans surface, promotes adhesion
- ✓ Patented atmospheric cold plasma technology
- ✓ Requires only air and electricity, media and chemical free
- ✓ 90% labor savings demonstrated (traditional method comparison)
- ✓ Removes coatings in tight, awkward spaces with zero substrate damage
- ✓ Sealed system handles harsh environments from 14°F to 105°F
- ✓ Protective frame incorporates 8 isolation dampers- only 35 pounds
- ✓ Hand-held, ergonomic precision pen — zero vibrational impact



Fast, Effective Surface Preparation

Ideal Applications for **PlasmaBlast®**

- ✓ When coatings on bolts, eyelets, angles and holes present problems
- ✓ When increased coating adhesion is required
- ✓ When removing paint from aircraft/ships/bridges/ etc
- ✓ When falling debris/containment is an issue
- ✓ When operator fatigue from grinding, needle gunning and sanding is a problem
- ✓ When inspecting welds for NDT/NDE requirements
- ✓ When touch up or spot removal is needed



PlasmaBlast® Atmospheric Plasma Surface Preparation

Removes unwanted coating/cleans/promotes adhesion

COATINGS

- Acrylics
- Alkyds
- Latex
- Epoxies
- Polyurethans
- Polyesters
- Powder Coats
- Silicone / Polysiloxanes
- Polyurea
- Coal-Tar Epoxy
- Ultra High Solid

SEALANTS

- Elastomeric
- Caulking
- Polysulfide
- Polyether
- Butyls
- Acrylics
- Rubber
- Silicones
- Polyurethane

SUBSTRATES

- Steel alloys
- Cast Iron
- Aluminum alloys
- Titanium alloys
- Magnesium alloys
- Carbon Fiber
- GRP / Fiberglass
- Composites
- Concrete, Masonry, Brick
- Ceramics

...and more

Contact us for a FREE analysis of your specific coating/substrate combination



**ATMOSPHERIC PLASMA
SOLUTIONS™**

From Complex

needle gunning- media blasting



To Simple

PlasmaBlast® 7000

-wind turbine repair-





PlasmaBlast[®]
COATING REMOVAL SOLUTIONS

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