



3-IN-1 SURFACE PREPARATION SYSTEM



2023
DoD
MAINTENANCE
INNOVATION
CHALLENGE
WINNER

CLEAN
without waste

PREPARE
for better adhesion

REMOVE
with precision

The **PLIONYX Surface Preparation System** quickly and efficiently cleans contaminants, prepares surfaces for adhesion, and removes coatings and sealants without damaging the substrate.



BENCHTOP

MOBILE



- Solvent-free process eliminates negative environmental impact
- Replaces abrasive blasting, grinding and chemical baths
- No tedious clean up or costly disposal of blast media, sanding, or debris



- No dangerous light emissions or fumes
- Hand-held, ergonomic precision pen
- Light-weight pen enables significantly longer usage without fatigue
- No vibrational impact on operators



- Save on the purchase and disposal of various media and solvents
- Lower capital investment and reduce revenue lost to downtime
- No time intensive tarping or containment set-up or tear down



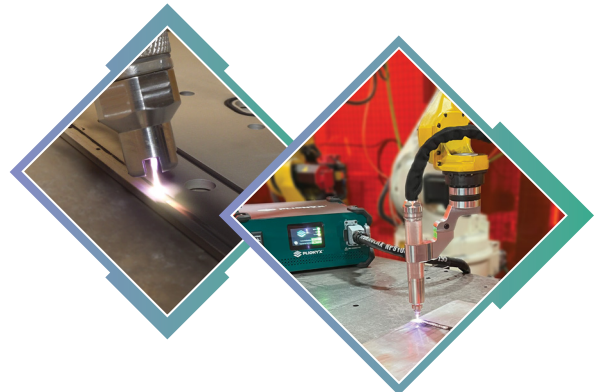
- Demonstrated over 90% labor savings compared to traditional methods
- Deploys in less than 5 minutes
- Simple to operate; no adjustments

* UNIQUE ADVANTAGES

- Causes no metallurgical or mechanical changes or damage to the underlying surface
- The plasma plume flows into cracks & crevices and wraps around complex surfaces like bolt threads
- Treated surfaces are prepared and ready for immediate use and/or re-coating with measurably better adhesion qualities
- Light-weight and easy to deploy; provides users with flexibility and is perfect for field applications
- Reduces negative environmental impact by eliminating the flow of toxic spent materials into landfills
- Robust design for demanding industrial environments

* INDUSTRIES

Aerospace / Automotive / Defense & Military / Corrosion Control
 Converting / Industrial Maintenance / Machine Rebuilding & Repair
 Metal Fabrication / Nondestructive Inspection & Testing (NDI/NDT)
 Oil, Gas & Energy / Plastics & Rubber Molding



AMPP™ SP21523 is the standard for use of atmospheric plasma coating removal and surface preparation.

PORTABLE * POWERFUL * PRECISE



Product Specifications



ELECTRICAL SPECIFICATIONS	240 VAC MODEL	480 VAC MODEL
Input Voltage	208-240 VAC, 50-60 Hz, single-phase	440-480 VAC, 50-60 Hz, three-phase
Input Current	18 amps, CE-14.5 amps	6 amps
Default Plug Type (NEMA)	L6-30	L16-30
Optional Plug Types (NEMA)	L6-20; L14-20; L14-30	L15-30 3-phase
Device EMC Status	Class A Group 2	
Applicable CE Standards	EN/IEC 61326-1:2013; EN/IEC 60974-10; EN/IEC 60974-1	
Degree of Protection	IP 52	

MECHANICAL SPECIFICATIONS	IMPERIAL	METRIC
Dimensions	16.6 in x 14.5 in x 7 in	42.16 cm x 36.83 cm x 18 cm
Weight	28 lbs	9.98 kg
Plasma Cable Length	20 ft	6.1 meters

OPERATING PARAMETERS		
Operating Temperatures	14° F to 115° F	-10° C to 46° C
Operating Humidity	< 95%, non-condensing	
Elevation	< 10,000 ft	< 3,000 meters
Operating Sound Level	~90 dBa	
Input Compressed Air Pressure	80 - 100 psi	550 kPa - 690 kPa, 5 - 7 bar
Rated Pressure	120 psi	827 kPa, 8 bar
Optimal Input Compressed Air Flow	3.5 CFM	99 SLM
Duty Cycle	100%	

* COMES COMPLETE WITH	COATINGS REMOVED	SEALANTS REMOVED	SUBSTRATES TREATED
<ul style="list-style-type: none"> • Hand-held or Robotic Pen • Grounding Cord With Clamp • 20 ft. Pen Connector Cable • Power Cord C19 to NEMA L6-30 • Operating Manual 	<ul style="list-style-type: none"> • Acrylics • Alkyds • Latex • Epoxies • Polyurethanes • Polyesters • Powder Coats • Silicone / Polysiloxanes • Polyurea • Coal-Tar Epoxy • Ultra High Solids • E-Coat 	<ul style="list-style-type: none"> • Elastomeric • Caulking • Polysulfide • Polyether • Butyls • Acrylics • Rubber • Silicones • Polyurethane • Oil • Grease • Tape(s) 	<ul style="list-style-type: none"> • Steel Alloys • Cast Iron • Aluminum Alloys • Titanium Alloys • Plastics • Carbon Fiber • GRP / Fiberglass • Composites • Concrete • Masonry, Brick • Ceramics

...AND MORE

* **CONSUMABLES**
(SOLD SEPERATEDLY)

- Replacement Nozzle Kit
- Replacement Plasma Electrode



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