

SurfacePrep XD-iP Integrated Atmospheric Plasma System

DATA SHEET

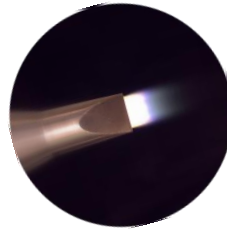
Safe, clean, cost effective solution for non-contact surface activation & cleaning prior to bonding, coating & printing

Up to 400mm X and Y travel and 1000mm / sec max speed – the Surface Prep XD-iP Integrated Plasma system combines precise treatment dosage with full interlock safety features and carbon activated exhaust filtration.

The Integrated Plasma system is driven by a fully programmable touch screen UI with multiple access levels for development and production applications.

Use compressed air or other gases such as O₂, N₂, Ar or CO₂ – providing the flexibility to create the exact reactive species needed to achieve your desired surface modification needs:

- Clean
- Mico-etch
- Activate / Wet
- Functionalize
- Deposit



Works on both conductive and non-conductive materials. Low temperature plasma is safe on sensitive polymers, thin films and glass. Treat stainless steel, Ti, NiTi, Au and other metals as well as these polymers:

- Pebax
- PEEK
- Nylons
- Polyimide
- Silicone
- HDPE / LDPE
- PET
- PVC
- Polypropylene
- Silicone
- PDMS

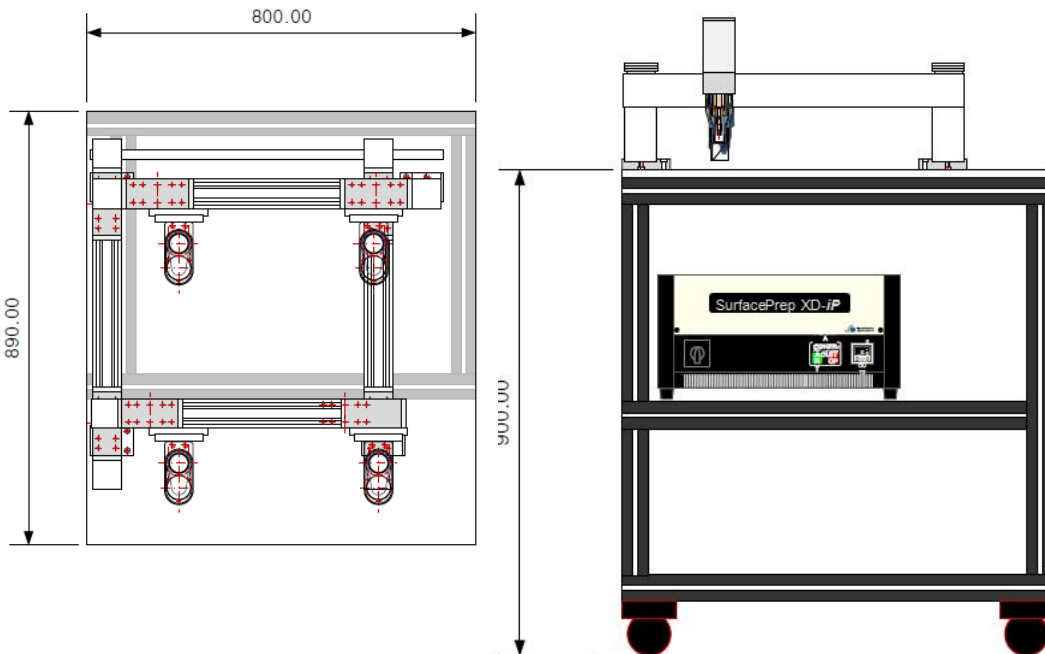


Plasma treat any form factor from 2D flat surfaces to complex 3D MEMS and micro fluidics. Typical applications include guide wire coating, catheter bonding & coating, electronics encapsulation, lab on chip, biotech – any Advanced Material Interface challenge.

Free your process from dangerous wet chemistry or dirty abrasive surface preparation methods. Try our safe, high speed atmospheric plasma solutions today.

EQUIPMENT SPECIFICATIONS

ITEM	UNIT	SPECIFICATION
Input Power	Volt	110
Input Frequency	Hz	50/60
Input Current	Amp	6
Output Voltage	Kvolt	Max 18 KV
Output Current	Amp	0.3
Max. Ambient Temp for Continuous Operation	Deg C.	60
Discharge Head	Ea	1
Dimension	mm (WHD)	800 x 900 x 890
Safety		Over Current Interrupter Air Pressure Regulator Carbon Activated Exhaust Air Drying Cooler Signal Tower Audible Alarm EMO
Gas Pressure	KGF/CM2	5
Gas Flow	LPM / Head	Max 40
Frame Construction		Aluminum Profile Powder Coated Panels Caster Rollers
System Control		PLC Touch Screen Interlocks EMO



SurfacePrep XD systems require either compressed air supply from a clean, dry source or bottled gas such as oxygen, nitrogen, argon or CO₂. "Welding Grade A" purity is acceptable – ultra high purity not required.

Gas supply is connected to the 8mm tube fitting on the back of the power supply and is required to be regulated between 0.15 MPa to 0.30 Mpa.

ADVANCED MATERIAL INTERFACE SOLUTIONS

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