

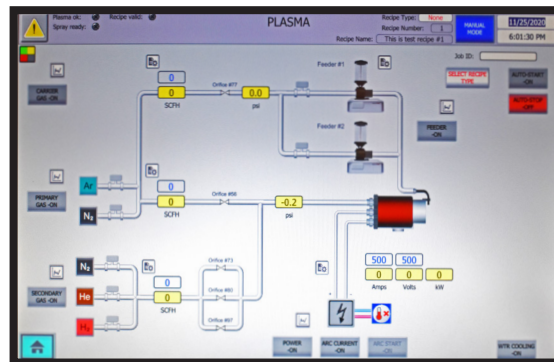
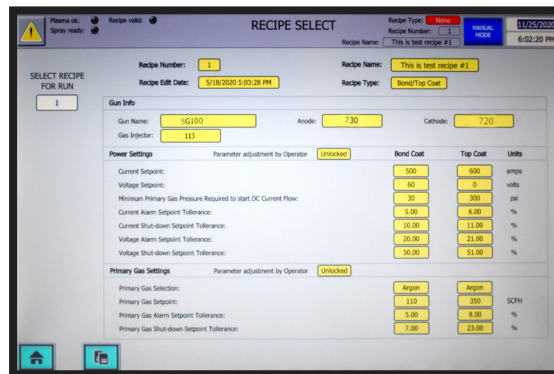
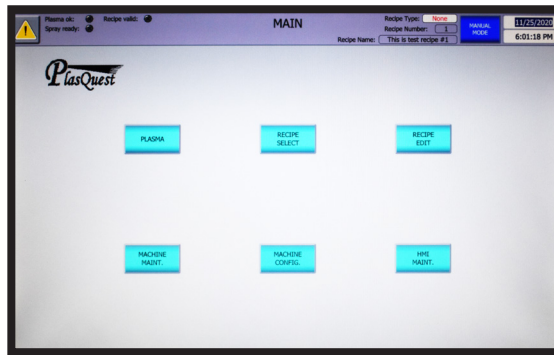
# PlasQuest 2000



20" Wide x 24" High x 8" Deep

## HIGHEST END

Closed Loop  
Thermal Spray  
Plasma System



## Electronic Pressure Regulators create Precise Gas Flow Through Critical Orifices

Electronic Regulators are accurate and repeatable, providing coating quality time after time

## PlasQuest 2000 Gas Panel



20" Wide x 24" High x 8" Deep



## Siemens PLC with Analog and Digital Control

### Siemens HMI Touch Screen

Displays the gas flow lines shown on screen

- Active vs. Non-active
- Active flow lines, turn green as they become energized
- Non-active flow lines are greyed until activated

### Display Shows

- Set points
- Actual values
- Recipe of choice
- Recipe name
- Recipe type
  - Bond or top coat

### Job Number

**Recipes:** Amps, volts, primary, secondary, carrier, powder feedrate #1 or #2

- Save
- Load
- Store
- Run
- Recall

### Prevents Mistaken Parameter Settings

- Choice of locked or unlocked

### Job Method

- Gun of choice
- Gun hardware build

### Alarms

Recipe loaded by Coating Engineer  
Alarms of caution and critical are variable

- Red alarms are loaded into the recipe
  - Shut down! System software protects coating quality
  - Display Red Alarm at top of active screen
  - Saved in Alarm Page for operator and maintenance
- Amber alarms are loaded into the recipe
  - Display Amber Alarm at the top of active screen
  - Saved in Alarm Page for operator and maintenance

### Choice of Desired Flow Readings

- PSI
- SCFH
- NLPM
- SLPM

### Gas Flow Perfection without Mass Flow Controller Drift

### Critical Orifice Technology with Precise Electronic Pressure Regulators

- Proven pressure stability
- Repeatable technology since 2012
- Verified, repeatable gas flow control
- Elimination of gas flow control drift

### Primary Gas Choices:

- Argon
- Nitrogen
- #56 Orifice provides PSI / SCFH / SLPM / NLPM flow choices

### Secondary Gas Choices

- Helium
- Hydrogen
- Nitrogen
- 3 Orifices #80, #73, #97 provides PSI / SCFH / SLPM / NLPM flow choice

### 1 Carrier Gas Control with Choice of 1 or 2 Powder Feeders

- #77 Orifice provides SCFH / SLPM / NLPM flow choices

### Interface to Robot [Option]

- Developed to robot specific

### Choose Data Logging [Option]

- Choice to data capture time periods
- Job number entry

### Laser Drilled Critical Orifices Through Diamonds and Rubies

- Accurate orifice sizing
- Orifice hole never wears open
- Pressure to the orifice input, creates the perfect flow through the orifice
- Expected flow never varies, never drifts

# Electronic Pressure Regulators

## to Critical Orifices



Proven History  
9+ years



High end quality



No drift



Repeatable



Dependable gas  
flow rates



Performance



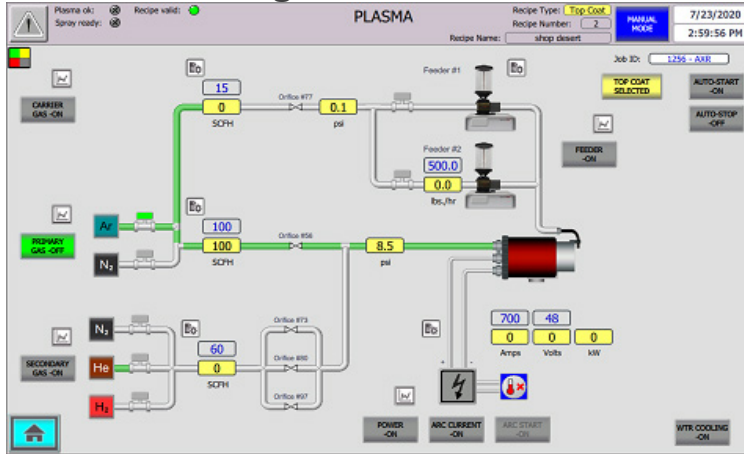
Less costs



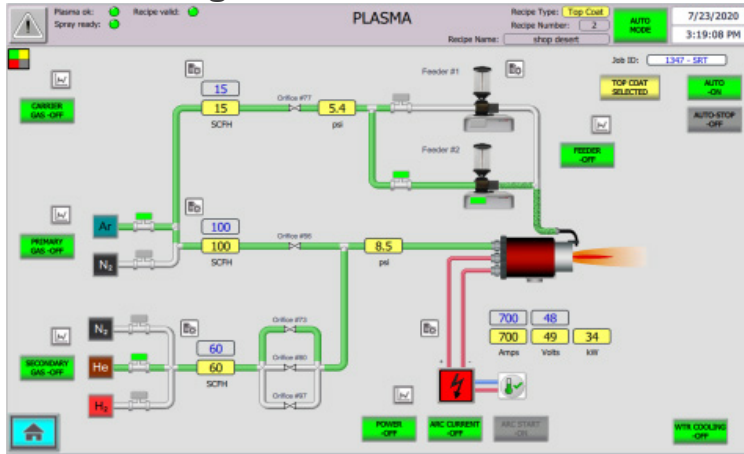
Happy, satisfied  
customers



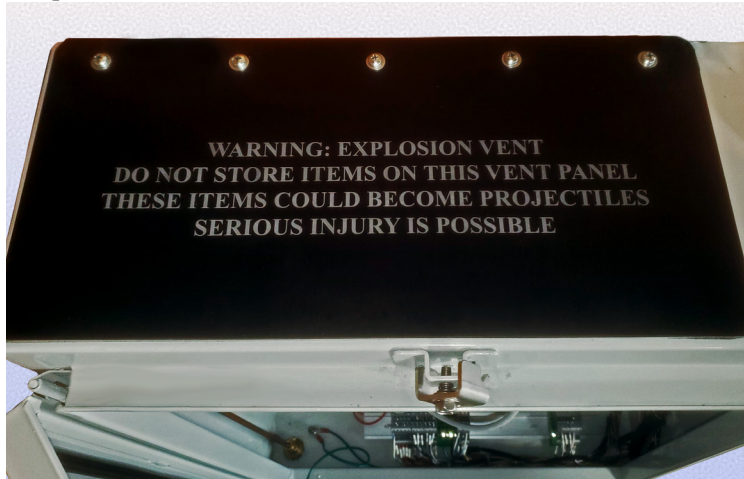
## Arc Gas Flowing



## Gun Running With Powder



## Explosion Panel



## H2 Sensor



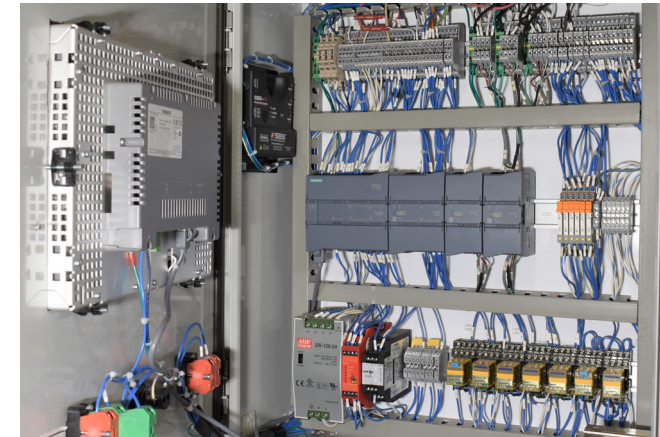
## Inside Gas Panel



## H2 Controller



## Inside PlasQuest 2000



## Gas Panel

