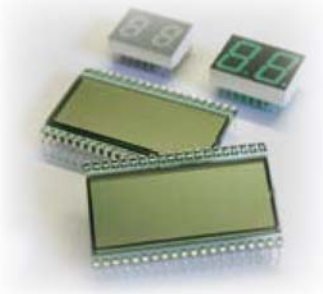


# Atmospheric Pressure Plasma Systems



# PlasmaBeam

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## Technical Data

PlasmaBeam

### 1. Supply Unit:

W 562 mm, H 211 mm, D 420 mm

Weight: approx. 20 kg

### 2. Plasma Applicator:

Max. Ø 32 mm, L 270 mm

Weight: approx. 0,6 kg

Length of cable: 3 m

(Special lengths on request)

Width of treatment: max. 12 mm

### 3. Generator:

Frequency: 20 kHz

Power: approx. 300 W

### 4. Connections:

Process and cooling gases:

Dry, oil-free compressed air

Input pressure: 5,5–8 bar

Gas flow: approx. 2 m<sup>3</sup>/h

Power supply: 230 V/6 A / 50-60 Hz

### 5. Operating Modes:

**Manual operation:**

With the buttons „Plasma ON“ and „Plasma OFF“ on the front panel of the supply unit.

**Semiautomatic:**

Remote control through SUB-D 25-pin connector on the rear panel of supply unit.

### PlasmaBeam treated and water sprinkled surfaces:



picture: aluminium



picture: plastic



# PlasmaBeam PC

## Technical Data

PlasmaBeam PC

### 1. Supply Unit:

W 562 mm, H 360 mm, D 650 mm

Weight: approx. 30 kg

### 2. Plasma Applicator:

Max. Ø 32 mm, L 270 mm

Weight: approx. 0,6 kg

Length of cable: 3 m

(Special lengths on request)

Width of treatment: max. 12 mm

### 3. Generator:

Frequency: 20 kHz

Power: approx. 300 W

### 4. Connections:

Process and cooling gases:

Dry, oil-free compressed air

Input pressure: 5,5–8 bar

Gas flow: approx. 2 m<sup>3</sup>/h

Power supply: 230 V/6 A / 50-60 Hz



### 5. Operating Modes:

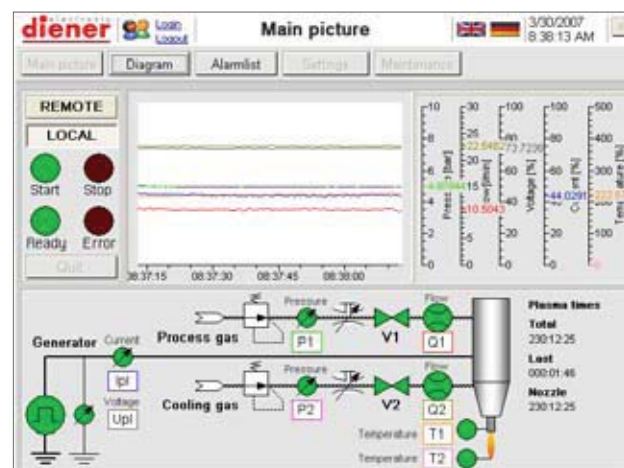
Process visualisation is based on a PC running MS-Windows

#### Manual operation:

Manual operation of the system through dialog box or Plasma ON / OFF button

#### Automatic operation:

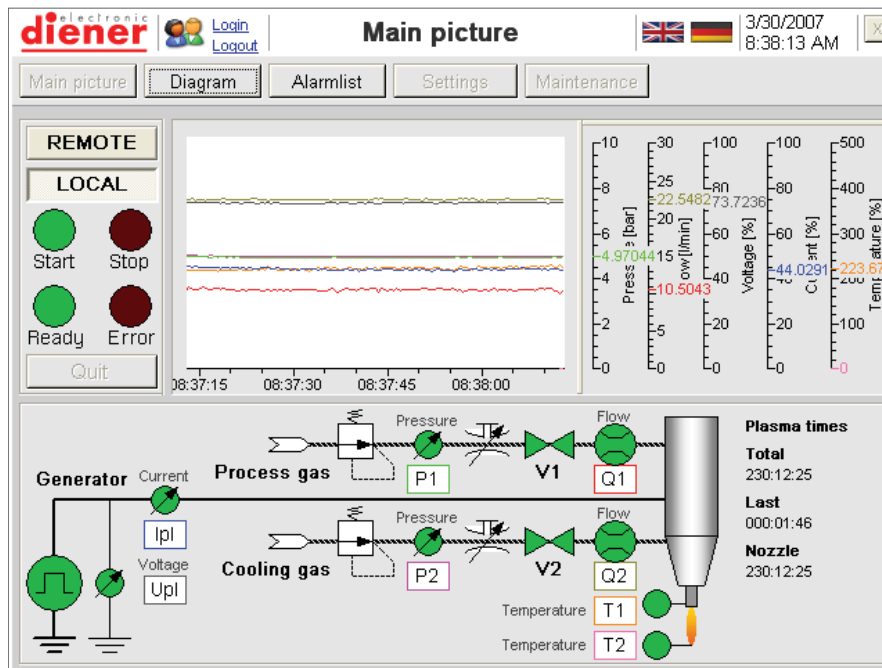
Remote control through SUB-D 25-pin connector on the rear panel of supply unit.



## Process Visualisation Software

The PC Version of the PlasmaBeam was made for high standards on the process control and documentation:

- Visualisation of the unit
- Entry of comments
- Saving of all relevant parameters
- Documentation of all important data



## Additional options

- Special cable length with additional transformer box
- Spare part sets
- Compressed air filter
- 19" rack mount cabinet (PlasmaBeam)
- Temperature measurement of the jet (PlasmaBeam PC)
- Test inks
- Quotation for maintenance
- 3 axis robot with protective casing
- Custom automation
- Other options on request

The PlasmaBeam is suitable for installation with robots and can be introduced into existing automated manufacturing lines without great effort.

Our atmospherical plasma systems are already being used by the following companies:

AEG  
Cherry GmbH  
Honda  
Robert Bosch GmbH  
Ise Intex  
Marquardt GmbH  
Mühlbauer AG  
Raytheon Company  
Saint-Gobain  
Sensortech GmbH  
Sick AG  
Siemens AG  
Sonotec GmbH  
Witzenmann GmbH  
and many more...

## Applications

- Degreasing / cleaning
- Hydrophilization
- Pre-treatment before printing
- Pre-treatment before bonding
- Pre-treatment before painting
- Pre-treatment before soldering
- Pre-treatment before and after molding
- Pre-treatment before and after casting
- Pre-treatment before gluing
- ...

## Application Area

- Plastics industry
- Automotive industry
- Electronic industry
- Elastomer industry
- Precision mechanics technology
- Micro electromechanical Systems
- Medical devices manufacturing
- Solar cell technology
- Research and development
- Semiconductor technology
- Optical industry
- ...

## Our Service Offers

- Individual customer service
- Free treatment of samples
- Free plasma treatment consultation
- Development of plasma systems
- Plasma systems for rent
- Plasma systems for hire purchase
- Different financing concepts
- Wage labour
- Onsite process development available
- Surface analysis
- Providing informative materials
- Complete technical service
- Service contracts
- ...

Visit our homepage:

[www.plasma.de](http://www.plasma.de)