



# POWDERJET 85

## Combustion Powder Spray Gun

The Plasma Powders **PowderJet 85** powder metalizing gun system components:

### PPS 2GF Gas Flowmeter:

The 2GF Gas Flowmeter allows the operator to easily set, maintain and monitor gas flows. Proper flows are crucial to combustion fuel coating applications. Ease of lighting, spray rates, coating quality and equipment health are all dependent on the Oxygen, Fuel and Air levels passing into the torch.

When adjusted to proper values, users will achieve proper bond strength, optimal coating quality and waste control. As well as keeping your consumable parts in good condition.



### PPS AT-100Air Trio:

Compressed air is fed into the air trio where it is filtered, then regulated to the required pressure. Air is then cleaned and dried again in the second filter, then onto the torch.

An available, regulated secondary output slide valve can be used for auxiliary air needs like part cooling or cleaning.





## PPS PowderJet Extensions:

All the combustion powder guns offered by Plasma Powders can be equipped with spray extension nozzles. The extensions come in 1- or 2-foot lengths, can be fitted with 80 or 45° angular gas heads. Typical uses are internal diameter or hard to reach coating surfaces.

Installation is simple by removing the standard Air Cap Body and Siphon plug and replacing them with the extension. This can be done in about 1 - 2 minutes without tools.



## PPS 2PSA Air Jet:

The PPS-2PSA Air Jet connects directly to the PowderJet 85 Air Cap Body. Thumb screws provide for easy, pin-point adjustment of the Air Jets. The unit connects to the PPS-AT-100 Air Trio using only an additional air hose and can be used with or without the standard cooling air option in the torch.

PPS-2PSA is required for most ceramic powder spray..

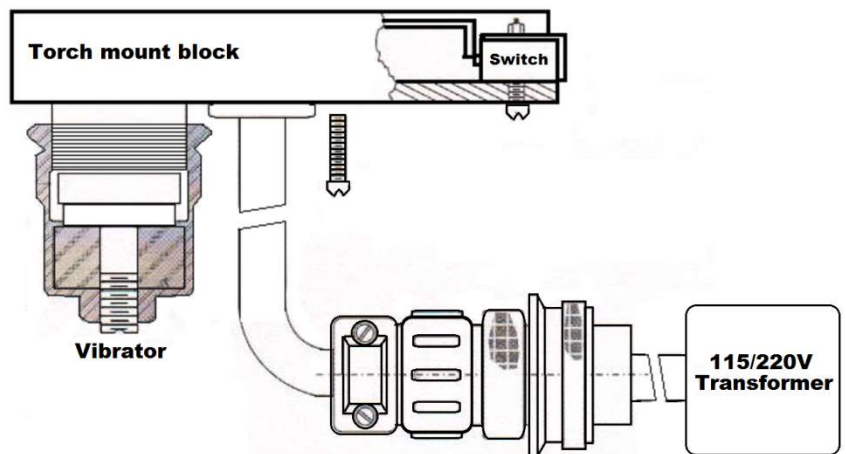




### PPS 5PV Vibrator:

PPS-5PV Vibrator assembly connects under the handle to the bottom of the PowderJet 85 torch. The unit is used with certain powders like ceramics to provide better, more even powder flows.

A 110- or 220-Volt Transformer is required.

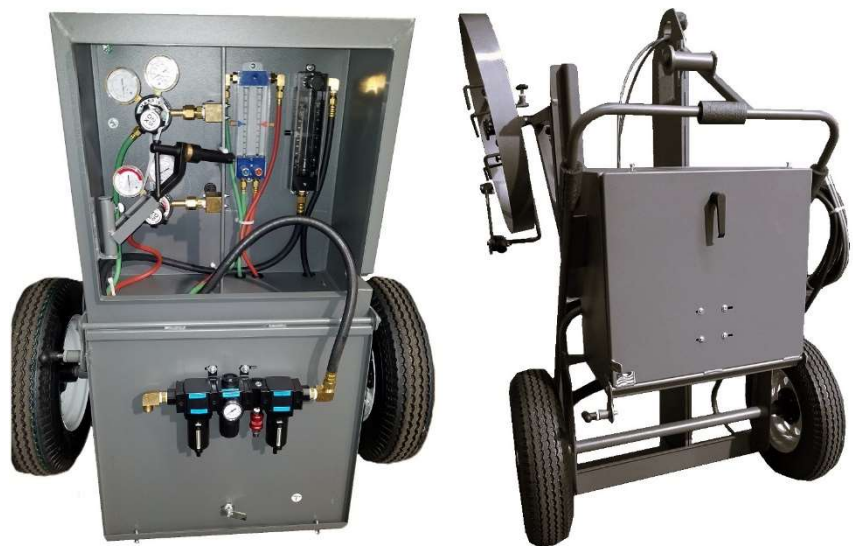


### PPS Mobile System Cart:

Our Combustion Wire or Powder systems can be installed in the Mobile System Cart.

This heavy-duty cart holds all the system components & fuel tanks.

You will need a compressed air connection for Wire guns, air is optional for most Combustion Powder spray. Great for remote work or large area shops.





## PowderJet 85 Torch:



The lightweight and durable PowderJet 85 combustion powder torch can be used hand-held or machine mounted. This unit sprays pure, alloyed or ceramic powders.

PowderJet 85 incorporates a top mounted, gravity feed hopper. Multiple powder metering valves and spray rate settings provide the ability to use a wide range of materials to suit most powder applications. One-step, bond coats, ceramics and spray and fuse coatings are all possible with this versatile torch.

Powered by Oxy/Acetylene, the entire system (except if using vibrator or air, which requires electricity or a compressor), can easily be mounted on a burning cart for mobile applications and field repair work.

See it on youtube: [PowderJet 85](#)

System flow diagram:



Plasma Powders & Systems, Inc.  
PowderJet 85  
Connection Diagram

