

**E**ngiCote® 5300 system is an economical and easy-to-use PLC controlled mass-flow Plasma Spray System for thermal spraying HA 6137 series powders. .

When using our EngiCote® 5300G Internal Feed Plasma Gun, the coating produced provide a protective layer on the engine components which improves the resistance of the surface to wear, corrosion and erosion dramatically. These properties are critical for successful coating applications in engine performance, fuel efficiency, and horsepower output.

Composite powders are difficult to feed as they have a tendency to separate. Therefore, HAI utilizes the EngiCote® 5300F Constant Volume Powder Feeder with single or dual powder feeding capability by design. The powder in the canister is spread to a separate feed plate which dispenses the powder, under low pressure, fed by Mass Flow Controlled Carrier Gas to the Plasma Gun. Powder feeding is monitored and controlled by a closed loop feedback load cell that accurately meters the powder to the gun.

The EngiCote® 5300 system performance is backed by the heavy duty, water cooled, inverter power supply which supplies clean, ripple-free power to the gun. These unique processes together form the EngiCote® 5300 system designed to provide the highest density and homogeneous coatings that you will ever Thermal Spray.

Whether your coating application is for standard or racing engine components this system provides the most consistent and reliable coatings used in the industry today. It is your key to unlocking your goals and achieving your team's winning edge!



**System Features**

- Digital Primary & Secondary, and Powder Feed Gas Mass-Flow Control Meters
- PLC Controlled Console, Integrated with Robotics.
- Separate Gas Module
- Closed Loop Powder Feed Unit, Integrated with Control Console
- High efficient, low ripple, stable arc through out the full range of plasma gun capabilities

**Components**

**Control Console:**

Model 5300C is a mass flow control console to precisely meter the flow of gases to the gun. .

**Gas Control Module:**

Model 5300GCM included as a separate unit

**Power Supply:**

Model 5300P is a three-phase, constant current, inverter Power Supply .

**Gun:**

Model 5300G is a lightweight, compact, robot-mount gun.

**Powder Feeder**

Model 5300F is a closed loop, Constant Volume feeder designed to deliver consistent flow of powder.

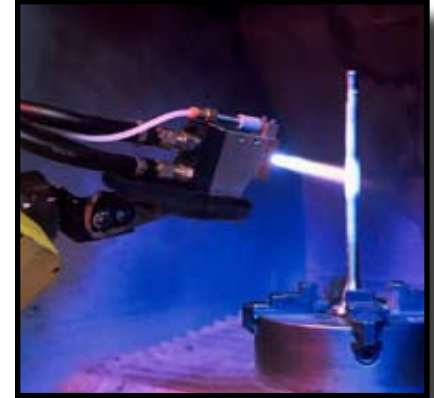


Fig 2.

**System Specifications**

**Control Console:**

H x W x D (ft.) - 2.9' x 2.2' x 1.9' Weight - 220 lbs.

**Power Supply:**

Power Req. - 3 Phase, 480V, 80A/ph  
H x W x D(ft.) - 2' x 1.4' x 2.5' Weight - 231lbs.

**Gun**

L x W x D (in.) - 6" x 3" x 3" Weight - 4 lbs.

**Powder Feeder:**

H x W x D (ft.) - 2.2' x 1.3' x 1.3' Weight - 88 lbs.

**Chiller:**

Power Req. - 3 Phase, 480V, 60A, 60 Hz Fluid Pump/  
GPM - 10 @ 250 psi Capacity - 10 tons H x W x D  
(ft.) - 3.8' x 2.8' x 5' Weight - 1500 lbs.



**Contact Us**



**For more information  
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