

Coating Excellence with Specialized HVAF Systems

We Develop New Thermal Spray Markets Delivering HVAF to the Industry

Fine-tuned combustion and powder path combinations to fit your application:

- ✓ Particle velocity: variable, 400 to over 1,000 m/s
- ✓ Particle temperature in the jet: 900 - 1,600°C
- ✓ Combustion temperature: variable, 1,500 - 1,950°C
- ✓ 1 - 10 to 53 - 155 µm powder sizes



Kermetico SL

Specialized system to deposit low melting point metals

- ✓ Protection against feedstock oxidation
- ✓ No nozzle clogging
- ✓ Uniform, dense, high-bond aluminum, tin, zinc and copper coatings
- ✓ High spray rate
 - 6 kg/hour (13 lbs./hour) for Al coating
 - 10 kg/hour (22 lbs./hour) for Cu, Sn and Zn coatings



Kermetico SP

Specialized system to deposit gold or silver coatings with the highest deposit efficiency

- ✓ Precise powder usage measurement
- ✓ No material evaporation in the spray-process
- ✓ High-bond, non-oxidized, highly uniform coatings



Kermetico STi

Designed gun to deposit titanium and its alloys

- ✓ High-velocity Ti spraying in an inert gas atmosphere
- ✓ Low level of oxidation, silver-like coating appearance
- ✓ Dense coating
- ✓ For corrosion resistant coatings and for material build

We have designed our Specialized equipment to spray functional metals and alloys in the most effective way. These High Velocity Spray Systems are fine-tuned for the deposition of particular coatings.

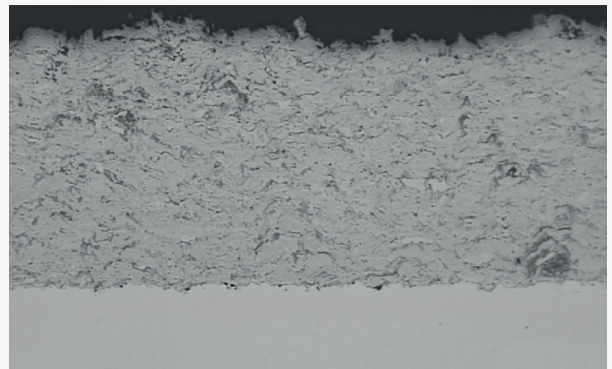
We Haven't Discovered All the Limits of HVOF Yet. Will You?

A big combustion chamber of our guns and comparatively low gas combustion temperature has allowed us to deliver powder materials axially, directly to the combustion zone, where it is heated gradually and evenly. Having a

large diameter, flow optimized nozzle and narrow powder jet allows us to minimize nozzle wall influence on particle velocity. The multiple gun setup option let us spray materials with different melting points not overheating them.



HVOF Cu Coating
275 μm Thick, Porosity <0.5%



HVOF Cu Coating
400 μm Thick, Porosity <0.5%



HVOF Al Coating
225 μm Thick, Porosity <1%



HVOF Ag coating
200 μm thick, porosity <0.5%

We have been developing our process and equipment in California, USA since 2006. More than 60 Kermetico HVOF and HVOF systems are at work worldwide.

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