Multus Cascade Plasma Spray System from Arzell, Inc.
Next Generation Plasma Torch and Control

BENEFITS:

- Largest range of achievable enthalpy levels – up to 60kJ/g, well beyond any existing thermal spray system
- Greater operating range and plasma efficiencies achievable at lower plasma gas volumes and power levels
- Markedly better coatings at lower costs due to higher material deposition efficiencies
- Improved quality and reproducibility of coatings
- Greater flexibility in nozzle selection and performance due to the C+ Cascade Plasma torch design
- C+ torch design allows for simple serviceability and improved durability
- Easy switching between any plasma gas combinations
- Expansive and stable operating range allows for high quality ceramic and metallic coatings
- Significantly longer torch part life over existing devices (50 hours nozzle life @100kW for Nitrogen-Hydrogen plasma operation with 150-200 hours for cathode and neutrode inserts)
- Spray system can utilize most legacy plasma torches (SG100, 3MB, 9MB, Sinplex, F4, F1, etc.)

FEATURES:

- Modular design utilizing mass flow controllers that provide ultimate repeatability and consistency
- Patented C+ Cascade Plasma torch allows for any combination of plasma gases
- The use of nitrogen as the primary gas
- Separate anode and cathode gas lines that results in double swirl stabilization
- The elimination of arc pulsing and drifting that are common to legacy plasma systems
- Swift establishment and retrieval of recipes
- Intuitive and robust industrial 15" touch screens
- Operation and maintenance logs to maintain compliance requirements
- Warning and alarm levels for all parameters

Multus System Specifications, Full Package:

- Main Control Panel with HMI
- Modular gas system
  - Anode gases, Ar & N_2
  - Cathode gases, Ar & N_2, He, H_2
  - Carrier gas, 2 x Ar
- Model 5 C+ Plasma Torch, 60 kJ/g enthalpy
- 120kW power supply
- Distribution module
- Hose connection package
- 20 ton (70 kW) chiller recommended

Please contact sales@arzell.com, call (281)-213-4085 or visit www.arzell.com for pricing, options and more information.