KM-COS

Features
- Closed-loop pressure control
- Built-in mass flow metering
- 6-axis robot + coordinated 7th axis motion control
- Dual Powder Fluidizing Units
- Continuous operation
- Dual-layer/composition coatings
- Multiple gas compatible (He, N₂, & mixtures)

Thermal Conditioning Unit
- Friction Compensated
- Patented Sonic Design
- Long-Life Cemented Carbide Material
- Max. Gas Temp: 1400°F (760°C)

Thermal Conditioning Unit
- Nozzle Integrated, 3.8kW
- Stainless Steel Powder Injection Tube
- Powder/Pre-Heater Mixing Chamber
- Light-Weight, Low Thermal Inertia

Dual Powder Fluidizing Units
- Patented Brush-Sieve Design
- Light-weight pressure vessel
- Proven Consistent Feed Rate
- Powder Size: 500nm - 50μm
- Feed Rate: 1-100g/min
- Powder Mass Flow = Gas Mass Flow

Pressure/Mass Flow Control
- Low Pressure Operation: 395 - 895kPa
- Low Gas Flow Rate: He: 620slpm max
- N₂: 225slpm max
- He/N₂ blend: 275slpm/55slpm max
- Low Inlet Pressure: 1MPa
- Dual Mass Flow Controllers

KM System Control
- UL Listed, NFPA 70, ANSI/RIA R15.066
- Fully Integrated Control Software
- Optional Integrated Robot Control
- Optional Dust Collector Interface
- Real-time Human-Machine Interface
- Full Parameter Data Logging 1/sec
- Quality Technical Support

KM Process Display
- Localized User Display
- Supervisor Mode:
  - Real Time Process Parameter Change
  - Recipe Creation
- Operator Mode:
  - Recipe Load and Run
- ISO - 9000 Report Archives