

# KM - PCS



## Features

- Closed-loop pressure control
- Built-in mass flow metering
- Optional Integration Package
- Dual Powder Fluidizing Units
  - Continuous operation
  - Dual-layer/composition coatings
- Multiple gas compatible
- He, N<sub>2</sub>, & mixtures

### KM Nozzle

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



### Thermal Conditioning Unit

- Nozzle Integrated, 3.8kW
- Stainless Steel Powder Injection Tube
- Powder/PreHeater 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

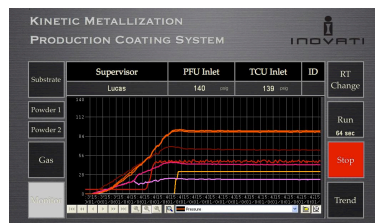


### Pressure/Mass Flow Control

- Low Pressure Operation: 395 - 895kPa
- Low Gas Flow Rate: He: 620slpm max  
N<sub>2</sub>: 225slpm max
- He/N<sub>2</sub> blend: 275slpm/55slpm max
- Low Inlet Pressure: 1MPa
- High Accuracy Mass Flow Controllers
- High Performance PID Algorithm

### 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 (Any Language)
- Supervisor Mode:
  - Real Time Process Parameter Change
  - Recipe Creation
- Operator Mode:
  - Recipe Load and Run
- ISO - 9000 Report Archives

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