

# THERMAL SPRAY COMPONENTS

## MP200 Gas Module

Using the MP 200 Thermal Spray System, for each spray process a separate MP 200 Gas Module is available. A gas module contains all the relevant media to run nearly all commercial thermal spray guns:

- Plasma spray guns
- HVOF spray guns, liquid fuel and/or gas fuel
- Flame spray guns, powder and/or wire material

The Gas Module is equipped with following main features:

- Mass flow controllers
- Gas inlet filters
- PLC Remote I/O modules
- Pressure regulators and control valves
- carrier gas selection Ar or N<sub>2</sub>
- Plasma gas mixture device and expansion unit (Plasma)
- Kerosene pump (HVOF liquid fuel)

### Safety

- purged electrical box
- gas detection sensor
- air flow through cabinet

All necessary connections are prepared for the carrier gases of the type Twin-20MFC powder feeder. The flow accuracy for all process media is  $\leq 2\%$ .

### Example Plasma

Argon 0.1 - 100 NLPM  
Hydrogen 0.02 - 20 NLPM  
Nitrogen 0.1 - 100 NLPM  
Helium 0.2 - 200 NLPM

### Example HVOF 1

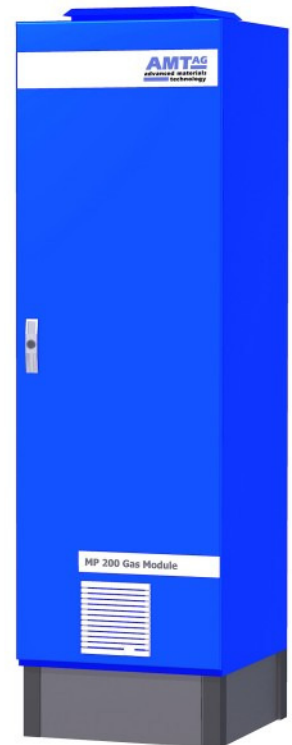
Oxygen 24 - 1200 NLPM  
Kerosene 2 - 45 Lhr

### Example HVOF 1

Oxygen 24 - 1200 NLPM  
Hydrogen 24 - 1200 NLPM

### Example HVOF 1

Oxygen 24 - 1200 NLPM  
Hydrogen 24 - 1200 NLPM  
Kerosene 2 - 45 Lhr



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