

# Metallisation Plasma PS50M-PC

Thermal spray equipment and consumables



The Metallisation PS50M-PC is the latest development to our 50kW Atmospheric Plasma Spray (APS) system. All of the great features of the PS50M have been retained: the system is still mass flow controlled for repeatable coating quality and the operator interface is still very simple. The latest developments are to the powder feeder and operator interface. The powder feeder has mass flow controlled carrier gas and closed loop motor control for reliability and repeatability of powder feed rates. The operator interface is still simple to follow but is now via touch screen rather than pushbuttons. The result is a high quality, compact and easy to use Plasma system.

- Mass flow control of primary, secondary and carrier gases = repeatability
- Inverter power supply = stability
- Easy to use, intuitive operator interface
- PC control with touch screen operator interface
- Optional keyboard control or operator interface unit
- Unlimited recipes and parameter recording
- Manual or fully sequenced start-up, operation and shut-down
- Straight, 90 degree and extension guns
- Internal and external powder ports
- Safety interlocks to prevent running without coolant and gases
- Argon primary and Nitrogen, Helium or Hydrogen secondary gases
- Can operate non-Metallisation pistols

## Typical Applications:

- Print rolls / Analox rolls
- Paper rolls
- Mechanical Seals
- Aerospace engine
- Aerospace airframe
- Wire Drawing Capstans
- Automotive valves
- Base Coat to Non-Stick Surfaces such as Teflon

Typical Material	Powder Reference	Throughput Grams/min	Deposit Efficiency %
Grey Alumina	99205	20	67
Alumina Titania	99220	24	76
Chrome Oxide	99225	39	47
Magnesium/Zirconium Oxide	99275	38	75
Nickel Aluminium Moly	99627	51	67
Tungsten Carbide/Cobalt	99735	55	75

All figures are approximate.

