

Metallisation

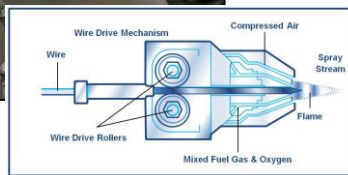
thermal spray solutions

Metallisation Ltd is the only UK manufacturer and worldwide supplier of metal spray equipment, consumables, wires and powders. The company is proud to be considered as leading experts worldwide in the supply and support of advanced, innovative surface coating technology.

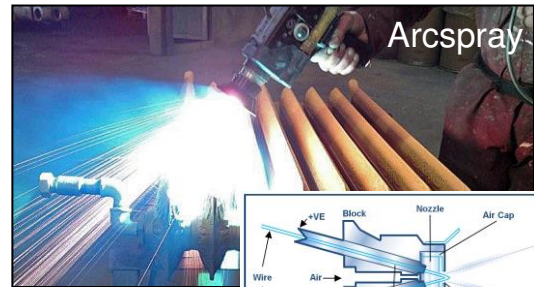
Metal Spray Processes:



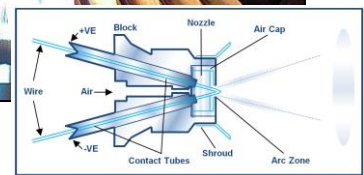
Flamespray



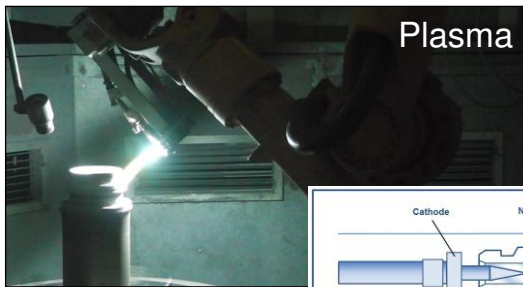
Uses gas and oxygen to melt the wires before spraying with compressed air.



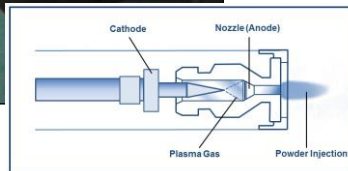
Arcspray



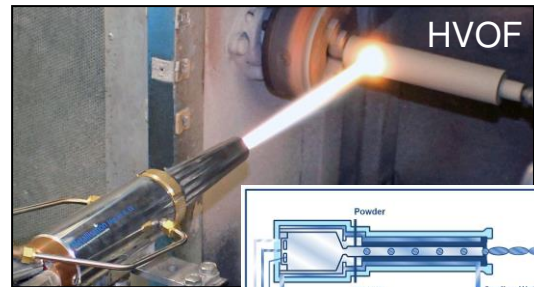
Uses DC electrical power to melt the wires before spraying with compressed air.



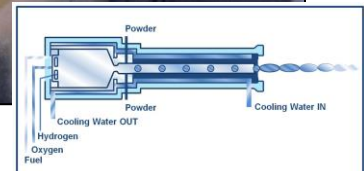
Plasma



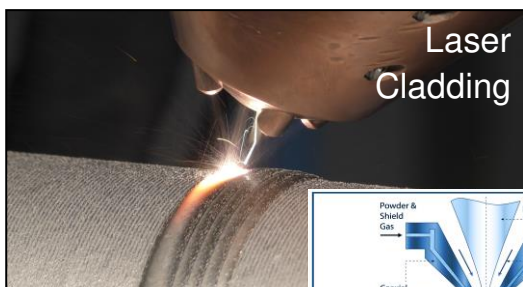
Uses electric arc in an inert gas to create a high temperature plasma that softens the spray powders. The gas stream projects the powder onto the substrate for low oxide coatings.



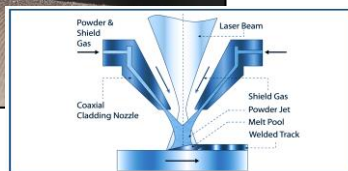
HVOF



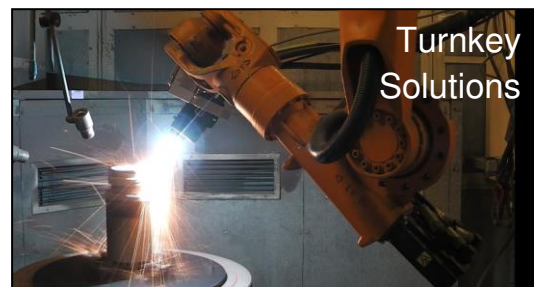
Uses an accelerated oxygen / fuel flame to soften the spray powders and project them onto the substrate with high levels of kinetic energy.



Laser Cladding



A precisely focussed high power laser beam creates a weld pool into which a metallic powder is applied. The powder, which is carried by a stream of inert shielding gas, is blown coaxially through the laser beam.



Turnkey Solutions

Spray booths / rooms, robots, fixturing, turntables, spray lathes and extraction. Special purpose machines / pipe / LPG spraying systems.

Metallisation Flamespray and Arcspray equipment is used to apply '**corrosion protection**' coatings of zinc, aluminium and zinc / aluminium alloys onto steelwork such as bridges, gantries, ships, off-shore platforms, gates / fences and vehicles. Commonly used as an alternative to galvanising.

All four thermal spray processes can be used to apply '**engineering coatings**' to modify the surface properties of an item. Engineering coatings can provide such properties as enhanced wear resistance, thermal barriers, electrical / thermal conductivity, hard-chrome replacement and insulation across a wide range of applications.

Metallisation

thermal spray solutions

Flamespray

Available Models: MK73 / MK61 / MK66E-M / MK66E-PC / MK74 / MK74-PC



Anti Corrosion:

- Structural Steelwork
- Offshore Platforms
- Marine Applications
- Bridges
- Fences / gates / furniture
- Tanks and vessels
- Decorative coatings



Engineering:

- Engineering Coatings
- Reclaiming parts
- Bearing and seal surfaces
- Wear Coatings
- Molybdenum
- Fine coatings with low heat input

Arcspray

Available Models: ARC145P / ARC145(19) / ARC150(19) / ARC340 / ARC528E / ARC528E-ACD / ARC701



Anti Corrosion:

- Structural Steelwork
- Offshore Platforms
- Marine Applications
- Bridges
- Fences / gates / furniture
- Vessels and enclosures
- Capacitor spraying
- ERW tube mills
- Multi-void tubes
- Ductile iron pipes
- Oil and Gas pipes



Engineering:

- Engineering Coatings
- Reclaiming parts
- Bearing and seal surfaces
- Anti spark Coatings
- Paper and print rolls
- Railway tracks
- Construction piles
- Hydraulic cylinders
- Crankshafts

Plasma

Available Models: Met-PCC(PLAS)



Engineering:

- Print rolls / Anilox rolls
- Paper rolls
- Mechanical seals
- Aerospace engine
- Aerospace airframe
- Wire drawing capstans
- Automotive valves
- Base coat to non-stick surfaces such as teflon

HVOF

Available models: Met-PCC(HVOF)



Engineering:

- Hard chrome plating alternative
- CGL mill rolls
- Oil / Gas ball and gate valves
- Paper rolls
- Hydraulic rams
- Aircraft landing gear
- Suspension components
- Hydro-electric turbines
- Automotive valves
- Wire drawing blocks

Laser Cladding

Available Models: MET-CLAD



Engineering:

- Down hole stabilisers (WC/Ni).
- High temp process rolls, hardness & corrosion resistance, valve lips and seats (Cobalt 6)
- Valve balls/seats, process rolls, waste incineration boiler parts, oil refinery process plant (NiCrMo)
- Coal and ore crushing hammers / wear plates / sand valves (WC/Ni)
- Valve balls/seats, process rolls, boiler components, waste incineration boiler parts, hydraulic rods, down hole stabilisers (FeCrB)

Metallisation Ltd's key strength is the quality of service it provides to all clients, both large and small, either directly or via its distributors. The company is happy to discuss the range of applications with customers and evaluate the equipment most suitable for their needs. All systems are simple to use, easy to maintain and come with exceptionally high levels of service, pre and post sale.