

Metal spray equipment & consumables excellence and support since 1922

Since 1922, Metallisation has been the leading developer and manufacturer of Thermal Spray equipment and consumables for Arcspray, Flamespray, Plasma, HVOF, Laser Cladding and Automated Spraying Systems.

Our expertise in surface and application engineering is unrivalled. Our ability to supply the most advanced metal spraying technology, combined with our renowned excellence in customer service, enables us to help our customers find the right thermal spraying solutions to best suit their needs.

Our equipment has been designed for a wide range of uses from universal corrosion protection of steel fabrications to engineering coating applications within the automotive, aerospace, oil / gas and manufacturing industries.

Service is key to our success. Metallisation:
Small Enough to Care, Large Enough to Deliver.

Metallisation

thermal spray solutions



COMPANY INTRODUCTION

Over £1m of spares and £750k of consumables to support your spraying operations with fast courier service when required.

1



EXPERIENCE

Over 95 years in the business with a long standing workforce offering decades of experience. We are an independent business with a strong financial position.

2



IN-HOUSE

All products are designed, assembled and tested in-house in the UK. We are the only UK manufacturer of Metal Spray Equipment (flame, arc, plasma, HVOF and laser cladding).

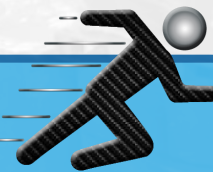
3



SUPPORT

Unrivalled customer support via a dedicated customer support coordinator, internal service engineer and 4 external service engineers.

4



RESPONSIVE

We have 46 employees and 34 world-wide distributors allowing a fast response to sales/service enquiries – usually within 8 working hours.

5



ONLINE

Convenient online shop for direct customers and resellers allowing 24 hour checking of stock availability and order placement.

THE METALLISATION DIFFERENCE

„Mucius Scaevola redivivus“

THE PROCESS



FLAME

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



ARC

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 powder. 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

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



TURNKEY

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

THE ORIGIN OF THE PROCESS

- ✦ Pioneered by Dr M U Schoop of Zurich.
- ✦ Started out by pouring molten metal into a high pressure gas stream (1910).
- ✦ Developed to deposit coatings from solid wires (1915).
- ✦ Introduced in the UK in 1922 (foundation year of Metallisation).

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 as well as laser cladding 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.

SUPPORTING GLOBAL ORGANISATIONS

ONGOING SUPPORT

Following purchase we will continue to support all of your needs with the help of our experienced staff.



1

SERVICE SUPPORT

A full range of reactive and preventative maintenance service options as well as telephone and e-mail support.



2

EQUIPMENT HIRE

Our thermal spray systems are available for short & long term hire periods providing unique benefits for both new and existing customers.



3

TRAINING

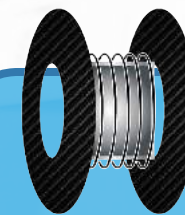
Metallisation offers a full range of training courses to suit the needs of our wide range of customers and we see training as key to the successful operation of our equipment.



4

CONSUMABLES

Metallisation offers a full range of consumable wires and powders, many from stock to support your applications and spraying activities.



5

Our technical team are on hand to help, no matter what you need. Their knowledge is second to none.



Please review our varied training offers and if you need help in choosing the right course for you, we will be pleased to guide you.

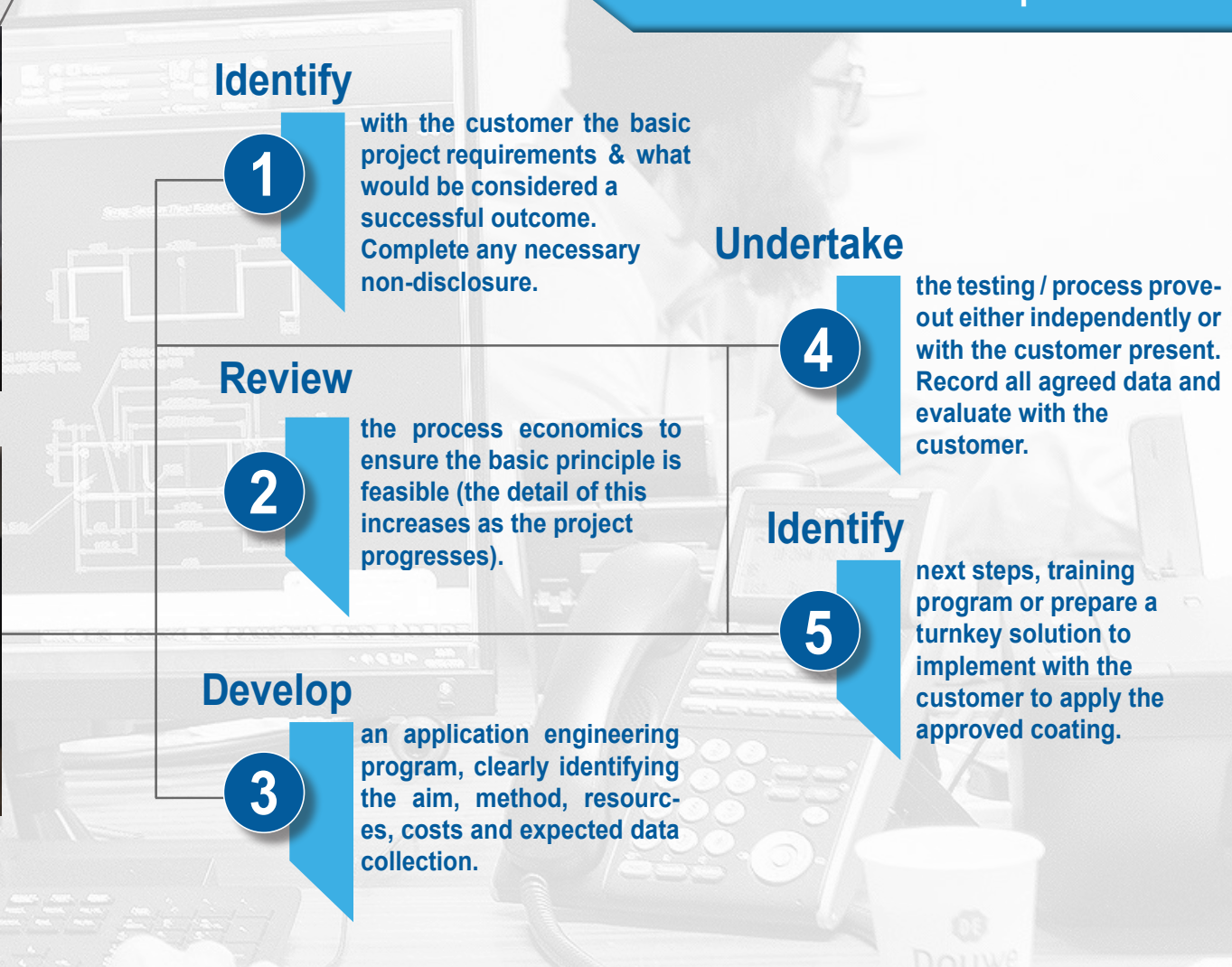
RESEARCH & DEVELOPMENT

In House R&D + World Class Application Engineering = Cutting Edge Turnkey Solutions



Our application engineering and R&D team at Metallisation combine several decades of thermal spray experience. We combine this with 2 robot spray booths, an additional manual spray booth and a full suite of flame, arc, plasma and HVOF spray equipment.

A typical application engineering process is outlined as follows but all are tailored to each customers' specific needs



APPLICATION ENGINEERING