



**The New Factory**



**Shop Floor**



**Metal Spraying**



**Bore Grinding**



**Internal Grinding**



**Location Map**

**Nicol & Andrew (MSPE) Limited is the Specialist Coating Division of the Nicol & Andrew Group – a world leading provider of in-situ engineering services to all industry.**

The Coating Division is located in a new purpose built facility, which was opened in 1999, in Govan, Glasgow.

Nicol & Andrew (MSPE) are Scotland's leading specialists in precision finish metal coating. We offer a wide range of surface treatments for applications which involve aggressive and abrasive environments.

Our customers range from North Sea oilfield operators and other marine operators to food and beverage manufacturers.

We offer the following services:-

**1. High temperature plasma and HVOF spraying of metal to suit the application requirements** – coatings include:

- ⊙ Tungsten/carbide/chrome - the most popular coating - produces a finish which is less porous and more durable than chromium plating
- ⊙ Nickel/chrome/boron, titanium, aluminium and Teflon – examples of coatings available for specific environments

**2. Grinding and polishing of components** – our capacity is:

Horizontal Length	18ft	5.48m	Diameter	3ft 6in	1.07m	Internal (min)
Vertical Height	2ft 11in	0.89m	Diameter	4ft	1.22m	Internal (min)

**3. Full certification of all coatings and finishes**

**4. We also offer**

- ⊙ Spraying and finishing on site using mobile plant where equipment cannot be moved
- ⊙ Nickel, chromium and other electro-plating
- ⊙ A1 Class welding
- ⊙ Component manufacture and fabrication

Our workforce of trained engineers operates within a well documented control system which ensures that it delivers finished work to customers defined requirements.

For further information and if you want to discuss your own requirements please contact our General Manager, Willie Ormsby, at the above address or by telephone on:- **0141 419 9020** (four lines) or by fax on:- **0141 427 9974**

Or visit our Web-site at [www.metal-spraying-services.co.uk](http://www.metal-spraying-services.co.uk)

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## Specialist Coatings For All Industry

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# Thermal Spraying Methods & Materials

## HIGH TEMPERATURE PLASMA SPRAYING:

Ceramic and Cermet (metal/ceramic mix) coatings including:-

- Ceramics, chrome oxide, aluminium oxide
- Titanium oxide
- Metal, chrome, carbide
- Tungsten carbide
- Thermal barrier coatings such as zirconium oxide

## HVOF (HIGH VELOCITY OXYGEN FUEL)

Powders available include:

- Tungsten carbide/cobalt/chrome (86-10-4) (Diatec 1086) \*\*
- Nickel/chrome/boron alloy (Diatec 2060) \*\*  
(or nickel/chrome/boron with tungsten carbide matrix)
- Chrome carbide
- Tungsten carbide (various blends)
- Inconel 625 and 718 \*\*
- Hastelloy, stainless steel, nickel (and almost any commercially available metal)

\*\* Most popular coatings for  
aggressive environments

## SPRAY AND FUSE WELDING PROCESS (Self Fluxing Alloy Powder)

- Colmonoy's 4, 5 and 6 \*\*
- Nickel/chrome/boron with a tungsten carbide matrix

Note: requires heat treatment after application

## ELECTRIC ARC SPRAYING (Twin Wire)

Most alloys including:-

- Stainless steels of various types, carbon steels, Hastelloys and cored wires (various)

Anti-corrosive wires including:-

- Aluminium, zinc, Monel, copper, aluminium bronze and phosphor bronze

## COMBUSTION SPRAYING (Single Wire Plus Powder, Low Velocity Spraying)

Including:-

- Molybdenum, copper, nickel, Monel, zinc, aluminium, brass
- Aluminium bronze (good for anti-spark and protection against salt water corrosion)
- Various stainless steels and nickel alloys

★ We know of and can obtain more than 300 types of metal or ceramic coatings please call John or Wullie Ormsby 0141 419 9020 to discuss your particular needs.



ISO 9001 2000