POETON
EST. 1898

APTICOTE
FROM POETON

APTICOTE 800

THERMAL PLASMA SPRAY

The Apticote 800 Thermal Spraying range is a family of high performance ceramic, cermet and metallic coatings that can be applied to a wide variety of steel, titanium, aluminium and copper alloys, as well as to some non-metallic substrates.

Poeton offer modern thermal spraying equipment, encompassing wire, plasma spraying, electric arc, and high-energy processes, supported by sophisticated computer-controlled five-axis robotic manipulation.

Poeton boast an experienced and highly skilled thermal spraying team, backed by an ability to handle the most intricate and precise masking and tooling.

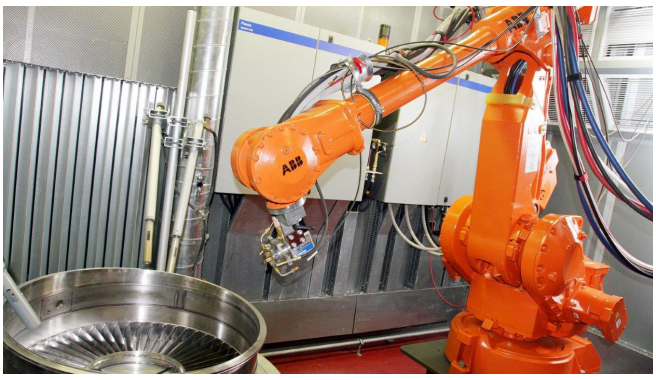
INSPECTION CRITERIA

A fully equipped laboratory, with high quality metallography, image analysis and optical microscopy, provides the expert support that underpins our formal Approvals, including NADCAP, BSI and Industry approvals.

MULTICOAT® ROBOTIC PLASMA SPRAYING SYSTEM

Poeton Industries have installed a TriplexPro™- 210 Robot Plasma Spraying System, offering the ultimate in spraying performance. Its cutting-edge design is unavailable on any other thermal spraying gun and sets new standards of effectiveness, efficiency, economics and environmentally-friendly design.

MultiCoat® can simultaneously control up to four thermal spray processes from a single console. With advanced processing, trending and reporting features, MultiCoat® offers superb performance and value for all types of spray operations, from R&D to high volume production.



Multicoat® Thermal Spray system

CERAMICS	
Alumina, Chromium Oxide, Titania and blends	For wear and abrasion resistance on crankshafts, pumps, piston rods, textile parts, seals and valve seats
Zirconia (Y-Stabilised)	For thermal barriers and insulation on piston caps, grill plates, exhausts, etc.
ABRADABLES	
Aluminium/Graphite Aluminium/Polyester Ni/Cr/Boron Nitride	For controlled bedding-in on components like turbine blades and stators
CERMETS	
Tungsten Carbide/Co	For extreme toughness and wear resistance on compressor blades, flap tracks, lathe centres, capstans and seals
Chrome Carbide/Ni/Cr	For unsurpassed corrosion resistance on rams, lock gates, cranes, ship loading doors, etc.
METALS & ALLOYS	
Molybdenum blend	For low friction and wear resistance on valve bodies, shifter forks, gear cones, piston rods and thrust washers
Copper and Nickel Aluminium Bronze, Mo/Ni/Al, Nickel Aluminium	For reclamation and repair on shafts or worn components, as well as for corrosion resistant surfaces

APPLICATIONS

- Propeller hubs
- Seal rings
- Seal retainers
- Piston rings
- Rotatables
- Compressor casings
- Support rings
- Pump plates
- Heat shields
- Propellant grids
- Exhaust tubes

TYPES OF THERMAL SPRAY

- Plasma spray (single and triple cathode guns)
- HVOF spray (gas and liquid fuel)
- Combustion powder spray
- Combustion wire spray

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