



IRELAND



*IRELAND FACILITY PROVIDES  
FULL SERVICE MAINTENANCE ON  
COMPONENT REPAIRS FOR POWER  
UNITS MANUFACTURED BY OEM's:*

**REPAIRS IN THESE AND OTHER  
GAS TURBINE ENGINE UNITS**

General Electric – MS3001, MS5001, MS6001,  
MS7001, MS9001

Siemens-Westinghouse – W191, W251, W501,  
W701, V94.3

Fiat TG20, TG50

ABB Models 8, 9, 11, 13

SOLAR – Centaur, Mars, Taurus

Rolls-Royce Industrial – Avon, RB211, Olympus

Rolls-Royce Aero OEM Coating –  
BR700, RB211, Tyne

Siemens – SGT600, SGT700, SGT800 Coatings

Siemens manufacturing of Turbine Blades/Vanes

**PRODUCTS**

Hot Section Blades/Buckets

Hot Section Nozzles

**PROCESS CAPABILITIES**

Hot Section Airfoil Repair

Heavy Industrial Turbine

Light Industrial Turbine

Aero-derivative Turbine

Advanced Coating Technologies

Repair Development

Smart machining for OEM and MRO

Advanced modelling and rapid tooling

**SURFACE TREATMENT & INSPECTION**

Vibratory Polish

Grit Blasting

Shot-Peen (Steel & Ceramic)

Blending

Platinum Plating

Fluorescent Dye Penetrant Inspection

Ultrasonic Wall Thickness Inspection

Eddy Current Inspection

X-Ray Inspection

Mass Air Flow Measurement

Waterflow Inspection

CNC Co-Ordinate Measurement Machines

Surface Texture Measurement

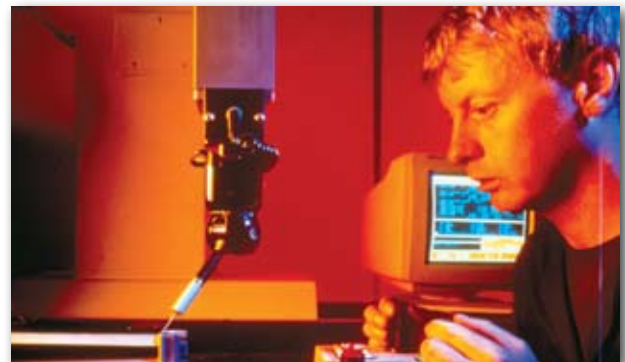
Visual & Dimensional Inspection

Full Laboratory & Metallurgical Inspection Equipment

X-Ray Fluorescence (XRF)

Scanning Electron Microscope with EDX

Energy dispersive X-Ray (EDX) analysis



**CMM MEASUREMENT**

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[www.pas-technologies.com](http://www.pas-technologies.com)

## **CLEANING/WELDING/BRAZE/ MACHINING/HEAT TREAT**

TIG & Micro TIG Welding  
Resistance/Spot Welding  
Controlled Heat Input Welding (CHiP)  
Wide Gap Braze  
LASER Hole Drilling  
Electro Discharge Machining  
Vertical/Horizontal CNC Milling  
CNC Creep Feed Grinding  
Electro Chemical Machining  
Chemical Strip/Clean  
Ultrasonic Cleaning  
Fluoride Ion Cleaning Furnace  
Hot Form Ovens  
Heat Tint Ovens  
Vacuum Brazing Furnaces  
Atmosphere Pit Furnaces  
CVD Furnace

## **COATINGS**

High-Velocity Oxy Fuel (HVOF) Spray  
Low pressure plasma spray (LPPS)  
Pure vacuum chemical vapour deposition (pvCVD)  
Air plasma spray (APS)  
Pack & vapour aluminising  
Platinum aluminising  
SERMALOY™ J

## **CERTIFICATIONS AND QUALITY ASSURANCE**

ISO 9001:2000 + AS9100 Rev B  
Nadcap Coatings  
Thermal Spray  
Diffusion Coating Processes  
Stripping of Coated Material  
Coating Evaluation Laboratory  
Heat Treating



**CONTROLLING LABORATORY**



**VACUUM FURNACE**



**BRAZE LAYUP**

Customer Approved Supplier: Rolls-Royce, Siemens, Hamilton Sundstrand, Pratt & Whitney Canada, Doncasters, and others

Full laboratory and metallurgical inspection equipment

Contact us for a comprehensive portfolio of capabilities, services, fast turnaround times, consistent and repeatable results.