SURFACE TECHNOLOGY: INDUSTRIAL GAS TURBINE

EXTENDED SERVICE LIFE.. NEW AND REPAIR

In the severe environment of gas turbines, components face different types of degradation, like high temperature oxidation and corrosion, thermal fatigue, erosion and wear in the hot section and wet corrosion, droplet erosion and fouling in the cold section

Super alloys have been developed for high temperature applications. However, these alloys may not be able to meet both the high temperature strength requirements and high temperature corrosion resistance simultaneously for longer life... Protective coatings are used to counter these phenomena

Plasma Spray technology is used to deposit abradable coatings typically used for seal closing areas improving overall turbine efficiency and performance.

For protection against Thermal Fatigue, ceramic thermal barrier coatings can be applied to turbine blades, vanes and combustor parts.

MCrAlY sprayed by HVOF have shown a superior resistance to high temperature oxidation.

OUR EXPERIENCE

- RB211
- Avon
- SG100
- TB5000
- GE Frame typ.
- Westinghouse 501

TYPICAL APPLICATIONS

- Combustion Hardware
- Labyrinth Seals
- Rotor Shafts
- Turbine Blades
- Rotor Blades
- Compressor Cases

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