

MEC



ISO 9001:2000

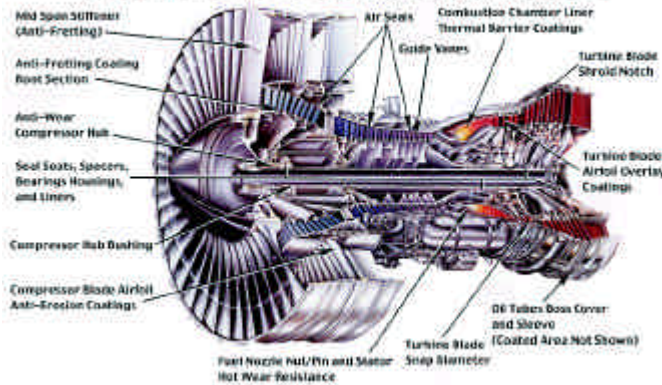
THERMAL SPRAY FACILITIES

AUTOMATIC SYSTEMS for HVOF, PLASMA, FLAME SPRAY, ARC SPRAY & ROD SPRAY

EXCELLENCE IN COATING INNOVATIONS



Gas Turbine Coating Applications



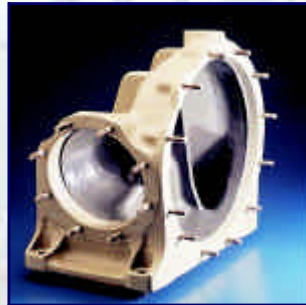
ENGINEERED PROTECTIVE COATING TECHNOLOGIES

Integrating Service, Material and Technology



A SOLUTION PROVIDER

- ▶ 40 years of experience in Surface Engineering.
- ▶ Talented pool of Scientists and Engineers.
- ▶ In-house Coating & Testing facility.
- ▶ Robotic Spray Cells for Plasma & HVOF coating.
- ▶ On site coating facilities.
- ▶ Manufactures Thermal Spray Guns, Control Panel - CEmarked.
- ▶ Manufactures approved Abradable & Bond Coat Powders, Sealers and Rods.
- ▶ Laison with IITs, Universities, Technical Research



TYPICAL APPLICATIONS

- ▶ Jet Engine Blades & Vanes.
- ▶ Flame Holders
- ▶ Flaps
- ▶ Air Seals
- ▶ Shroud Segments
- ▶ Cooling Plates
- ▶ Combustion Chambers and Liners
- ▶ Fan Disks

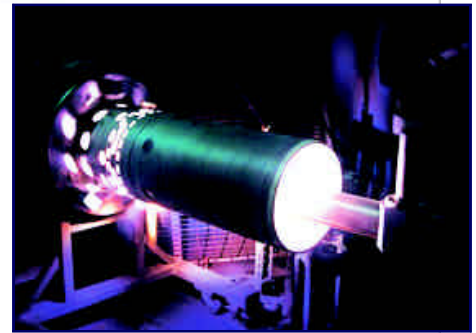
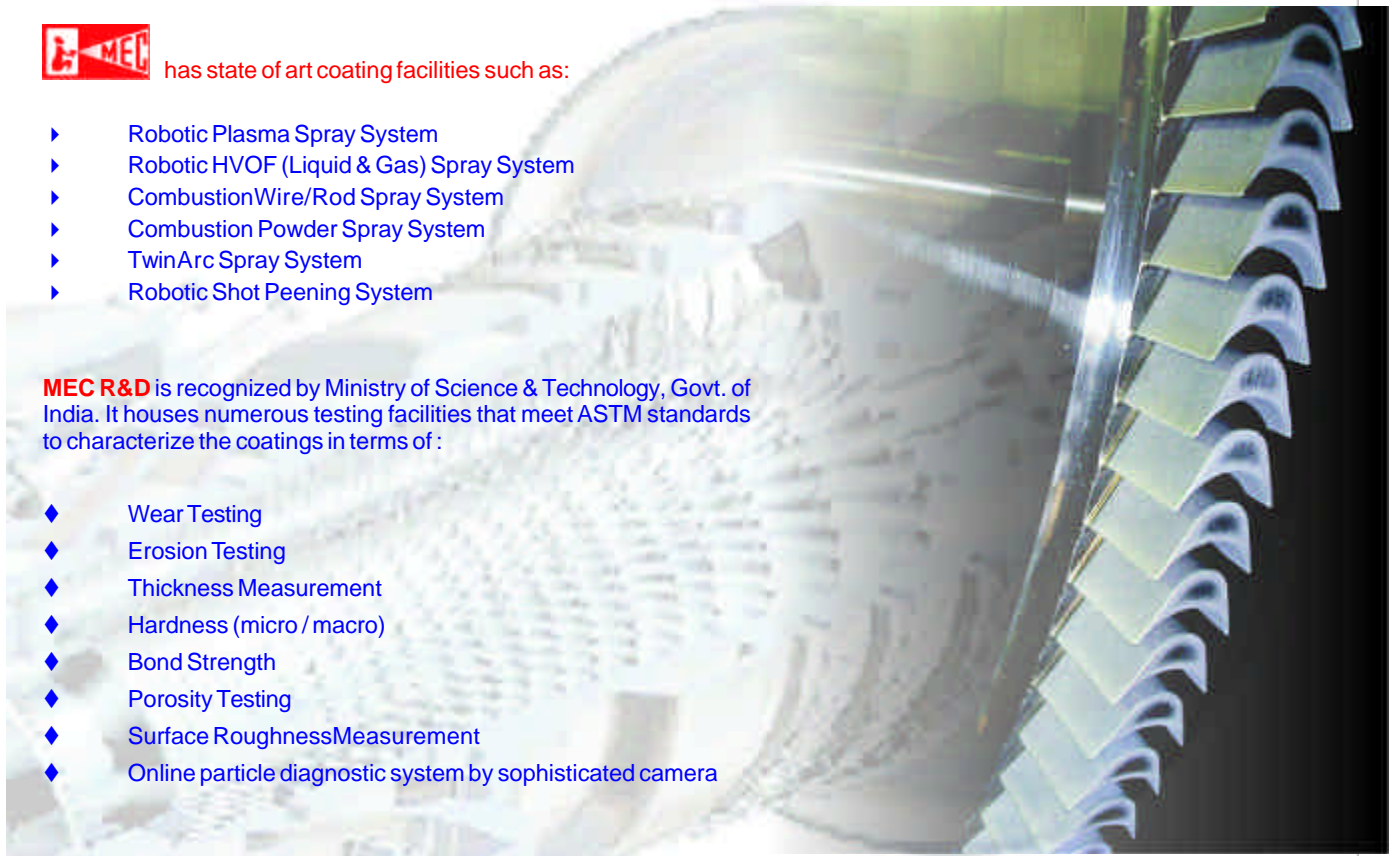


has state of art coating facilities such as:

- ▶ Robotic Plasma Spray System
- ▶ Robotic HVOF (Liquid & Gas) Spray System
- ▶ Combustion Wire/Rod Spray System
- ▶ Combustion Powder Spray System
- ▶ Twin Arc Spray System
- ▶ Robotic Shot Peening System

MEC R&D is recognized by Ministry of Science & Technology, Govt. of India. It houses numerous testing facilities that meet ASTM standards to characterize the coatings in terms of :

- ◆ Wear Testing
- ◆ Erosion Testing
- ◆ Thickness Measurement
- ◆ Hardness (micro / macro)
- ◆ Bond Strength
- ◆ Porosity Testing
- ◆ Surface Roughness Measurement
- ◆ Online particle diagnostic system by sophisticated camera



CERTIFICATES & APPROVALS

MEC is committed to achieve the high quality standards its customers have a right to expect. This is why MEC installed a process-oriented integrated environmental and quality management system that has since become a benchmark for the industry.

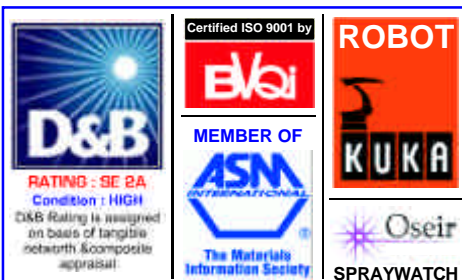
- Quality Management System ISO-9001:2000 certified by BVQI.
- CE approval for Thermal Spray Guns, Control Panels & Powder Feeders.
- Approval for coating on Aero Engine Parts by Director General Civil Aviation (DGCA).
- Product approval by RCMA, CEMILAC (Ministry of Defence) to manufacture special grade of coating powders & rods.
- Industrial in-house R&D facility recognized by Ministry of Science & Technology
- SE-2A rating from D&B (Dun & Bradstreet) signifying High Performance Capability and High Financial Strength.



HVOF COATING Vs HARD CHROME PLATING

Due to strict environmental guidelines and improved mechanical properties in HVOF coatings has replaced Chrome Plating. Some of the components like landing gear, flap or slat tracks etc. are now coated by HVOF. To know more about the techno commercial feasibility of HVOF coating, please call MEC for an expert advice.

Features	HVOF	Hard Chrome
Installation Cost	Low	High
Coating Thickness	Uniform, high	Variable, limited
Chemical Solution Control	None	Critical
Deposition Rate	Very rapid	Very slow
Portability & onsite Capability	Yes	No
Disposal Problem	None	Yes
Mechanical Properties	Improved	Inferior
Part Size Limitation	None except ID <4" (100 mm)	Yes



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