



Thermal Spray Methods used for building up worn-out Rotors and Parts

Different technologies are available to restore the worn – out surfaces of Rotors depending upon severity of the damage. These techniques are:

- Wire Arc spray
- HVOF
- TIG
- Detonation process
- Plasma spray
- Chrome plating.

We can refurbish the Compressor Rotors, Turbine Rotors as per the international standards by using above methods of metal deposition.



Turbine Journal before metal build up.



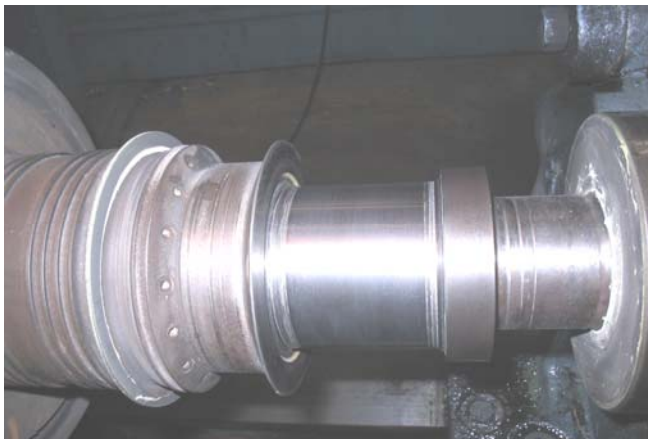
Compressor Journal before metal build up.



Metal spray on Turbine Journal (Wire Arc Spray)



Metal spray on Compressor Journal (Wire Arc Spray)



After metal build-up and machining



After metal build-up and machining



Impeller with Broken vane



Impeller after Repair



Eroded Blade in Received condition



After repair



Gland in Received conditions



Gland after metal build up and machining



Turbine Rotor Received with Annual groove on Gland area (Reduced from $\text{\O} 250 \text{ mm}$ to $\text{\O} 120 \text{ mm}$)



After repair (Restored to $\text{\O} 250 \text{ mm}$)