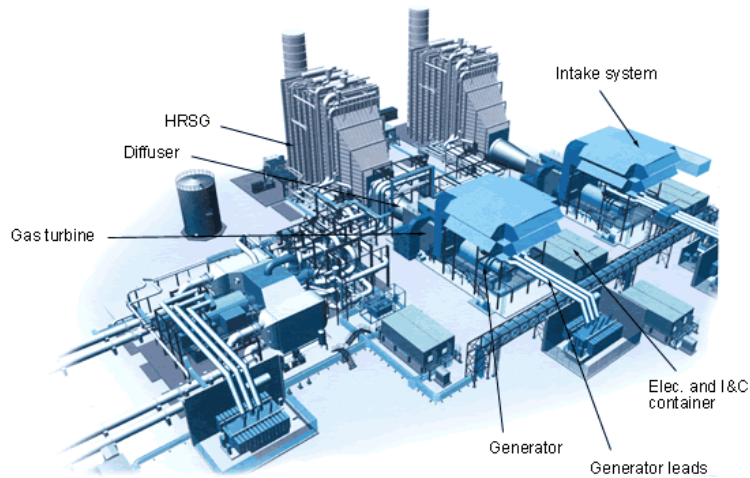


ENGINEERED REPAIRS AND MANUFACTURING TECHNOLOGIES -ERMT

FOSSIL, RENEWABLE, RDF & NUCLEAR ELECTRIC POWER SERVICES

*Utilizing highly advanced cutting edge technologies -Truly independent –Technology neutral.
O & M Agreements, MRO, LTSAs, Exchange Programs, Complete Overhauls, Outage Support, Reverse Engineering,*



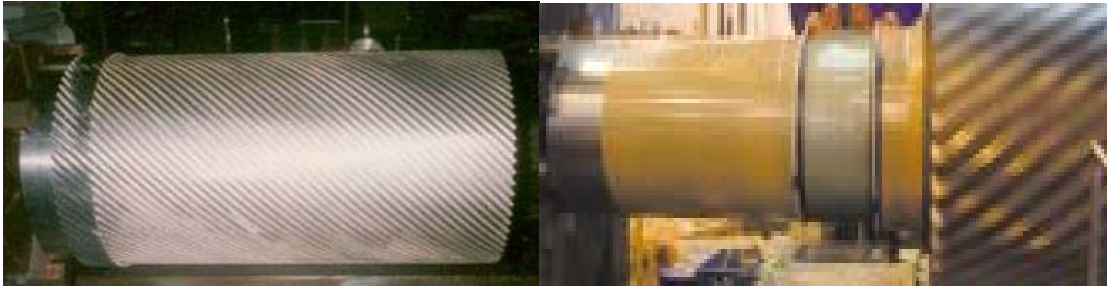
- Cracked castings – 100% effective cold engineered repairs (Engine Blocks, Cyl. Heads, Transmission Housings.....)
- Turbine Shaft couplings
- Turbine Shaft journals, Retaining rings & lands, Buckle Rock, Oversized bearing housings.....
- Pinion Shafts, Quill shafts.....
- Steam Turbine Cracks and Steam cuts.....
- Polymer Engineering repairs
- Scored Valve seats, Valves
- Restoration of conical or tapered areas
- Specialty coatings for FGDs...
- Pump repairs
- Electric motor sections and conductivity enhancements
- Crankshaft dimensions restoration (Crank Pin, Main). Shot peening to specs if required.
- Material Characterization(s)
- Parts modeling, design, reverse engineering with Solidworks, Inventor, CAD/CAM, Finite Element Analysis, CFD, Virtual Casting simulations.....

To mention a few.....

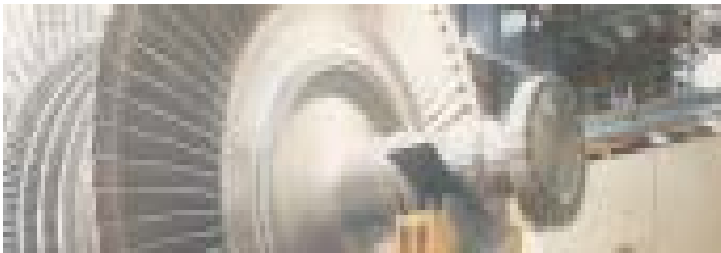
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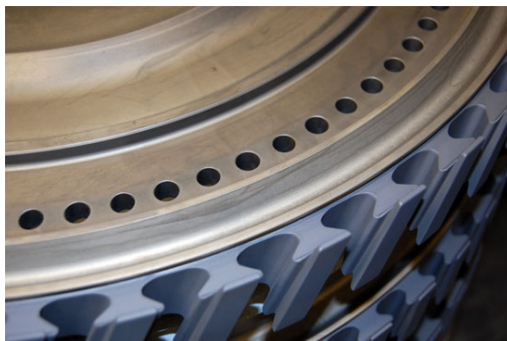
Pinion Shafts restored.



Shaft Couplings restoration



Turbine shaft dimensional restoration

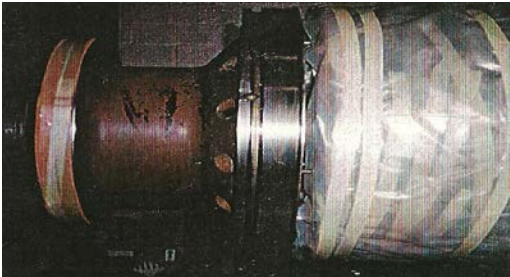
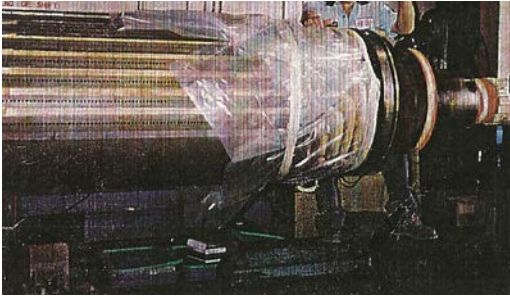


Rotor dimensional restoration, pre-braze wetting

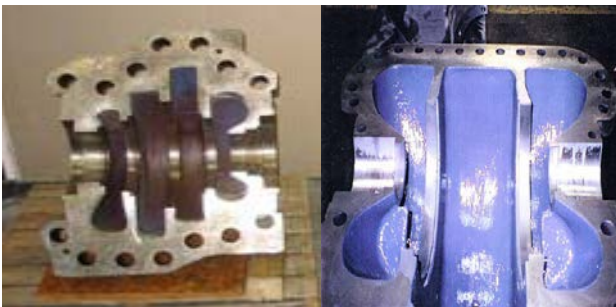
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Generator rotor retaining ring lands dimensioning back to OEM specs at a fraction of replacement costs.



Pumps restored to better than new OEM Specs.

- *Our Engineering and Technology portfolio includes, but is not limited to (always conscious of the best alternative to Haz-Materials):*
- *Powder metallurgy*
- *Laser cladding*
- *Plasma transferred weld*
- *Polymer Engineered repair technologies*
- *ESD deposition (dry, wet)*
- *100% effective cold casting repair technologies achieving greater than 100% joint efficiency*
- *Plating – Microfuse™*
- *HVOF*
- *Other innovative technologies*
- *3D Modeling*
- *CAD/CAM*
- *Reverse Engineering*
- *Finite Element Analysis*
- *Professional Engineers on staff*
- *Metallurgical experts*

Among Others.....

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HX tube sheet and water box repair and special coatings to protect against bi-metallic corrosion



Steam Turbines cracks, steam cuts.....



6 MW HFO Engine Block fully restored after cylinder area catastrophic failure.



Crankshaft Crankpin damaged and repaired afterwards.

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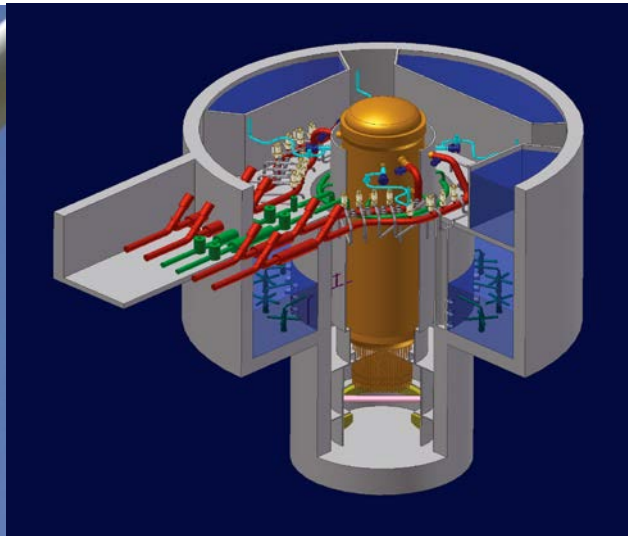
Oversized Bearing housings. Electric Motors



Electrical contact and coatings enhancement for electrical apparatus in sub-stations, power plants, electric motors.....



Wind Power



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