

## ENGINEERED REPAIRS AND MANUFACTURING TECHNOLOGIES -ERMT

### OIL & GAS UP-MID-DOWNSTREAM, PETROCHEMICAL SERVICES

*Utilizing highly advanced cutting edge technologies -Truly independent –Technology neutral.  
O & M Agreements, Long Term Service Agreements (LTSAs), Exchange Programs, MRO, Repair Services, Complete Overhauls,  
Outage Support, Reverse Engineering, Owner's Engineer.....*



- 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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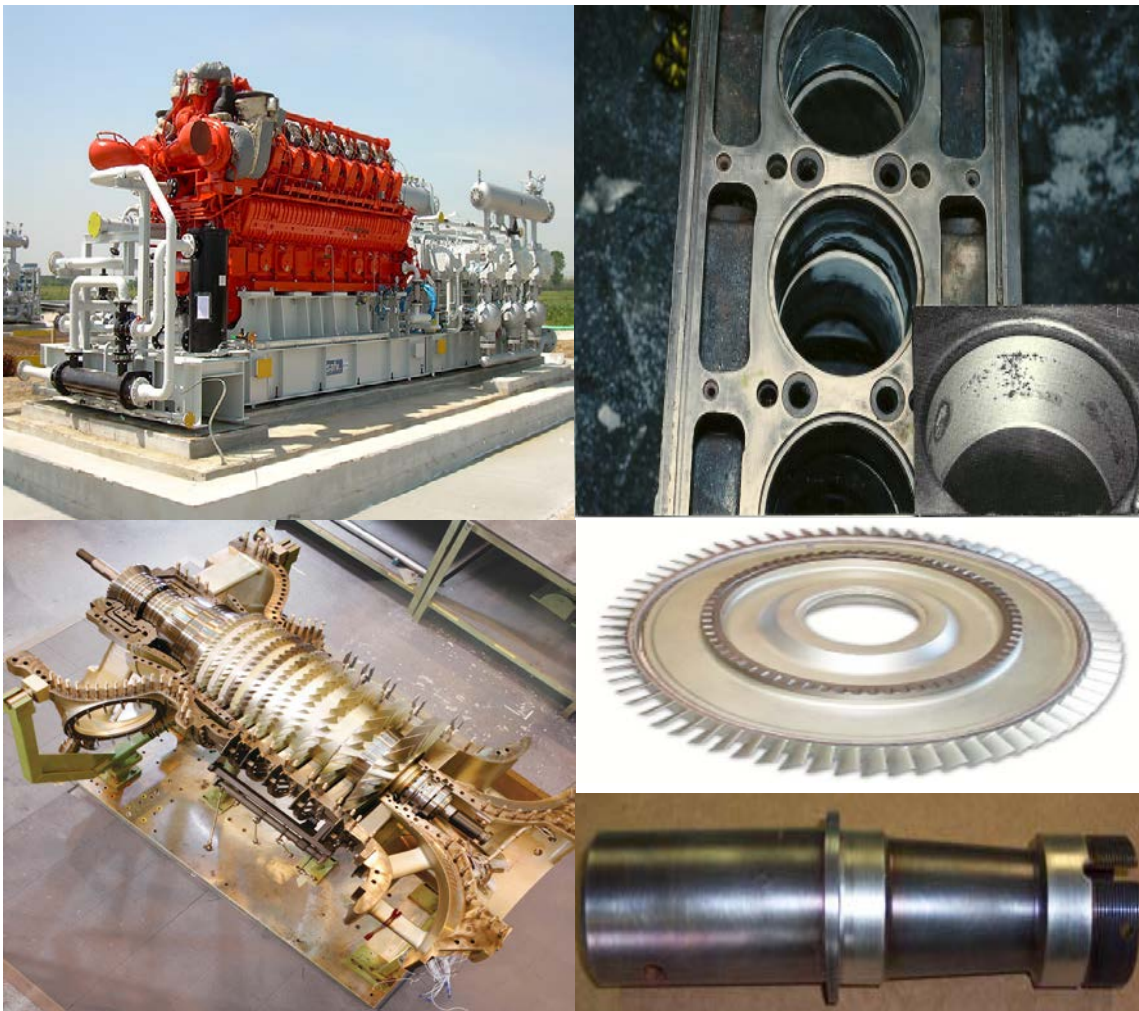
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*Pinion Shafts restored.*

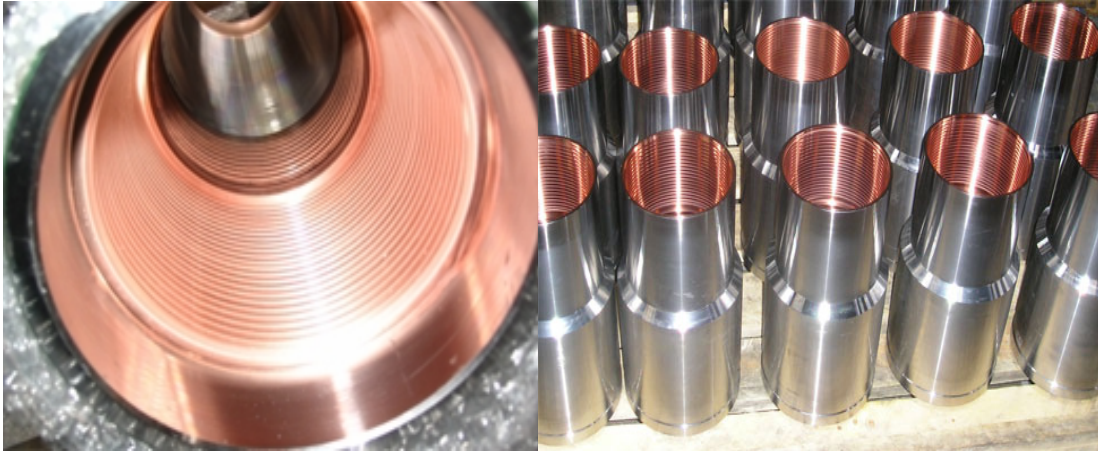


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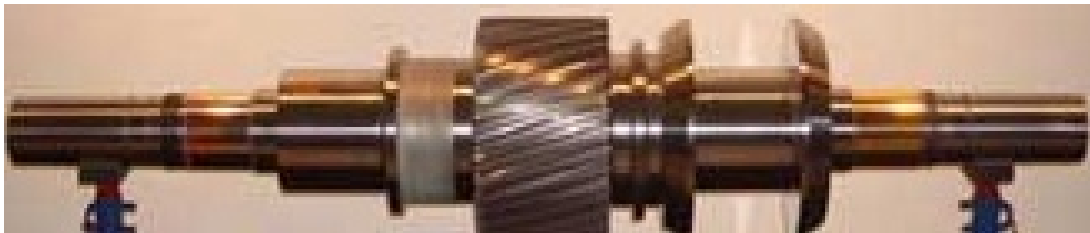
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*Premium pipe threads and copper anti-binding.*

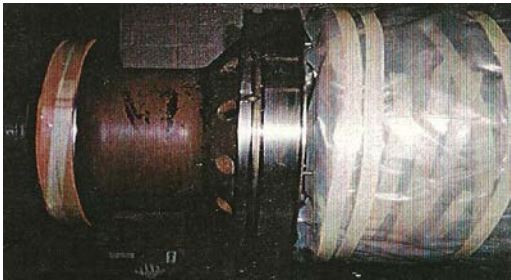
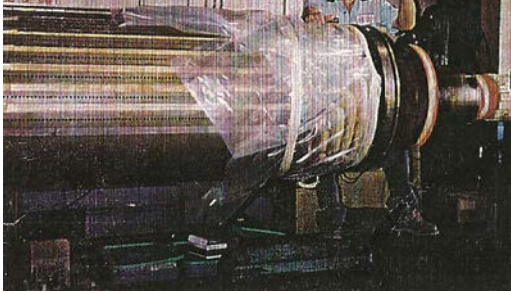


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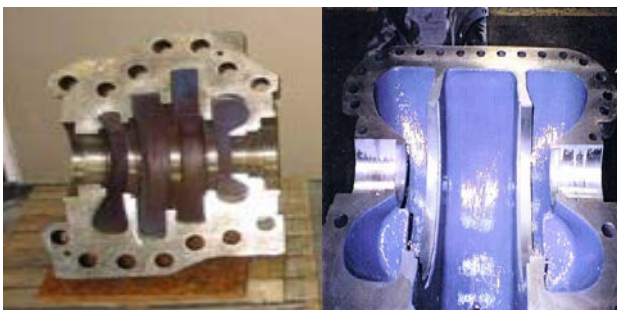
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*Generator rotor retaining ring lands dimensioning back to OEM specs at a fraction of replacement costs.*



*Pumps restored to better than new OEM Specs.*

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- Our Engineering and Technology portfolio includes, but is not limited to (always conscious of the best alternative to Haz-Materials):
- Powder metallurgy
- 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*



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



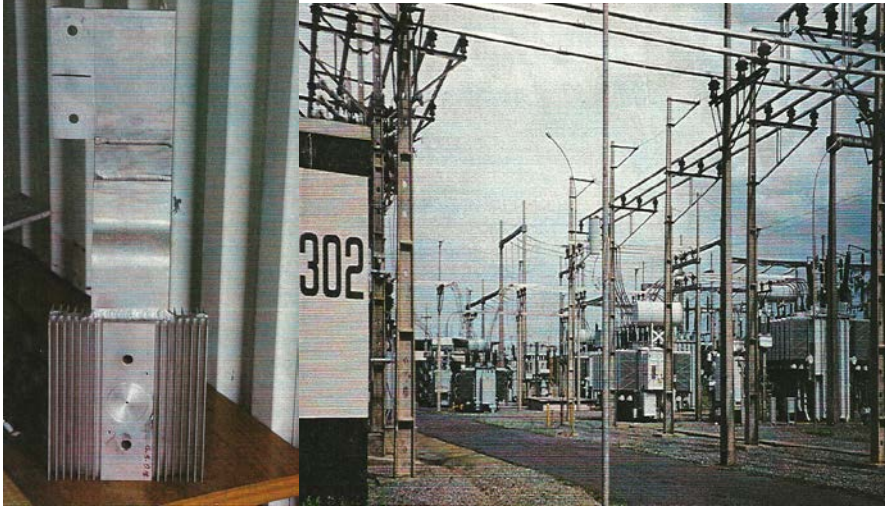
*Oversized Bearing housings. Electric Motors*

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



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