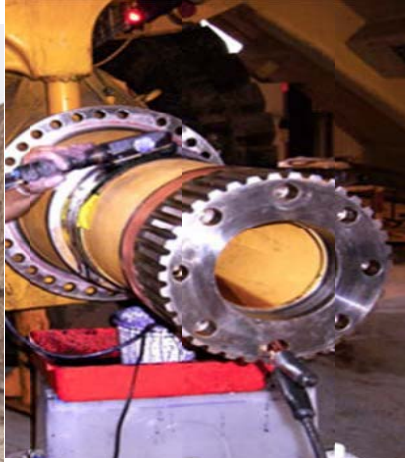


## ENGINEERED REPAIRS AND MANUFACTURING TECHNOLOGIES –ERMT

O & M Agreements, MRO, Exchange Programs, LTSAs, Complete Overhauls, Outage Support, Reverse Engineering.....

### HEAVY EQUIPMENT SERVICES

Utilizing the most advanced cutting edge technologies – Truly independent –Technology neutral



Undersized spindle shafts restored.



- Cracked castings – 100% effective cold engineered repairs (Engine Blocks, Cyl. Heads, Transmission Housings.....)
- Polymer Engineering repairs
- Bushing, Bore – repairs and restoration (oversize, elliptical...including King pin and other pin/bores)
- Scored Hydraulic Rams and Cylinders
- Undersized Shaft specs restoration to original OEM
- Restoration of conical or tapered areas
- Spline Shaft repairs
- 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.....

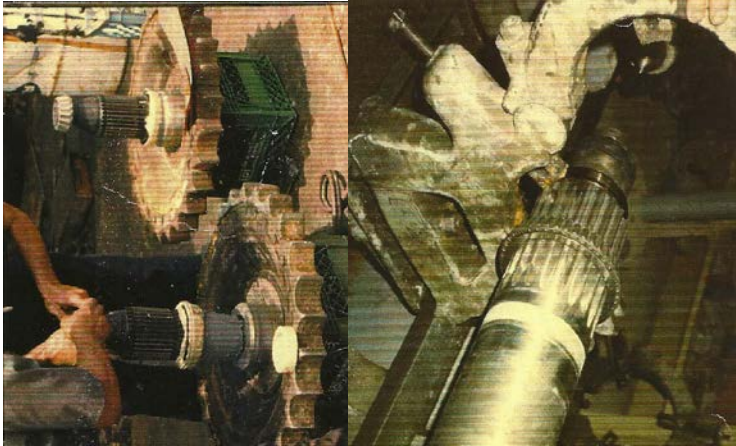
To mention a few.....

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And other strategic locations.

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O & M Agreements, MRO, Exchange Programs, LTSAs, Complete Overhauls, Outage Support, Reverse Engineering.....

### HEAVY EQUIPMENT SERVICES



Dragline (Shovel) oversized bush housings and sprocket drives restored.

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

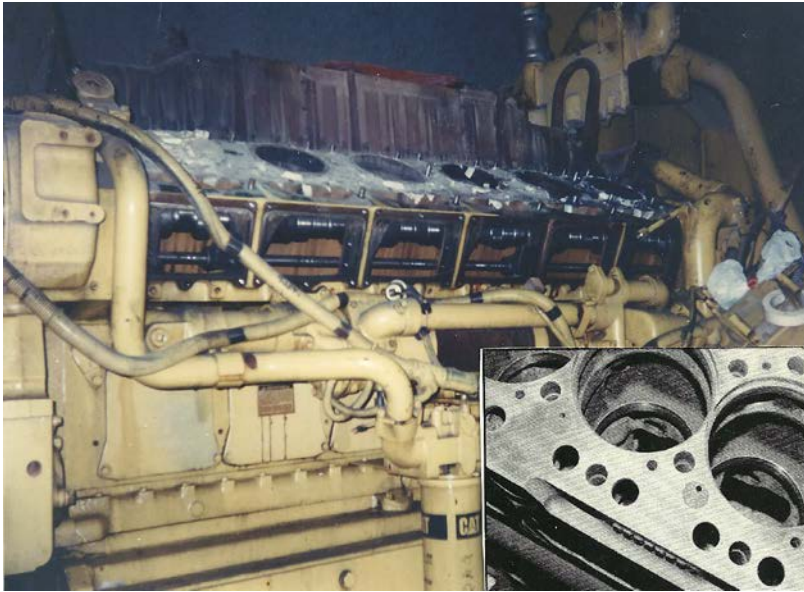
Among Others.....

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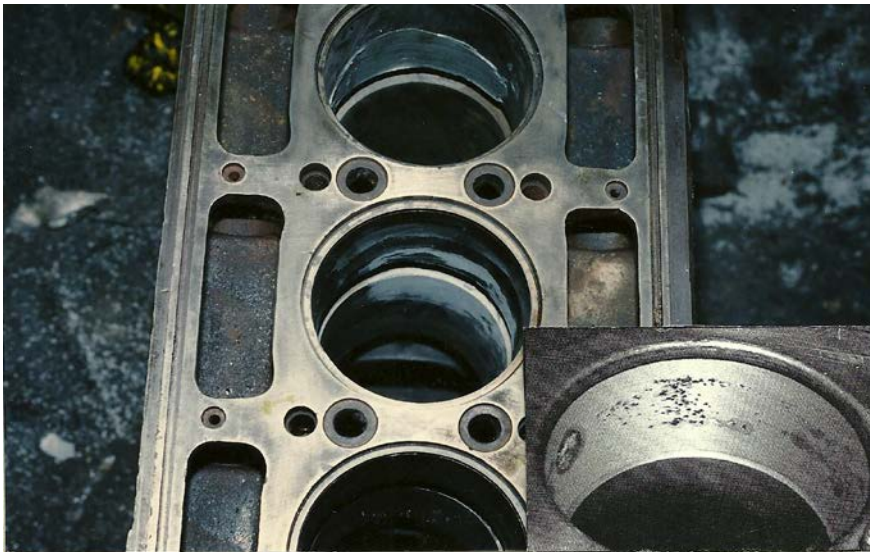
*ENGINEERED REPAIRS AND MANUFACTURING TECHNOLOGIES -ERMT*

*O & M Agreements, MRO, Exchange Programs, LTSAs, Complete Overhauls, Outage Support, Reverse Engineering.....*

*HEAVY EQUIPMENT SERVICES*



*Engine Block (1,200 KW) showing cooling port damages, fully restored.*



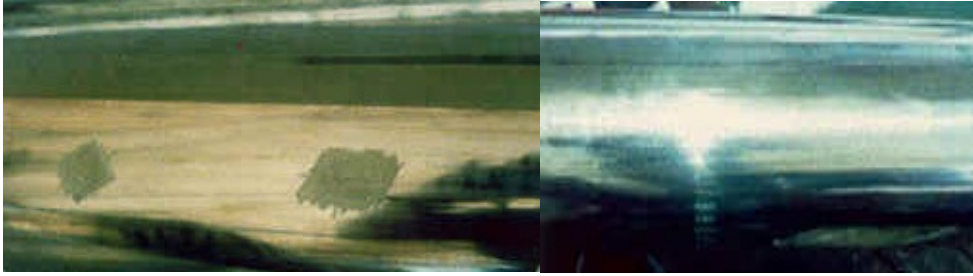
*Engine Block damaged by porosity and restored satisfactorily.*

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### HEAVY EQUIPMENT SERVICES



*Hydraulic Rams – Before and After.*



*Crankshaft Crankpin damaged and repaired afterwards.*



*Turbo Wheels and Housings. Oversized Bearing housings restored to OEM specs, among others...*

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