

ENGINEERED REPAIRS AND MANUFACTURING TECHNOLOGIES –ERMT

MINING EQUIPMENT SERVICES

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

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



Ball Mill Circuits.



Skurry pumps restorations – impellers, casings, abrasion resistance...

- 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.....

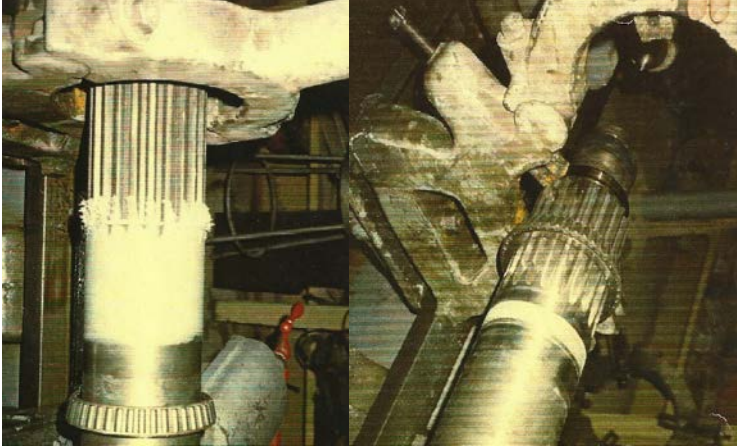
To mention a few.....

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And other strategic locations.

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Undersized spindle shafts restored.



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



Hydraulic systems.

- 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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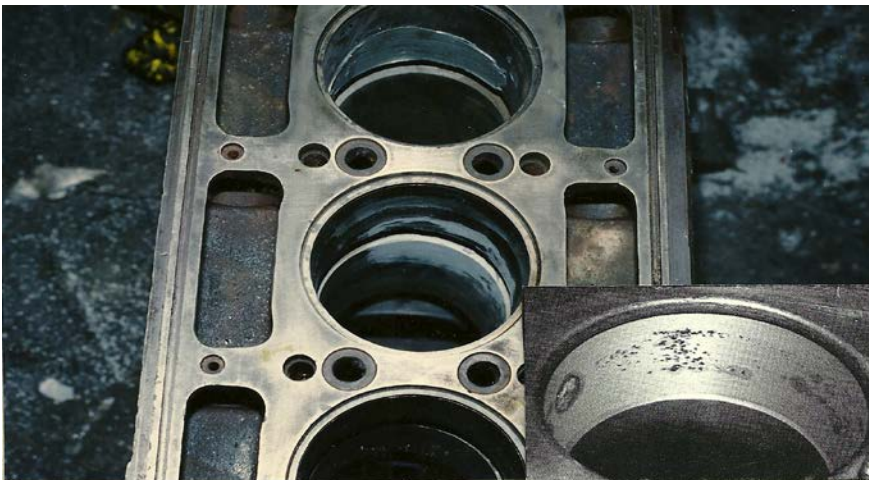
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Engine Block (4,300 KW), fully restored.



Engine Block damaged by porosity and restored satisfactorily.



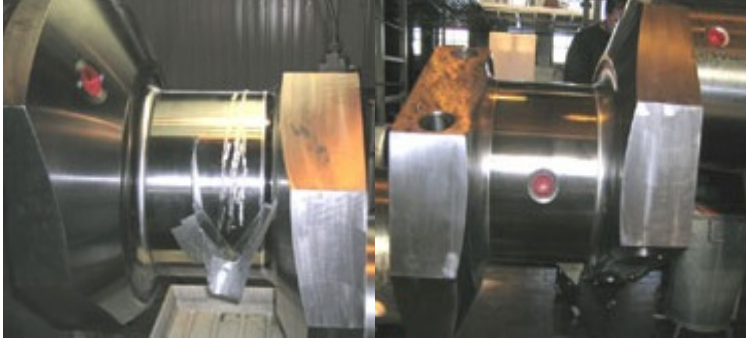
Hydraulic Rams – Before and After.

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Crankshaft Crankpin damaged and repaired afterwards.



Oversized Bearing housings restored to OEM specs, among others...



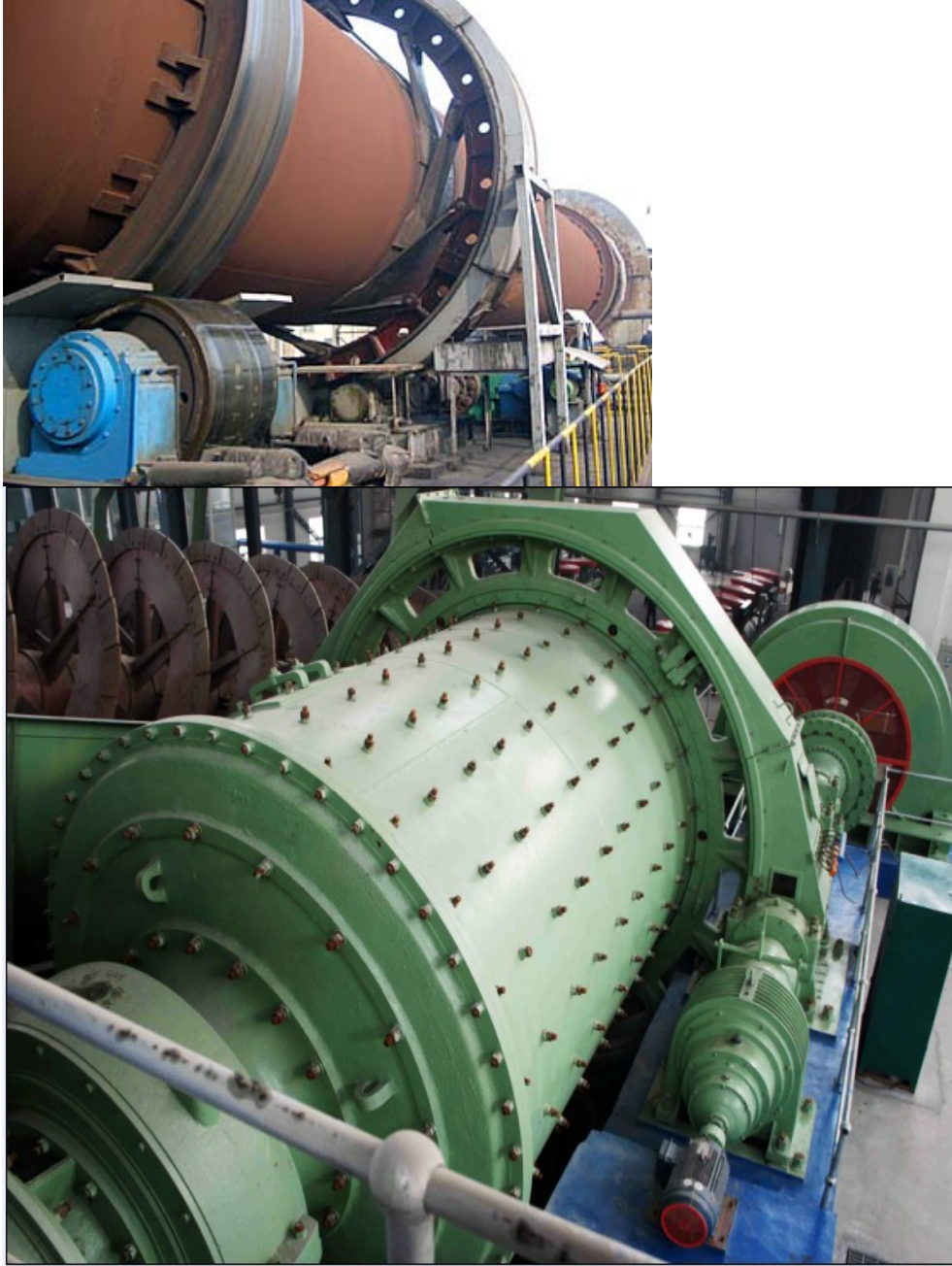
Abrasion enhancing coatings, fabrications...

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