

Metal Surgery Milwaukee, LTD.

Milwaukee, WI 53207

Office (414) 744-8313 Fax (414) 744-8770

E-mail metalsu@execpc.com Web Site: www.metalsurgery.com

Pinion Gear Repair



Pinion Gear Assembly

Gear failed during production. (No spare, EMERGENCY repair)
Disassemble pinion assembly, repair teeth by welding, machine and hand finish teeth; and reassemble.



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After all the cracks were removed, there were not many teeth left. The base material was analyzed and a weld procedure was produced.



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All teeth were welded and post weld heat treatment was performed by procedure.



This gear was then machined on the O.D. diameter and faces.

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This gear was then hand finished using special gauges and templates. Complete inspection showed no defects and tooth location and size almost perfect.



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On-Site assembly and installation by skilled mechanics.



Alignment was checked.

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Tooth engagement was fine tuned and cement kiln was put back into production.