

CAST IRON
REPAIR

In Stitches

"FIRST AID FOR METAL"

ON-SITE MACHINING
SOLUTIONS

www.castironrepair.com
www.portablemachining.com

Metal Locking Service Quarterly Newsletter
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Featured Job – “Thanks to our Blokes Down Under!” Metal Locking Service has become a familiar fixture in Australia. We have recently done work in Perth, Taree, and Spottswood. Our crew has performed crosshead guide repairs and double lube headers on various locomotive engines as well as a generator foot repair. The rail industry is ideal for the transport of goods and materials across the interior of the country which is primarily desert and/or bush. The sight-seeing is incredible. There is so much to look at, from the Great Barrier Reef to the beaches, as well as Sydney and the outback.



The Sydney Opera House



Preparing the area for a masterlock to affix foot on locomotive engine

Weathering the Storm - The economy has really caused MLS to sharpen its skills. We have returned to the basics. Over the past four months, we have focused on internal improvements such as efficiency, cost cutting, and customer service. We made over 300 customer visits in the past two months, and are inviting customers, vendors and business associates to visit our facility. We have also created a twitter account. Follow us at www.twitter.com/MLSMachineShop.

Continue to check us on the web – Metal Locking continues to add information on our websites. www.castironrepair.com has additions on the project page, news and downloadable documents. www.portablemachining.com has had several updates as well. We welcome any feedback on how we can make our websites more of a reference for you.

Cast Iron Repair - The metal locking process has been around for over 70 years. This application has developed from repairing small water pumps to enormous turbine-generating equipment, servicing customers from Africa to Alaska. People are still amazed by the process and by what we are able to repair. Welded cast iron is among the hardest to fix. Our process is known as a “cold repair” because it doesn’t involve any heat.

Why we don’t weld cast iron

- Causes warpage and misalignment and often damages machined surface
- Machining often difficult, sometimes impossible, at fusion area
- Pre-heat and post repair stress relief usually necessary
- Involves fire hazard
- Difficult to weld dissimilar metals
- Introduces stresses and hard spots particularly at fusion area
- Causes brittleness, lowers shock resistance and dampening effect

