



Sluice Gates, Audley End

These sluice gates were found in a very distressed condition with seized barrier sections, broken gearing, main-shaft seizure and severely restricted waterway relief. We repaired the existing structure and where necessary, produced new components to complete the restoration.



Tower Bridge, London

Having stood for over a century, some of Tower Bridge's cast-iron components are showing signs of decay. We were asked by London City Council to restore the balustrades and lamp stands that illuminate the bridges northern approach.



Traction Engine Cylinder Block

A poor arc weld repair. The heat of the welding has caused hardened areas and several horizontal cracks leading from the weld deposit. This poor weld has exacerbated the repair process. A virgin fracture would have been much simpler to gas fusion weld.



Jaguar Engine Block

Jaguar 3.8 Litre cylinder block repair with original lettering restored. Our fully guaranteed work is pressure tested and returned to you ready for painting. We also repair aluminium, bronze, malleable iron and alloy components.

Introduction

Established in 1946, Cast Iron Welding Services has a wealth of experience in the weld repair of Flake (Grey Iron), Spheroidal Graphite (SG) and Ni-Resist materials.

We repair:

- Mechanical damage
- Wear damage
- Fractures
- Corroded components
- Eroded components
- Machine shop errors

Workshop facilities

Cast Iron Welding Services offer extensive, fully equipped workshop facilities staffed by experienced, time-served engineers.

- Bespoke welding capability
- Fully equipped machine shop
- Component testing
- On-site repairs undertaken
- ISO 9001 Accreditation



A repaired casting positioned on a vertical borer bed for machining.



This casting will be modified to the customers requirements.

Gas fusion welding creates a homogeneous stress-free weld repair with improved metallurgical and machining properties compared to those of the parent metal.

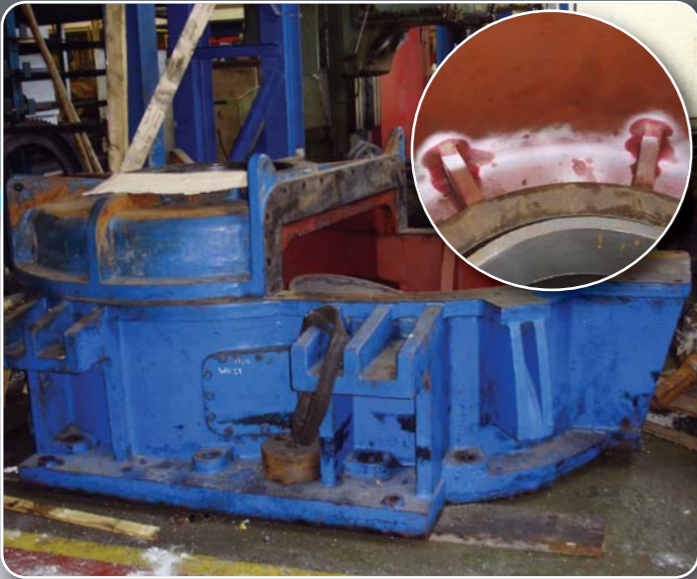
On-site press repair



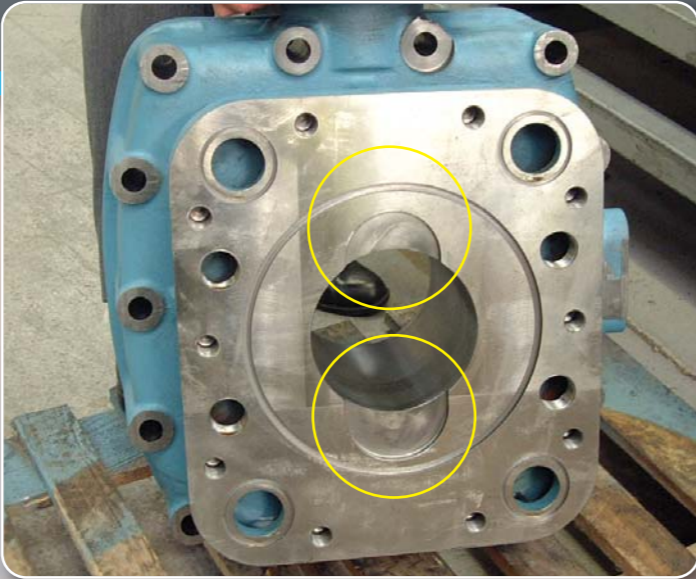
Large 2,700 Tonne Steel Press

This press used by the motor industry was found to be cracked for the second time in two years. Down-time is expensive so it was decided to use Cast Iron Welding Services special on-site welding process. We repaired the fracture in record time and gave a two year guarantee.

Industrial Repairs



Gearbox with internal cracked webs.



This component sustained a false cut which was built up with our special arc welding procedure.



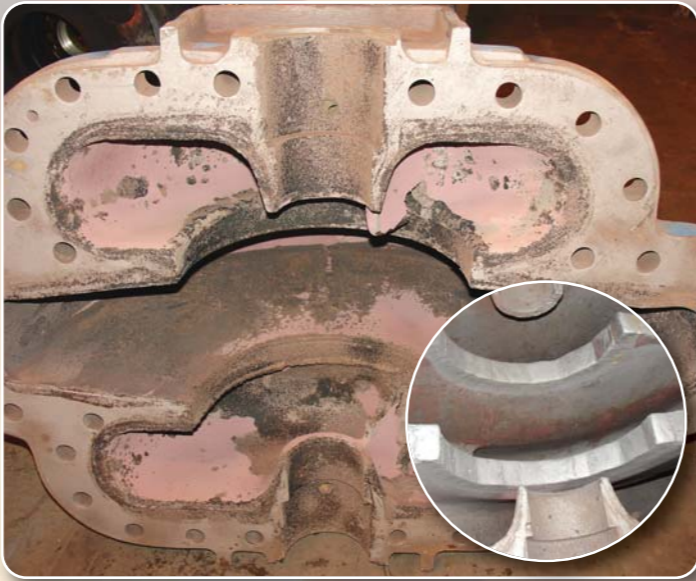
A valve body with eroded sections on the internals which will be built up and machined to standard size.



Military vehicle wheel support casting with worn boss. This was rebuilt and machined back to standard specification.



This component has a cracked flange. Once repaired the gas fusion weld will be virtually invisible.



Pump casting with eroded bearing yokes. Surfaces rebuilt with fusion weld ready for machining back to standard.



These eroded valve seat pockets will be gas fusion welded and will be machined to accept new valve seats.



In-house machining of a welded cylinder head.



Ships chain winch with the locating dogs worn away, have been built up and ground to fit the locating dogs.



Machine bed with a broken lug. This will be gas fusion welded back into place.



This cracked cylinder has been prepared for gas fusion welding.



The finished repair having been crack and pressure tested.