

## Veteran, vintage and classic motor vehicle casting repairs



Jaguar 3.8 Litre block with water jacket corrosion damage.



The damaged area was ground out, cleaned up and gas-fusion welded with new metal. The repair was blended in to the original contours and the Jaguar logo rebuilt.



This veteran cylinder/head casting had suffered broken flanges. Both flanges was rebuilt with gas-fusion welding and machined back to standard specification.



We repair corrosion, erosion, excessive wear and mechanical damage by fusion welding or metal stitching on: Cast Iron - Aluminium - Bronze - Malleable Iron - Alloys - Cylinder Blocks - Cylinder Heads - Manifolds - Gear Boxes - Axles - Structural Castings

**2** Our vintage and classic vehicle repairs carry a **year warranty**

### Collection and delivery

We have many years experience in ensuring that your valuable castings are collected and/or delivered safely and securely, UK or world-wide. If you cannot arrange your own carriage please call us to discuss your requirements.



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For the restoration of cast iron components for steam engines and vintage vehicles

**E**stablished in 1946, Cast Iron Welding Services have a wealth of experience in the gas fusion weld repair of cast iron components. Typical problems dealt with are mechanical damage, fractures, erosion and cracks.

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

For more information on our process see our website: [www.castironwelding.co.uk](http://www.castironwelding.co.uk)

Components are dismantled, cleaned, crack tested and hydraulically tested to 10 bar. Critical dimensions are recorded and a detailed inspection report together with a fixed price quotation is submitted to the customer for approval. Repair is cost effective when compared to that of re-casting a component.

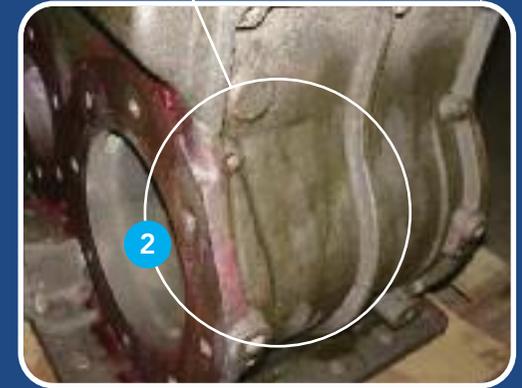
## A selection of our steam loco and traction engine casting repairs



This double chimney stack casting was broken and had been poorly repaired. We replaced the missing sections of the casting, blending the new metal into the original and gas fusion welded the cracks. The stack is now serviceable again.



This traction engine wheel has suffered extensive cracking with large sections missing. The internal wrought iron supports were checked and re-welded into place using the gas-fusion process. Patterns were made for casting new sections from material of the same chemical analysis and welded into position.



- 1** The heat from a poor arc-weld repair on this cylinder block 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.
- 2** The hole adjacent to the repair on the bolting face had to be gas fusion welded and drilled. Picture 2 shows finished repair ready for fitting after testing.

**2** Our steam and traction repairs carry a **year warranty**