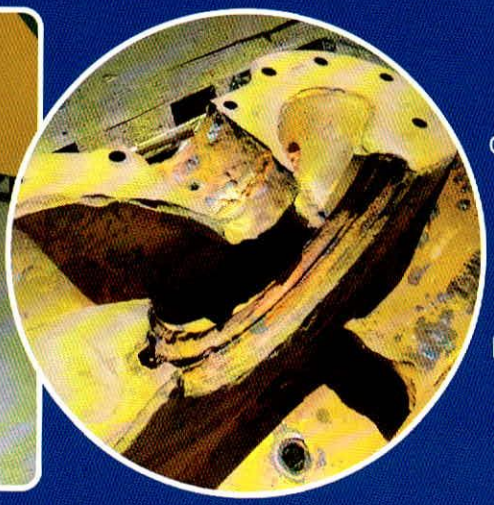
# Cast Iron
## Welding Services Ltd

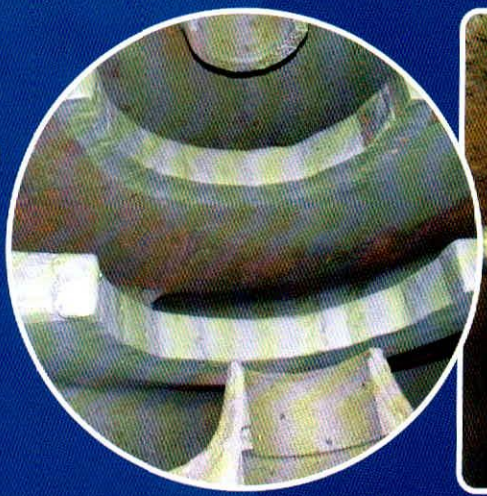
# Cast Iron Repairs by Gas Fusion Welding

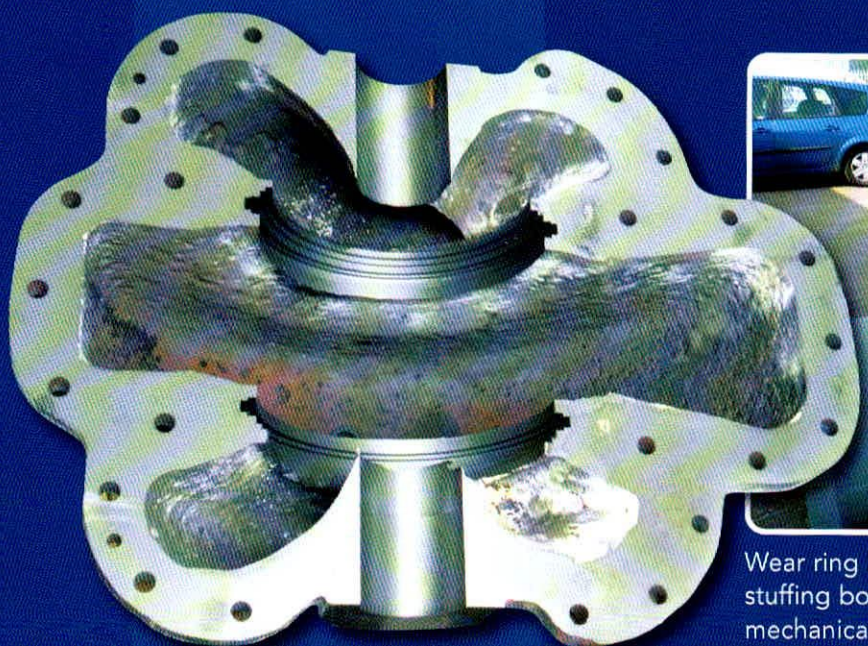
**FRACTURES • CORROSION • EROSION**



One of seven high-lift seawater pump housings with extensive internal erosion to both wear ring and stuffing box locations.

Wear ring and stuffing box locations rebuilt by gas fusion welding utilising material identical to the parent metal.





Wear ring location machined to original profile, stuffing box area machined to accommodate mechanical seal upgrade.

## Dry Dock Pump Housing

Having received this obsolete convoluted pump housing the first objective is to determine the extent of the crack by utilising both dye penetrant and magnetic particle inspection techniques.

Due to the age of the component and the environment in to which it was to operate it was decided to further enhance the repair by the addition of strengthening ribs to the outer of the discharge channel.

This butterfly valve had extensive erosion around its sealing areas. These were gas fusion welded ready for machining back to its original profile.

Gearbox with cracked internal webs which have been restored.

The component is then prepared for welding by removed the crack in it s entirety and to then establish a firm base of sound parent metal upon which to commence the welding process.

## Not only - but also

Valve bodies, broken flanges, impellers, cylinder and compressor heads, gearbox casings, the list is endless!

The blades of this impeller have been built up with gas fusion weld, then machined back to the original profile.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