

## Laser Cladding for Cast Iron Repair

Laser cladding offers a very high quality process for repairing “difficult to weld” base materials, with minimal impact on the mechanical properties of the base material. Laser cladding is a low heat input process, this ensures minimal distortion and minimal heat affected zones.

### Typical applications include:

- Cast iron piston ring grooves
- Gearbox Castings
- Machine Tools

### Typical Cladding Properties:

- Fully Dense coating
- Minimal to zero distortion
- Can be machined to any surface finish
- Can be feathered to allow repair without pre machining



Laser Cladding to repair a cast iron machine table

### Process Considerations:

- The Thickness of the laser clad weld can be as thin as 0.4 mm up to multiple millimetres.
- The part must be clean and grease free
- The area to be repaired must have a reasonably flat surface finish.



Laser Cladding can be accurately applied to repair localised areas.



The Laser clad coating can be machined or ground back to an excellent finish.