LASER CLADDING & HARDENING

KIMI S.A.
TOTAL QUALITY SERVICE

By far the best available and the most advanced technology for the restoration of worn components offering great advantages:

- **High strength metallurgical bond.**
- **No distortions.**
- **Improved life time of component.**
- **Low dilution between track and substrate (unlike other welding processes).**
- **High cooling rate => fine microstructure.**
- **Fast processing times.**
- **Great variety of materials processed.**
- **Built part is free of crack and porosity.**

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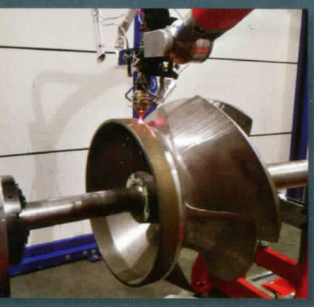
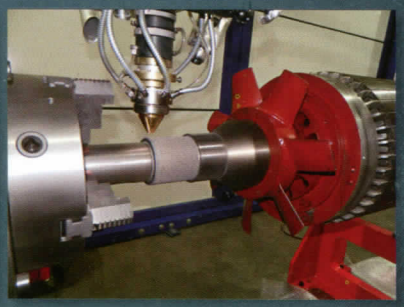
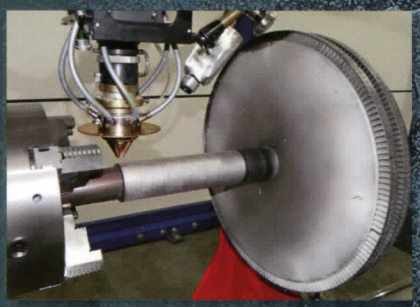
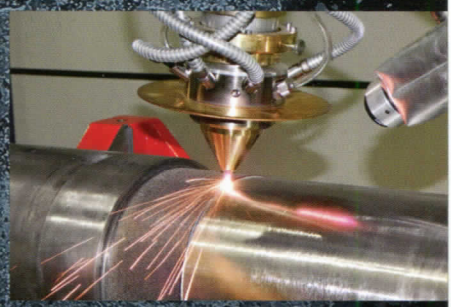
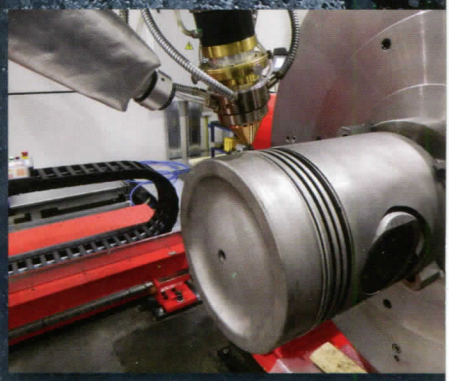
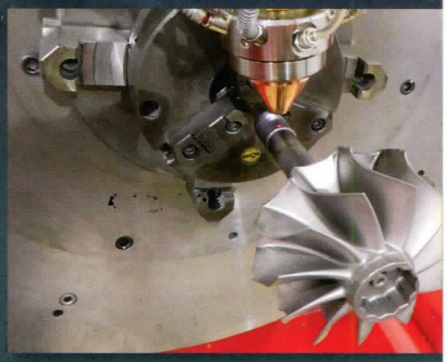





Laser cladding & hardening *is a technology used to restore the service life of various critical components used in the shipping industry, the energy industry, the heavy industry, refineries etc, such as:*

- Steam turbines (rotor journals, sealing strips, blades, nozzles, casings etc)
- Turbochargers rotors (compressor impellers, blades, nozzle rings, rotor journals etc)
- Rotating machinery
- Compressor machinery
- 4-stroke pistons (auxiliary engines)
- Main or auxiliary engine components (Crankshafts, camshafts)
- Gears
- Pump components
- Hydraulic mechanisms
- Various shafts, tail shafts and rudder stocks
- Propellers
- Various others





Common Powders Used.

- Steel based powders.
- Copper based powders.
- Nickel based powders.
- Cobalt based powders.
- Titanium based powders.
- Various carbides.

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