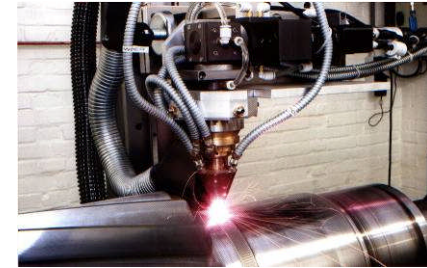


Objective

Commercialization of a new clad controller developed in the research project “Application of impact resistant layers on low alloyed and mild steel by laser surface modification” by establishing a new company.

This has resulted in a camera based feedback control system, which adjusts the laser power according to changes of the melt pool dimensions. A uniform bonding between substrate and layer, with minimal heat input and consequent distortion, can as such be realized.

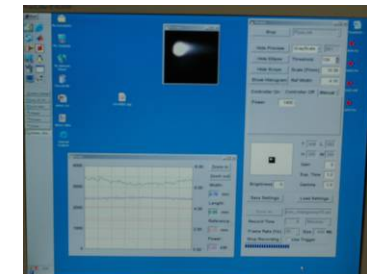
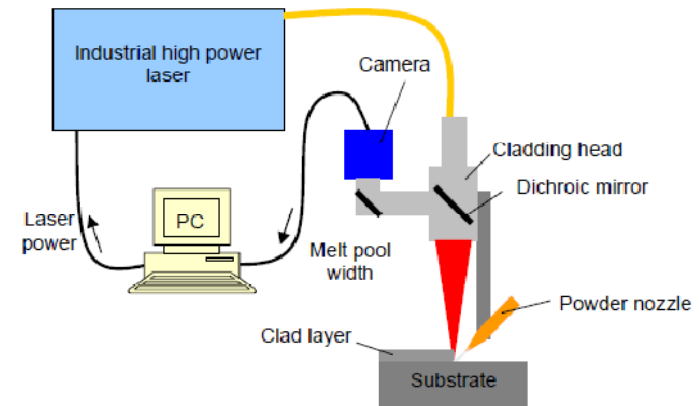


Research topics

- Transfer of knowledge, technology and hands on experience to enable implementation of the clad controller in a commercial product.

Industrial benefits

- Marketing support and on-site technical support
- Proven feasibility of clad controller equipment
- Expected sales of about 5 systems per year (turnover about 100 KEuro p/a)
- Service towards cladding companies implementing this system will gain:
 - Full control of clad process and increased product quality
 - Extended application field of the clad process
 - Increased employability of operators due to automated optimization of process settings



Commercialization of clad controller – M2i, Demcon Advanced Products.