

TECHNOGENIAGROUP

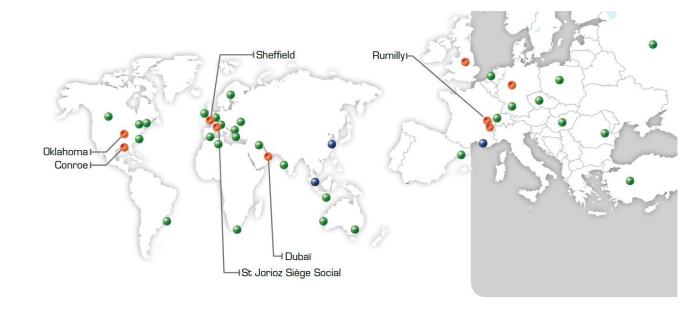
THE LEADER IN HARDFACING

HIGH PERFORMANCE | ANTI-WEAR SOLUTIONS | ANTI-CORROSION |



FRENCH KNOW-HOW, PRESENCE ON ALL CONTINENTS





Technogenia is a French family owned company specialized in hardfacing solutions based on tungsten carbide welding overlays, created in 1979 by Guy Maybon.

Technogenia contributes to the reduction of maintenance costs and production stops by increasing the lifetime of many industrial components worldwide. We manufacture welding consumable products and we provide a full range of services from manual hardfacing, laser cladding to the complete supply of wear parts.



WIDE RANGE OF SERVICES AND PRODUCTS

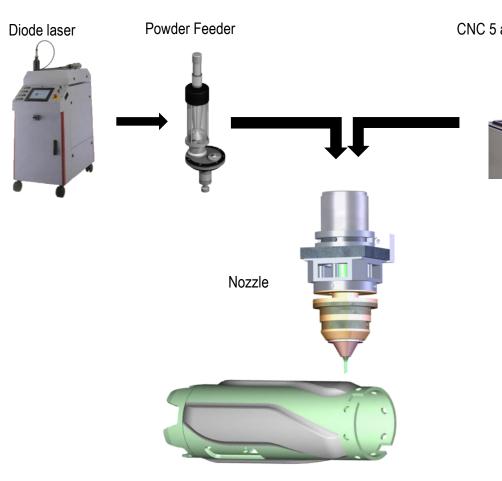




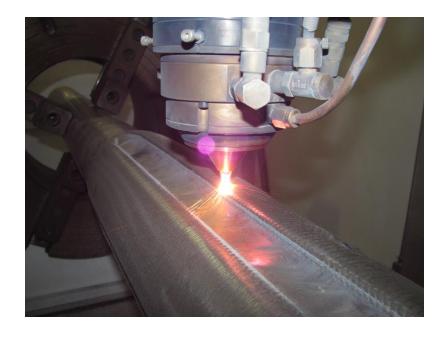




LASER CLADDING LASERCARB® PROCESS









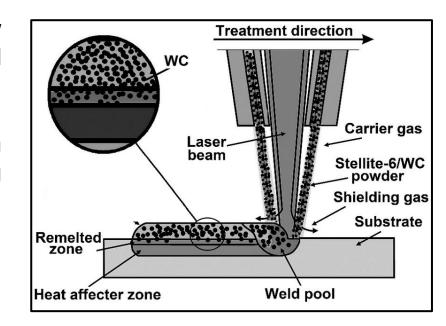
LASER CLADDING LASERCARB® PRINCIPLE

Laser cladding or DLD (Direct Laser Deposition) consists in focusing the energy of a laser beam to melt a powder on the surface of the part.

Laser cladding is today at the top of hardfacing and cladding solutions thanks to a perfect welding on the substrate, surpassing any other alternative technology.

The combination of a laser with a CNC means easy welding overlays on complex shapes with a high level of automation and repeatability.

Our know-how integrates Direct Energy Deposition capacities typical of additive manufacturing technologies.





LASER CLADDING LASERCARB® BENEFITS

- Welded overlay: Metallurgical bond, perfect welding on the substrate.
- Defect free deposit: No porosity or cracks.
- Very low dilution.
- Minimal Heat Affected Zone.
- Extremely limited deformations.
- Precise, reproducible and fully automated process.
- Wide range of powders (WC, Co, Ni, Fe based)
- Deposit thickness from 0.5 mm to 3 mm

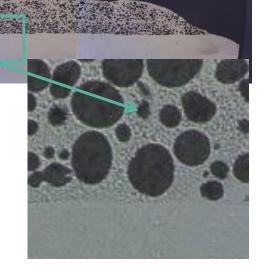
Hardfacing

Base material

BASE MATERIALS

- All weldable steels
- Most stainless steels
- Non magnetic steels

- Titanium
- Some types of weldable cast irons
- Tool steels





LASER CLADDING LASERCARB® PHOTOS

















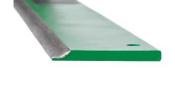
MAIN FIELDS OF ACTIVITY





















MAIN FIELDS OF ACTIVITY





















THANK YOU FOR YOUR ATTENTION



www.technogenia-group.com