

# COATING CENTER TECHNOLOGIES FOR STRONGEST DEMANDS

GTV combines Thermal Spraying and Laser Cladding



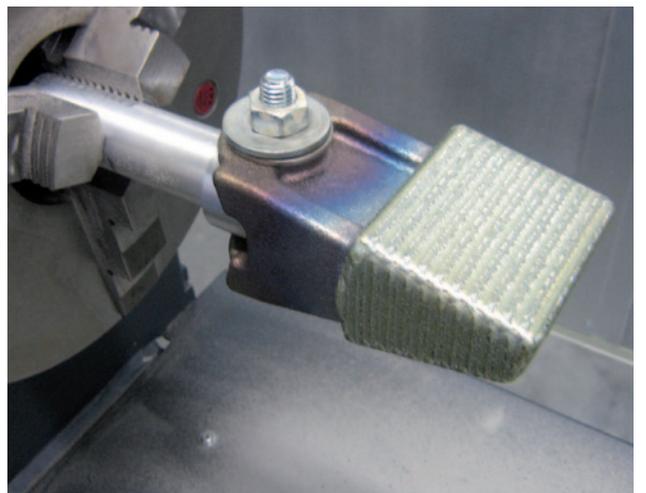
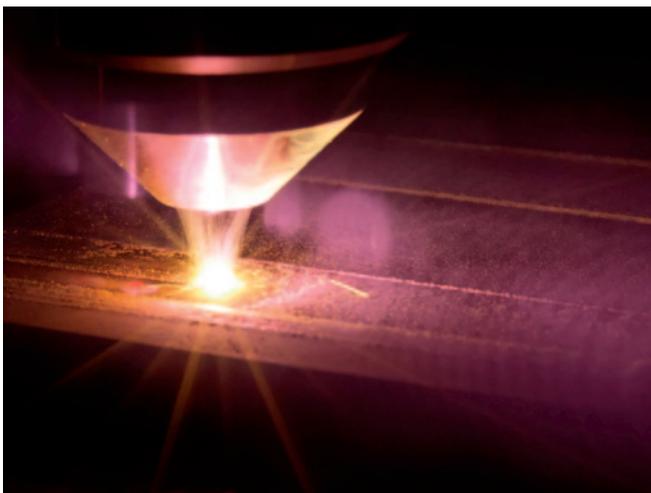
# GTV COMBINES THERMAL SPRAYING AND LASER CLADDING

Laser Cladding offers the opportunity to build up functional coatings or repair metallic components. High precision and reproducibility of processing conditions permit defined deposition of material. This results in reduced necessity for time demanding and costly masking of surface areas that must not be coated. Also, near net shape manufacturing minimizes required machining in order to achieve a desired component contour and surface quality.

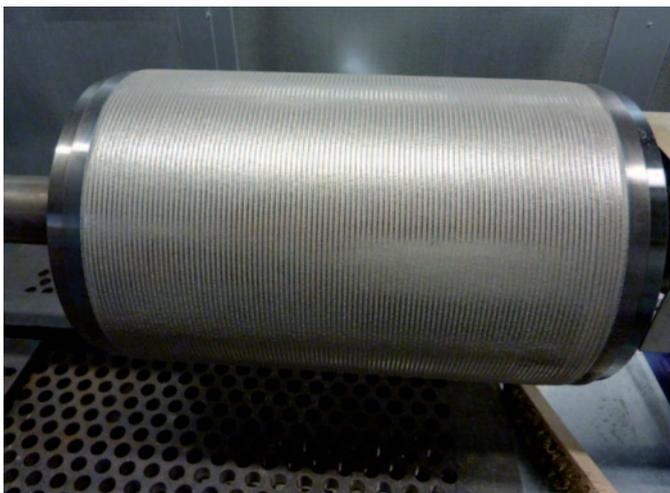
GTV uses fiber coupled laser technology for production of wear and corrosion protective coatings. This technology is well established and guarantees high efficiency.

Modern lasers can be used with minimum maintenance demands for coating applications due to their robust design. So, integration of Laser Cladding in existing conventional Thermal Spray installations as well as their combination in novel coating centers can be realized economically.

GTV expands its existing portfolio by the trendsetting Laser Cladding technology. Competence and experience in development of coating solutions based on Thermal Spraying in GTV's own research and development department, in project planning of special solutions including multi-torch and multi-process centers during the past decades are now applied to the field of Laser Cladding as well. Well established coating center components like control units, gas control cabinets and laser powder feeders guarantee the well known high quality standard of GTV installations in the field of coating technology.



GTV's laser equipment portfolio is completed by laser cladding cabins tailored to customer's demands. These cabins can be realized with sound protection design suitable for combination with high noise level Thermal Spray processes.



**Some advantages at a glance:**

- Low heat transfer to substrate
- Metallurgical bonding between coating and substrate at minimum dissolution
- High density coatings
- Homogeneous microstructure
- High process stability, accordingly easy automation
- Combination with Thermal Spray processes possible



Ever since the company was established in 1982, the name GTV has stood for top quality and a high level of delivery reliability for all types of thermal spray products.

GTV provides its customers with many years of experience in all aspects of the high-technology field of thermal spray technology, enabling them to make use of the effective and efficient GTV system solutions in order to gain a substantial competitive advantage in the market.

