

SAXONY





Südstraße 8, 09648 Altmittweida

Phone: +49 (0) 37 27 99 74 - 0 Fax: +49 (0) 37 27 99 74 - 10 E-Mail: info@laservorm.com Internet: www.laservorm.com

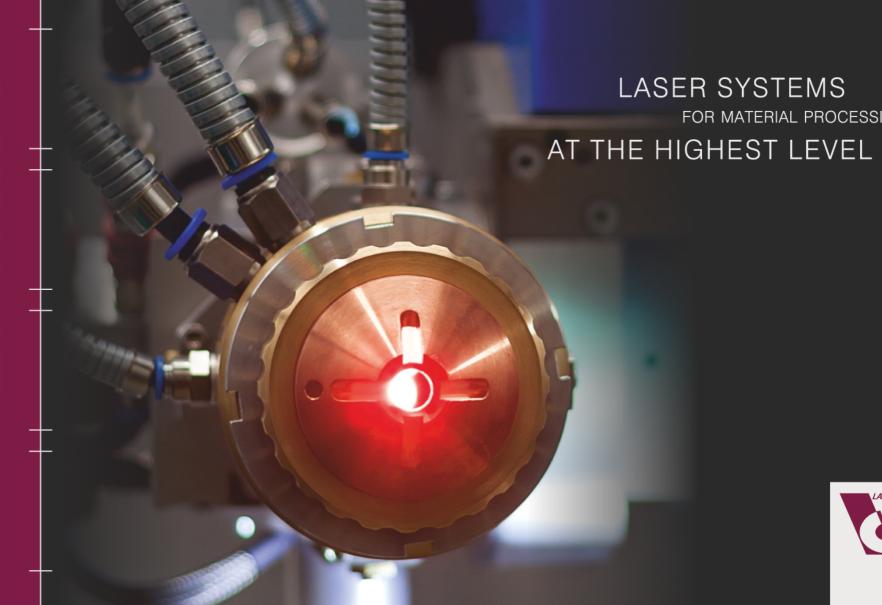














FOR MATERIAL PROCESSING

WELDING CLADDING

HARDENING

- laser material processing from individual parts to mass production
- travelling range (X,Y,Z): 670 mm x 300 mm x 300 mm
- programmability and reproducibility of the important technological parameters
- fast and easy retrofitting
- ergonomic workspace access by means of a large doorway
- individually adjustable operating panel
- environment-friendly and economic resource management



laser cladding process on turbine blades



laser-hardened component

EQUIPMENT:

Laser: • fibre-coupled solid state laser

Optics: • process-specific optics

additional components such as LV LineScan possible

Mechanics: • 3-axis, 4-axis or 5-axis design

extremely high stiffness due to the LV CBase machine frame

Control/Software: • programmable beam shaping on the workpiece

adaptive processing

central data maintenance for easy process validation

simple integration into the process management

Housing: • referred to laser protection class 1

optional: active housing

Service: • maintenance, repair and spare parts

technology development

operator training

remote access to system parameters possible



powder nozzle in operation



engineering at LASERVORM



APPLICATION EXAMPLES

- MRO at blisks and turbine blades
- welding of clutch, steering and gearbox components
- 3D welding of surgical instruments
- laser hardening of components and tensioning means
- 3D welding of heat exchanger components
- Helium seal welds



cw laser welding of flexible metal bellows with a connecting part made of high-alloyed CrNi-steel



detail of an aircraft turbine



programmed geometry of an laser cladded bead

20 YEARS OF EXPERIENCE