

The rising amount of passenger cars worldwide and continuously increasing emission of fine dust pollution channel the focus on the fine dust emission of the vehicles' brake systems. They constitute about 15 % of the total emissions of road traffic. Due to laser cladding the fine dust of brake discs can be reduced by 90 %.

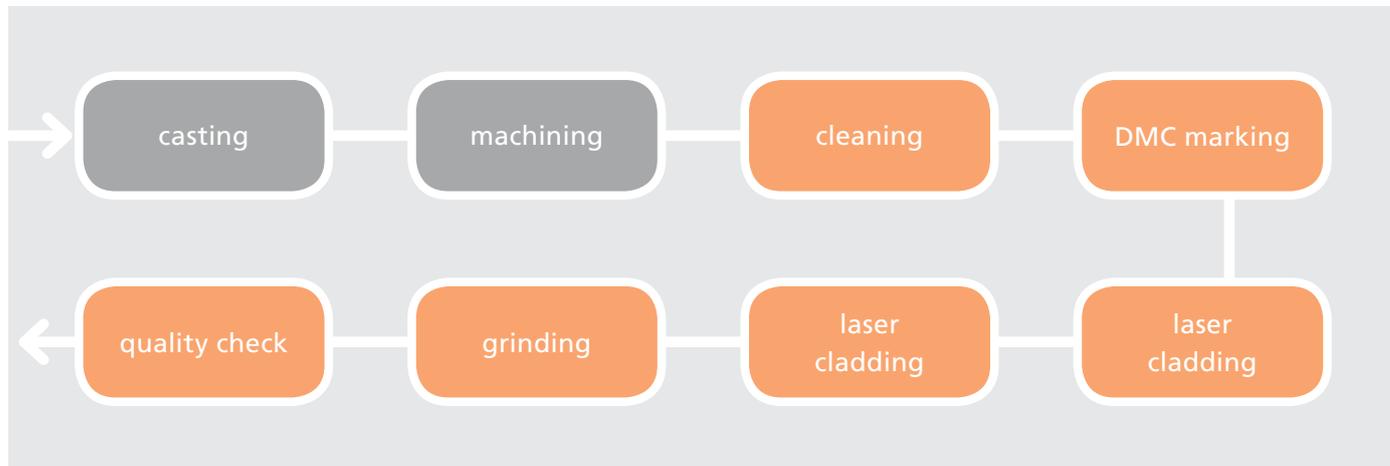
SITEC manufactured production solutions are capable to produce various types of brake discs from prototype to mass production quantities.

Your requirement A process reliable production fulfilling your requirements on type diversity and cycle time as well as the manufacturing of ecofriendly brake discs in small, medium and large quantities.

Your SITEC solution With almost 30 years experience in design and construction of automated production lines and laser machines, SITEC is your partner for future challenges. Single parts enter our production line before or after washing. Laser marking zones assure full traceability. Handling systems will transfer the discs from material input through the workstations. Depending on the required output, one or more laser cells will perform cladding of the brake discs reliably and within just a few seconds. After the laser cladding station, a grinding and a cleaning station finish the production process of the cladded brake discs. A geometric measurement process will be followed by packing operations. As the last step of our automated production line, the end of line test will guarantee a 100% quality control.

Series production If your current output doesn't justify the investment in new production hardware - SITEC is pleased to offer its series production facilities. Certified by ISO 9001 and IATF 16949, SITEC is your experienced partner for automotive supply.

Process flow



Production solution



Standardized laser machines for prototypes and series start-up

- Laser standard machine of the LS series
- SIEMENS control
- OEM laser source
- High accuracy optics
- Manual or automatic loading
- Various fixture concepts
- Small footprint
- Line integrability
- Short delivery times
- 6 minutes cycle time possible*
- Up to 100,000 parts per year and machine*

As flexible as you!

* depending on the geometry

Fully automated laser cladding machines for mass production

- Automated laser machine
- SIEMENS control
- OEM laser source
- High speed accuracy optics
- Full automation inclusive
- Quick exchange fixture interface
- VARIOVIEW® traceability system
- 30 seconds cycle time*
- Up to 500,000 parts per year and machine*

As focused as you!