



DR. DETLEV MERGENTHALER

SUCCESSSTORY
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Mergenthaler GmbH & Co. KG

Our motto “Ultimate Laser Processing” has been the claim for our products for 30 years now.

The start after the doctorate in Experimental Physics at the University of Ulm succeeded with a C1 research program of the state of Baden-Württemberg. Even though the apparatus developed at that time, which was also the subject of the doctorate, has long been discontinued, the laser components and the measurement of the temperatures generated by the laser on workpieces remain the central theme of all Mergenthaler products to this day. Today, Mergenthaler has over 2000 installations of its LASCON process controller in use worldwide. The device measures the temperature in the laser focus without contact and controls the laser up to 10,000 times per second so that the temperatures



Behind innovative inventions, their implementation and the companies that create them, there are always people with a passion for progress and development, who make these things their life-goals. They have the urge to turn ideas into reality, to improve on existing conditions, in the world in general and in their own lives.

caused by the laser follows a programmed target temperature. The laser processes are not only controlled, but also monitored, stored and analyzed in real time.

Important applications for LASCON controllers are laser hardening, laser cladding, plastic welding and laser soldering. Especially for additive metal 3D printing with laser scanners, an even faster system with 50,000 temperature measurements per second was developed.

For over 10 years, Mergenthaler has also been producing its own laser products for laser soldering and laser plastic welding. We support machine builders of large automotive suppliers as well as medium-sized companies worldwide on site with their installations and production start. In addition to an established worldwide sales network, we have also have a representation of our own company in Shenzhen (China) since 3 years. There, too, we are constantly developing new products and solutions for the rapidly growing market on the subject of

photonic soldering and laser reflow soldering – new, innovative processes that compete with classic soldering methods. These laser processes are frequently used in the display industry and for other sensitive products.

The high pace of innovation is possible due to almost continuous support from federal research funding. Mergenthaler's involvement in research networks has also enabled the company to establish numerous new customer contacts. The ultimate driver of success, however, is our team, which focuses on the customer as the central theme of its daily activities.

So even after 30 years, there is no service fatigue. On the contrary: in daily contact with customers, their product ideas and production requirements, innovative products are constantly being designed. But of course with the proverbial claim to quality and reliability of a product "Made in Swabia".

www.mergenthaler-laser.com

These people put their knowledge, passion, money and time into projects which then, ideally, meet with success. Concrete examples of success such as these are the best motivation!

You can find more regional success stories at:

www.nanuuu.de

