BBW Lasertechnik develops new machine and automation concept for the automotive and e-mobility industries.

Prutting, June 13, 2023 – BBW Lasertechnik has developed its own machine and automation concept and thus offers automated laser welding as a service. With the new systems, customers of the manufacturing specialist benefit from the advantages of automation - without long lead times and high investment costs. In particular, customers from the automotive and e-mobility sectors are being targeted.

Fast and flexible implementation of customer requests with low investment costs

Many contract manufacturers work with classic machine tools, i.e. the machines are loaded manually from the front and removed again after the machining process, such as laser welding. Additional work and testing processes are carried out manually at separate workstations, which results in high costs.

BBW Lasertechnik has been distinguished for years by its in-house design and construction department as well as its own production equipment. Through this combination, automated solutions for specific projects could already be built up in the past. With the newly developed automation concept, BBW Lasertechnik has now reached the next level: Product inquiries can now be approached and realized even faster, more flexibly and with lower investment costs on the customer side. The first projects have already been successfully implemented with the new approach.

Individual linking of laser-based processes and test procedures

The concept includes longitudinally clocked systems in which various laser-based processing steps and associated inspection procedures are carried out on processing stations connected in series. For example, BBW Lasertechnik is able to link the processes of laser welding, laser marking and an automated visual inspection. To increase output, additional stations can be added downstream - the systems were designed from the outset to be flexible with the appropriate installation space. The spatially separated parts infeed and outfeed can be implemented either manually or robot-based. It often makes sense to start manually for a quick series start and then successively switch to robotics. The workpiece carriers used to transport the components between the processing stations are adapted to the specific product.

Suitable for products in the automotive and e-mobility sectors

The size of the parts to be machined is in the smartphone range and is aimed at e-mobility products such as cell and plug connectors or busbars. In general, the use of the systems is particularly suitable in the automotive sector. High volumes can also be produced cost-effectively for limited periods. Ideal, therefore, for a rapid ramp-up of production and projects with an unclear duration.

"We have specifically supplemented our competencies in design as well as fixture and mechanical engineering with robotics and automatic visual inspections. As a result, we are now able to adapt our automated solutions to product-specific requirements within a very short time - without external dependencies," says Andreas Bürger, Managing Director of BBW Lasertechnik.

Pressemitteilung Englisch

Robotics with automatic visual control

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About BBW Lasertechnik:
BBW Lasertechnik GmbH is one of the leading specialists in the field of laser material processing in Germany. The company's service portfolio includes laser welding, cutting, drilling and surface processing with lasers, as well as mechanical manufacturing and assembly. If necessary, customized fixtures and machines are also developed in the company's own design department. These capabilities allow it to supply customers from all sectors of industry. Founded in 1997, BBW Lasertechnik now has around 50 laser systems, employs around 200 people and is committed to continuous growth.

Find more information about BBW Lasertechnik at: https://www.bbw-lasertechnik.de/

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