

PRESS RELEASE

Product innovation X-WELD facilitates manual laser welding

- **ZELTWANGER expands its product portfolio and offers a manual workstation for laser welding**
- **X-WELD combines ergonomics with multifunctionality**
- **Integration of different laser sources is possible**
- **Particularly relevant for the medical device industry**

Tübingen (Germany), 06.02.2021 +++ The ZELTWANGER Group is broadening its position in the field of laser technology and presenting its product innovation X-WELD. This is a compact, ergonomic, and individually adjustable manual welding laser. The model is specially designed to perform manual welding processes without fatigue. The X-WELD has been available on the market since May 2021.

The main benefit of the product is that it has a height-adjustable working area and can therefore be optimally adjusted to the size of the user. In combination with other equipment features, the X-WELD is considerably more ergonomic than other market competitors and thus creates the best conditions for more efficient working. This leads to consistent welding results in production and thus to improved quality.

The modular design allows different laser sources to be integrated into the X-WELD to meet the demanding requirements of different industries. This avoids having to repeat the validation process for the customer. "During the development of the X-WELD, the decisive criterion from our point of view was that different laser sources from various manufacturers with a maximum pulse energy of 10 kW may be used problem-free. We aim to provide customers with the flexibility to choose their laser. Thus, the welding process can be configured according to the existing working conditions in the customer's production. This is a mandatory requirement, particularly in the field of medical devices due to process validation," says Matthias Neumann, Managing Director of the ZELTWANGER Laser Robotic Applications division.

Despite the compact size of the system, the working area is spacious and is suitable for processing both long, bulky, and complex components. Depending on the equipment level, a linear axis or a revolving device can be used as an option to facilitate the processing of cylindrical and elongated workpieces and to permanently achieve the same high-quality welding results. With the aid of control elements, the laser parameters can be readjusted directly within the working area. More than 400 part-related laser parameters can be stored via the user interface, which are selected by the operator or via a barcode scanner. This ensures that the identical laser parameters are always applied. Operating errors are eliminated and safety and quality in production are increased.

During the welding process, the direct view into the working area is possible without hesitation because of using a laser protection window. The laser area of the X-WELD is structurally separate so that users are protected from the laser radiation. The entire periphery is integrated in the housing, so the complete manual station is flexible and mobile. The system can be used in production without any more safety devices. In addition, fewer skilled personnel are needed overall because the welding processes are automated.

The medical device industry requires the highest quality and precision in the machining processes used. This also applies to laser applications, the use of which is steadily increasing. With the aid of a laser, almost perfect weld joints are possible. Often, such work has to be done manually due to the complexity or large part variance. The X-WELD was designed to handle these manual laser welding processes.

About the ZELTWANGER Group

Since it was founded in 1982, the ZELTWANGER Group has established a prominent position in the market. The Group's success has always been characterized by an irrepressible passion for technology. ZELTWANGER stands for skill, innovation, and technical solutions to the highest standard. In the fields of automation, leak testing, laser technology, and contract manufacturing, ZELTWANGER is now a technology and innovation leader. Whether for plant construction, the automotive sector, e-mobility, medical technology, packaging, or plastics technology – ZELTWANGER's solutions are setting standards across an exceptionally wide range of industries. Passion for technology – this is what drives over 450 employees at 5 locations worldwide.

Press contact:

ZELTWANGER Holding GmbH
Steffen Kirchenbauer
Marketing & corporate communication
Jopestr. 3
72072 Tübingen, Germany
Phone +49 7071 3663-119
E-mail S.Kirchenbauer@zeltwanger.de
pr@zeltwanger.de