BATTERY LASER WELDING WORKSTATION

Easy to operate, this workstation is ideal to support your R&D team, develop your laser welding process, and start making small production batches. Our battery and laser welding experts will guide you and help you speed things—even before the workstation is delivered.

The workstation is designed to ensure a smooth transition when you need to scale up and automate production. On that day, you will be able to use the same laser configuration so that the process you developed is 100% compatible in the automated production line.

RENT NOW, PURCHASE LATER

With a short lead time, this workstation is available for purchase or rent to get you started as soon as possible. You can use it for small production batches, to support you during preproduction, or to make laser welding tests for product development. You can purchase the workstation later, or upgrade to a fully automated machine with the same welding parameters.

R&D DEVELOPMENT WITH PRODUCTION HARDWARE

When you need to scale up production and upgrade to a fully automated solution, the same laser source and optical components will be used. As a result, you will work with the same laser process and remain 100% compatible for high-volume inline production.

EASY TO OPERATE

Operated manually, this workstation is safe and easy to use. It comes fully configured and ready to use with features such as cooling, optics, laser safety, and a control laptop. It includes a dedicated laser process software with easy-to-use templates to get you started quickly. Clamping and fixtures are not included but can be custom-designed and supplied if needed.

DEVELOP YOUR PROCESS WITH LASER WELDING EXPERTS

Our laser welding experts can study your application and optimize laser welding for you. The machine comes with preconfigured laser welding processes based on your specifications. You can then test and perfect your welding process with remote support from our experts, who can help you adjust the laser welding configuration based on your evolving needs.

TECHNICAL SPECIFICATIONS

	BATTERY LASER WELDING WORKSTATION
Laser Power	2000W continuous-wave
Laser Type	Ytterbium-doped fiber
Wavelength	1070 nm
Laser Source MTBF	100,000 hours
Laser Process	Laser welding
Part Material	Nickel-plated steel, aluminum, copper, stainless steel (all metals)
Cooling	Water-cooling (chiller included)
Welding Optics Field of View	400 x 400 mm
Maximum Part Dimensions (W x D x H)	800 x 500 x 220 mm
Tooling (cell and module clamping)	Not included (optional)
Communications and Control	PC
Power Requirements	480V/60Hz or 400V/50Hz
Power Consumption	14 kW
Operating Temperature	10°C to 30°C (Higher temperature available with lower humidity)
Operating Humidity	< 70%
Part Loading	Manual
Door Opening/Closing	Manual
Fumes Extraction	Included
General Dimensions (W x D x H)	1100 x 1200 x 2000 mm 2600 mm height with door opened
Typical Weight	Machine with laser: 800 kg Chiller (with water): 500 kg

LASERAX

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