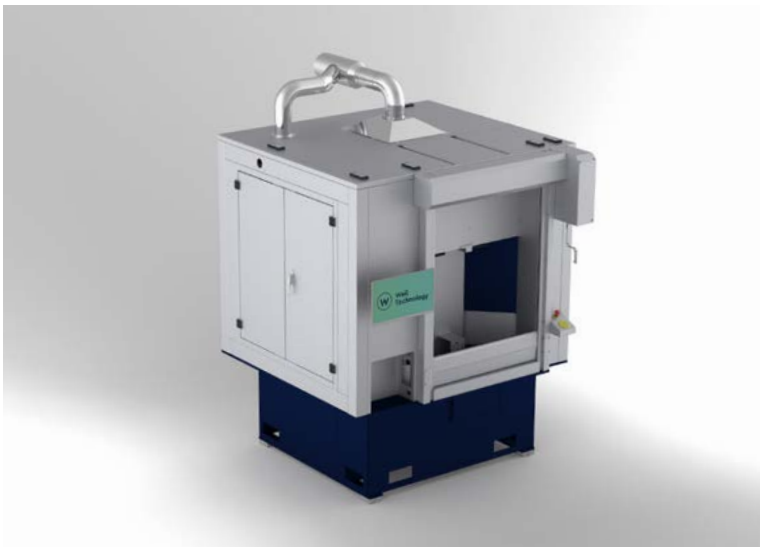
Manufacturing solutions for cost-effective cell contacting of battery modules and power packs



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Thanks to rapidly evolving battery technologies, more and more portable and mobile tools and devices are being equipped with compact and lightweight battery systems. In manufacturing, laser welding is used, particularly for cell contacting, during the assembly of battery modules. The use of laser-welding in cell contacting is characterized by high reliability and low cost per cell.

Efficient laser welding of cell contacts for medium quantities
The four-station Laser Welding Cell (LWC) for cell contacts enables process-parallel loading and unloading as well as high flexibility for geometric contour changes thanks to its innovative scanner optics with a vision system. The compact LWC is suitable for contacting pouch cells with battery management systems as well as round cells with contacts on both sides of the pack.
The system can be operated manually or automatically to accommodate different production scenarios. Additional process steps such as the assembly of add-on components, DMC marking, or housing welding can also be integrated into the system. We also offer the appropriate system technology for large-format battery modules and higher volumes.

Weil Technology
Weil Technology's core competencies are machines for sheet metal processing by laser welding and cutting. Here we can look back on over 35 years of experience. At the company headquarters in Müllheim (Germany), around 250 employees develop and manufacture our concepts and systems. We deliver solutions to realize changes in the automotive market from exhaust systems to electromobility components. This is where our forward-looking applications as a machine supplier in the field of hydrogen and battery technology come into play.

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