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3D-Micromac launches the second generation of its high-performance microCELL OTF laser systems at SNEC 2017

The high-performance production solution for Laser Contact Opening (LCO) of PERC solar cells achieves an outstanding throughput of 8,000 wafers per hour

3D-Micromac AG, the industry leader in laser micromachining and roll-to-roll laser systems for the photovoltaic, medical device and electronics markets, is presenting its highly productive microCELL systems for laser processing of crystalline solar cells at the SNEC 2017 International Photovoltaic Power Generation Conference & Exhibition, to be held April 17-21 in Shanghai, China.

In addition to showcasing the microCELL TLS, a production solution for half-cell cutting with Thermal Laser Separation (TLS), 3D-Micromac will introduce its second-generation microCELL OTF system for Laser Contact Opening (LCO) of high-efficiency PERC solar cells.

The industry-proven microCELL OTF systems produce a selective opening on backside-passivated multi- and monocrystalline solar cells to allow more light to be absorbed by the solar cell. The newly introduced second-generation system provides outstanding productivity with a throughput of more than 8,000 wafers per hour—double the throughput of the previous-generation microCELL OTF system and well above that of competing solutions. This is facilitated by dual-lane wafer handling and on-the-fly laser processing. The new tool generation meets customers' requirements for inline integration into two- or three-line metallization machinery since the throughput of the single laser process step now matches that of the other process steps in the production line—ensuring that the laser process is not the bottleneck in material flow.

Besides PERC, the tool can also be used for laser-doped selective emitter processes.

For more information, please visit <http://lasers-for-photovoltaics.com>

About 3D-Micromac

Founded in 2002, 3D-Micromac AG is the industry leader in laser micromachining, delivering powerful, user-friendly and leading edge processes with superior production efficiency. We develop processes, machines and turnkey solutions at the highest technical and technological level. 3D-Micromac systems and services have been successfully implemented in various high-tech industries worldwide including photovoltaic, semiconductor, glass and display industries, micro diagnostics, and medical technology. For more information, visit the company's website at <http://www.3d-micromac.com>.



Second generation of microCELL OTF laser system for laser contact opening (LCO)

Micromachining Excellence



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