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3D-Micromac receives large volume orders from solar industry for its microCELL TLS system totaling more than 1.5 GW

3D-Micromac succeeds with the industrialization of its half-cell cutting process by thermal laser separation for solar cell separation

3D-Micromac AG, the industry leader in laser micromachining and roll-to-roll laser systems for the photovoltaic, medical device and electronics markets, today announced that the total received order volume for its microCELL TLS high-throughput half-cell cutting tools tops 1.5 GW for tool deliveries in 2017 to date.

The microCELL TLS systems use Thermal Laser Separation for cleaving solar cells into half-cells. This process provides a multitude of mechanical and electrical benefits to customers. The separated cells show a significantly higher mechanical strength, better edge quality as well as lower power reduction compared to laser scribing and cleaving approaches. A module power gain of more than 1 W was seen with TLS compared to conventional scribe and break methods, in addition to the 5-7 W per module gain of half-cell module technology.

Further cementing its position as the market leader for laser systems in photovoltaics, 3D-Micromac also yesterday introduced its second-generation microCELL OTF system, the high-performance production solution for Laser Contact Opening (LCO) of PERC solar cells, which achieves a world-class throughput of 8,000 wafers per hour.

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>.

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microCELL TLS laser system for half-cell cutting using thermal laser separation