



NEWS RELEASE

# SkyWater Announces Enhanced Capabilities with Multibeam's First in Industry High Productivity Multicolumn E-Beam Lithography System

7/25/2024

Positions SkyWater's Minnesota fab with the most advanced 200 mm lithography offering in the world

BLOOMINGTON, Minn. & SANTA CLARA, Calif.--(BUSINESS WIRE)-- **SkyWater Technology** (NASDAQ: SKYT) announced today that it has received from Multibeam Corp., a first-of-a-kind Multicolumn E-Beam Lithography (MEBL) system for volume production. The Multibeam (MB) platform is a landmark for the semiconductor industry, offering a high-throughput direct write patterning system that is orders of magnitude faster and more productive than conventional e-beam tools. The MB system will be available to SkyWater customers for early concept prototyping and rapid production.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20240725367118/en/>

(Photo: Business Wire)

MEBL enables several new production capabilities for

SkyWater's customers including secure chip ID for anti-counterfeit applications and full wafer patterning to support focal plane read-out ICs and other types of large format die. MEBL also offers large depth of focus for a range of high topology microfluidic and MEMS architectures, curvilinear designs for photonics, and high-density MOS. In addition, it is the only production lithography tool capable of sub 50 nm geometries on 200 mm wafers.



Uniquely configured with multiple miniaturized electron beam columns, the MB platform elevates E-Beam Lithography (EBL) to a breakthrough maskless lithography production system with compelling performance and cost advantages for today's IC fabs. The delivery of the first Multibeam system follows a close collaboration with SkyWater over the past two years. This partnership provided critical fab operational insights which were used to define key system performance specifications before delivery of the MB platform to SkyWater.

According to Multibeam Chairman and CEO, Dr. David K. Lam, "This is a significant milestone for Multibeam and we are immensely proud to share it with SkyWater. From the outset of our engagement with SkyWater they supported our mission to re-innovate EBL for high-volume production and provided critical user perspectives that helped us accelerate our development program and commercialize a world-class maskless lithography system. We are grateful for their collaboration and thrilled to place our first production tool in a SkyWater fab."

SkyWater CEO and Director, Thomas Sonderman emphasized the value of this technology for customers across target growth markets, "We are excited to offer new lithography capabilities to our customers enabled by Multibeam's revolutionary technology. The deployment of the MB platform will expand capabilities and time to market for innovators on the concept-to-production journey in secure defense, biomedical, thermal imaging, high reliability and advanced compute markets."

Sonderman added: "Our engagement with Multibeam exemplifies the power of partnerships in developing breakthrough equipment to accelerate chip innovation in the U.S. and positions SkyWater's Minnesota fab with the most advanced 200 mm lithography in the world."

SkyWater will enable access to the tool for initial customer designs in 4Q24.

## About Multibeam

Multibeam helps semiconductor leaders accelerate chip innovation with the industry's first Multicolumn E-Beam Lithography (MEBL) system built for volume production. The technology enables applications like rapid prototyping, advanced packaging and heterogeneous integration, chip ID and traceability, high-mix quick-turn manufacturing, compound semiconductors, and more. Headquartered in Silicon Valley, the company is privately held and led by a team of semiconductor equipment and patterning technology experts. For more information, visit [www.multibeamcorp.com](http://www.multibeamcorp.com).

## About SkyWater Technology

SkyWater (NASDAQ: SKYT) is a U.S.-based semiconductor manufacturer and a DMEA-accredited Category 1A Trusted Supplier. SkyWater's Technology as a Service model streamlines the path to production for customers with

development services, volume production and heterogeneous integration solutions in its U.S. facilities. This pioneering model enables innovators to co-create the next wave of technology within diverse categories including mixed-signal CMOS, ROICs, rad-hard ICs, MEMS, superconducting ICs, photonics and advanced packaging. SkyWater serves the growing markets of aerospace & defense, automotive, biomedical, industrial and quantum computing. For more information, visit: [www.skywatertechnology.com](http://www.skywatertechnology.com)

## SkyWater Technology Forward-Looking Statements

This press release contains “forward-looking” statements within the meaning of the Private Securities Litigation Reform Act of 1995, including statements that are based on the Company’s current expectations or forecasts of future events, rather than past events and outcomes, and such statements are not guarantees of future performance. Forward-looking statements are subject to risks, uncertainties and assumptions, which may cause the Company’s actual results, performance or achievements to be materially different from those expressed or implied by such forward-looking statements. Key factors that could cause the Company’s actual results to be different than expected or anticipated include, but are not limited to, factors discussed in the “Risk Factors” section of its annual report on Form 10-K and quarterly reports on Form 10-Q, and in other documents that the Company files with the SEC, which are available at <http://www.sec.gov>. The Company assumes no obligation to update any forward-looking statements, which speak only as of the date of this press release.

SKYT-CORP

View source version on [businesswire.com](https://www.businesswire.com/news/home/20240725367118/en/): <https://www.businesswire.com/news/home/20240725367118/en/>

Multibeam Contact: Shani Williams | [swilliams@multibeamcorp.com](mailto:swilliams@multibeamcorp.com)

SkyWater Company Contact: Tara Luther | +1 952-851-5023 | [tara.luther@skywatertechnology.com](mailto:tara.luther@skywatertechnology.com)

SkyWater Media Contact: Lauri Julian | +1 949-280-5602 | [lauri.julian@skywatertechnology.com](mailto:lauri.julian@skywatertechnology.com)

Source: SkyWater Technology