

Press Release

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3D Systems Expands High Precision Investment Casting Portfolio with QuickCast Air™

- Advanced software tool maximizes material removal from casting pattern interiors for cleaner burnout, more efficient draining
- Customers realizing up to 50% reduction in material consumption, multi-hour reduction in build times
- Step change in material efficiency has demonstrated cost competitiveness with traditional injection molded wax patterns
- Expands on Company's pioneering solution that is recognized as the industry standard to additively manufacture casting patterns
- 3D Systems' solutions driving growth of additive manufacturing use in investment casting — total market anticipated to reach \$33.9 billion by end of 2034

ROCK HILL, South Carolina, September 4, 2024 – Today, [3D Systems](https://www.3dsystems.com) (NYSE:DDD), announced [QuickCast Air™](#) - an advanced tool in its investment casting portfolio, designed to maximize material removal from the interior of casting patterns. This enables reduced material consumption, lower pattern costs, faster build times, cleaner burnout processes, and improved draining efficiency. As a result, end-users in industries such as foundries, aerospace & defense, and energy can reliably deliver large, high-precision investment casting patterns at a fraction of the time and cost of traditional tooling and with no limitation on geometric complexity. QuickCast Air is already helping some of the Company's large-volume aerospace customers reduce the material consumption on their patterns by up to 50%. Additionally, customers are seeing a multi-hour reduction in build times.

QuickCast Air is available to 3D Systems' customers through its [3D Sprint®](#) software which is integral to the Company's polymer printing platforms. This feature, available via an annual subscription, allows customers to design casting patterns with fewer structures within the self-supporting walls. Using less resin and building more refined support structures results in less material needing to be burned out and thus less ash. Furthermore, having less internal structure makes it easier to drain the resin, thus retaining more within the vat during the draining process rather than being lost downstream. Within 3D Sprint, users can easily adjust the part's shell thickness and add vents and drains on any surface, simplifying part set-up regardless of the build orientation.

Investment casting is the process of pouring molten metal into ceramic shells made from sacrificial patterns with a history that is thousands of years old. Using traditional methods such as creating a wax injection tool is both time consuming and expensive requiring several weeks and tens of thousands of dollars. In the mid-1990s, 3D Systems pioneered creating high precision casting patterns using 3D printing, introducing the manufacturing industry to QuickCast®. This 3D-printed investment casting process enables manufacturers to produce lightweight, hollow parts with 3D Systems' polymer technologies such as Stereolithography (SLA), or MultiJet Printing (MJP) that ultimately can be used to produce end-use metal components. QuickCast patterns are recognized as the leading type of additively manufactured high precision pattern across the industry enabling manufacturers to improve efficiency and reduce cost.

"Since 3D Systems introduced QuickCast more than two decades ago, we have continued to evolve this unique tool and the capabilities it provides," said Patrick Dunne, VP, advanced applications, 3D Systems. "Our customer-centric approach to innovation fuels this transformation by closely aligning with their unique challenges. As with many of our products, QuickCast Air was born from a specific customer's application requirements. I'm pleased that we are now able to bring this advanced tool to market thus refining the design and production of investment casting patterns. I'm looking forward to seeing how the adoption of QuickCast Air will continue to unlock design freedom and accelerate production timelines."

According to Transparency Market Research¹, the investment casting market was valued at \$16.9 billion in 2023 and is anticipated to reach \$33.9 billion by end of 2034. Additive

¹ Transparency Market Research, "Investment Casting Market (Material Type: Ferrous Alloys and Non-ferrous Alloys) – Global Industry Analysis, Size, Share, Growth, Trends, and Forecast, 2024-2034" (May 2024).

manufacturing is disrupting this sector by enabling a more cost-effective, efficient alternative to the traditional pattern making process that does not require tooling. As the pioneer of an industry-standard methodology, 3D Systems has demonstrated its extensive experience helping customers address their application challenges through its additive manufacturing solutions comprising materials, 3D printing technologies, software, and services. As a result, a variety of industries are able to reliably deliver large, high-precision casting patterns in a fraction of the time and at much lower cost than associated with traditional tooling.

3D Systems will showcase QuickCast Air in its booth (West Building, booth 433129) at this year's International Manufacturing Technology Show (IMTS) to be held September 9-14 at McCormick Place in Chicago, Illinois. Show attendees are welcome to stop by to see how 3D Systems' large-format 3D printing solutions accelerate problem-solving on the factory floor to optimize workflows, increase uptime, and extend equipment life. For more information, please visit [the Company's website](#).

Forward-Looking Statements

Certain statements made in this release that are not statements of historical or current facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance or achievements of the company to be materially different from historical results or from any future results or projections expressed or implied by such forward-looking statements. In many cases, forward-looking statements can be identified by terms such as "believes," "belief," "expects," "may," "will," "estimates," "intends," "anticipates" or "plans" or the negative of these terms or other comparable terminology. Forward-looking statements are based upon management's beliefs, assumptions, and current expectations and may include comments as to the company's beliefs and expectations as to future events and trends affecting its business and are necessarily subject to uncertainties, many of which are outside the control of the company. The factors described under the headings "Forward-Looking Statements" and "Risk Factors" in the company's periodic filings with the Securities and Exchange Commission, as well as other factors, could cause actual results to differ materially from those reflected or predicted in forward-looking statements. Although management believes that the expectations reflected in the forward-looking statements are reasonable, forward-looking statements are not, and should not be relied upon as a guarantee of future performance or results, nor will they necessarily prove to be accurate indications of the times at which such performance or results will be achieved. The forward-looking statements

included are made only as of the date of the statement. 3D Systems undertakes no obligation to update or revise any forward-looking statements made by management or on its behalf, whether as a result of future developments, subsequent events or circumstances or otherwise, except as required by law.

About 3D Systems

More than 35 years ago, 3D Systems brought the innovation of 3D printing to the manufacturing industry. Today, as the leading additive manufacturing solutions partner, we bring innovation, performance, and reliability to every interaction - empowering our customers to create products and business models never before possible. Thanks to our unique offering of hardware, software, materials, and services, each application-specific solution is powered by the expertise of our application engineers who collaborate with customers to transform how they deliver their products and services. 3D Systems' solutions address a variety of advanced applications in healthcare and industrial markets such as medical and dental, aerospace & defense, automotive, and durable goods. More information on the company is available at www.3dsystems.com.

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