Mapping

The key players in plastics

Influential and leading companies in the polymer AM segment, from hardware, materials and services



In our mapping chapter, VoxelMatters is highlighting key players in polymer additive manufacturing, specifically from hardware, materials and services, and looking at their latest innovations.

The polymer AM market is made up of a diverse range of companies providing hardware, materials and services to AM users. Influential and leading hardware companies tend to specialize in one particular technology area—3D Systems predominantly deals in vat photopolymerization, for example although the biggest players naturally have a foothold in a number of technologies. The technologies considered here are material extrusion, vat photopolymerization, powder bed fusion and material jetting.

In this chapter, we look at a mixture of major players and rising stars in polymer AM. For companies that have a foothold in more than one area of the market, we have categorized them by the area in which their recent activity warrants the sharpest focus. For instance, while Stratasys operates its Stratasys Direct manufacturing service and is arguably still the most recognizable provider of polymer printing hardware, its movements in the materials space have been eye-catching in recent years. The 15 companies detailed here are presented in no particular order and do not represent the largest companies in terms of revenue.

Finally, it is worth pointing out that most companies enjoying success in the polymer AM market in 2025 are typically providing a unique product, diversifying their offering or attempting to push boundaries in one direction or another. Hardware companies may be focusing on an increase in a particular area of performance such as build volume (Formlabs) or speed (Axtra3D), while most successful material companies have been widening their portfolios through new product lines or business acquisitions.

Hardware

Formlabs

Though it has entered other markets in recent years, Formlabs remains the leader in desktop vat photopolymerization. In 2024, the Massachusetts company launched the Form 4 and large-format Form 4L (with a build volume nearly five times that of the Form 4) with the goal of bringing resin 3D printing closer to injection molding quality. In March 2025 it added the ultra-fast Form Cure curing station to its hardware portfolio.

Besides SLA, Formlabs has a foothold in powder bed fusion with its Fuse line of printers. The most recent model in that line, the Fuse 1+ 30W, provides a compact footprint and a high level of affordability for SLS. In 2024, Formlabs completed the acquisition of SLS startup Micronics, bringing that

Formlabs, a leader in desktop vat photopolymerization, is aiming to bring resin 3D printing closer to injection molding in terms of quality.

Image: Formlabs



company's expertise on board while effectively ending (or subsuming) the development of its promised \$3,000 SLS machine, the Micron.

Axtra3D

High-speed SLA specialist Axtra3D, operating in Charlotte, NC and Vicenza, Italy, has been making rapid progress in recent years. It is notable for its patented Hybrid Photosynthesis (HPS) hardware that combines features of SLA and DLP, as well as its important breakthroughs in silicone 3D printing. Axtra3D launched the first of its Lumia HPS printers in 2023 with a focus on mold printing.

As of 2025, Axtra3D offers two distinct systems. One is the Lumia X1, its flagship product, which is powered by high-speed HPS technology and offers lights-out production capabilities. The Lumia X1 is complemented by the company's Intelli-Cartridge hardware that both actively dispenses material to the vat and collects

Axtra3D's Lumia X1 platform, based on its Hybrid Photosynthesis technology, has important applications in dental and healthcare.

Image: Prinoa Dental via Axtra3D



Bambu Lab offers a range of consumer-grade 3D printers, including the X1-Carbon.



Image: Bambu Lab

return material from it. Axtra3D's low-cost alternative to the Lumia X1 is the Revox X1, which uses DLP technology instead of HPS.

Bambu Lab

China's Bambu Lab has become one of the most important players in the consumer extrusion space by providing high-quality plug-and-play machines with a focus on ease of use. Though it has gone through its fair share of difficulties in recent years—including a legal challenge from Stratasys and product recalls—it remains on an upward trajectory.

Current Bambu Lab hardware offerings include basic Cartesian and CoreXY consumer FFF machines and, as of 2025, its H2D "all-in-one personal manufacturing hub" that combines 3D printing, laser engraving and digital cutting. Bambu Lab also offers one product targeted at professional users, the X1E CoreXY printer, which has a 320 °C nozzle and stated travel speeds of up to 500 mm/s.

3D Systems

Vat photopolymerization trailblazer 3D Systems, headquartered in Rock Hill, SC, remains one of the most important companies in polymer AM and the second biggest company in AM generally. Its current hardware portfolio includes a number of vat photopolymerization systems, from the highspeed, production-focused Figure 4 range to its classic SLA and PSLA machines. These are complemented by systems in other technology brackets like pellet extrusion, SLS and Multijet (MJP), as well as a number of industry-specific solutions such as resin dental printers.

Significant 3D Systems acquisitions in recent years have included SLS specialist Wematter (2023), polar extrusion 3D printer company dp polar (2022) and pellet extrusion 3D printing specialist Titan Robotics (2022), widening the company's overall hardware portfolio in polymer AM. However, poor FY2024 results have resulted in falling stocks in early 2025.

EOS

German powder bed fusion giant EOS is the industry's most important provider of SLS hardware for polymer AM in terms of revenue. At present, its product portfolio includes five distinct systems and a handful of variants. These include the compact FORMIGA P 110, the mid-size P3 NEXT and the ultra large-format P 770, which has a 150-liter build area for the production of large parts with high throughput.

The latest machine in the EOS polymer hardware catalog is the EOS P3 NEXT, unveiled at the 2024 edition of Formnext.