The ultimate 3D printers for Manufacturing

stratasys

Break free from the constraints of traditional production. From prototyping to end-use parts, 3D printing accelerates workflows, reduces costs, and delivers unrivaled design freedom.

Manufacturing, redefined

> Once we're happy with a product, we **don't have to go and get any injection mould tooling or anything**. We can literally produce a part, with a little bit of post-processing, insert all the parts we need to and then ship it out. That was the **revolution we were after** and now we
>
> We constantly want to diversify and change things, and the **Origin One gives us that capability**. We couldn't do without this printer now.

Simon Perrett, Head of Research and Development, Spectra Group

Challenge the constraints of traditional manufacturing with 3D printing.

In today's fast-paced manufacturing world, innovation is the key to staying ahead. Traditional methods like machining, molding, and welding come with limitations—tooling costs, material waste, and long lead times that slow production and inflate expenses.

3D printing redefines these boundaries by adding rather than subtracting material. Unlocking unparalleled design freedom for manufacturers, streamlining workflows, and reducing dependency on external suppliers. From rapid prototyping to full-scale production, additive manufacturing transforms the supply chain—eliminating bottlenecks, cutting costs, and enabling agile, in-house production.

A revolution in manufacturing

With industrial-grade materials like carbon fiber and high-performance thermoplastics, 3D printed parts now match and even surpass traditionally manufactured components. From aerospace to automotive, manufacturers are leveraging additive technology to create lightweight, durable, and cost-effective solutions.

SYS Systems & Stratasys can deliver the ultimate 3D printing solutions for manufacturing—offering cutting-edge technology to drive efficiency, boost productivity, and bring products to market faster than ever before.

The benefits of Stratasys 3D printing **for manufacturing**

Freedom of design

Conventional manufacturing is limited by certain physical constraints, requiring design-for-manufacture-and-assembly (DFMA) considerations. However, the restraints of DFMA are substantially reduced through the additive nature of 3D printing, enabling the manufacture of highly complex geometries in a singular production process with little or no cost-penalty.

Mass customisation

By removing traditional economies of scale, personalisation can go mass-market, opening up a huge opportunity across sectors to add value to products through personalisation, when it was previously cost-prohibitive. This can be considerably important for companies such as automakers to economically justify greater personalization in their products, allowing for market distinction.

Digital inventory

3D printing's ability to produce parts on demand relative to traditional manufacturing processes means supply chains can be reconfigured for zero-inventory "digital stock." This point-of-use production shortens the supply chain, hastens delivery, and reduces inventory costs. When traditional supply chains are impacted by work shortages or unforeseen events, 3D printing's capabilities short-circuit these roadblocks allowing companies to continue producing.

Complex geometries

The digital nature of 3D printing allows for the precise positioning of multiple materials at a micron scale. This opens up the possibility of embedding new kinds of functionality into products, whether it's computer intelligence, exotic material properties, unique motion properties, and much more. This capability can eliminate manufacturing steps, reducing cycle time and cost.

Reduced cost

Unlike traditional production processes, 3D printing is entirely digital and toolless, meaning there's no capital cost difference between printing one part or a thousand. The result is that companies can disrupt the traditional economies of scale, by allowing cost-effective production of low-to-mid-volume batches.

Up to

98%

reduction in manufacturing costs.

75%

of global manufacturing is using 3D printed components.

Stacking Builds For **Maximum Throughput**

One hundred parts produced within 24 hours on a single Origin Two, at a fraction of the cost of traditional manufacturing.

Origin enabled the production of a camera housing for a fraction of the time and cost of CNC Milling or other additive manufacturing platforms. Origin's throughput and open material network dramatically increase the number of applications for which additive is suitable.

	Origin Two	Jet Fusion	SLS	Other DLP	CNC Milling
Material:	**BASF Ultracur3D**	PA 12	PA 11	Rigid Urethane	ABS
Lead Time:	**< 2 Buisness Days**	5 Buisiness Days	4 Business Days	7 Business Days	11-15 Business Days
Typical Surface Roughness:	**2-3 (Ra) µm**	10.5 (Ra) µm	13.3 (Ra) µm	N/A	3.2 (Ra) µm
Cost Per Part:	**£6.41**	£ 41.61	£ 69.64	£ 80.13	£ 708.00
Total Cost of 100 Parts:	**£641.00**	£4,161.00	£6,964.00	£8,013.00	£70,854.00

Discover how Spectra Group **revolutionised their in-house product** development process

Stratasys' Origin range provided Spectra Group with unparalleled production efficiency for their critical communications systems. Utilising P3 technology, the 3D printers delivered high-quality end-use parts with industry-leading accuracy, consistency, and detail.

Watch the full case study >

Origin Two

Engineered for end-use production.

Elevating industrial 3D printing to a completely new level with unparalleled accuracy, proven repeatability, tight tolerances, and superb surface finish.

Matching injection molding precision, unavailable with other resin 3D printers, it enables short production runs and on-demand manufacturing for applications that require superior quality and high part performance. Combined with its broad range of high-performance materials in an open material system, it is the most advanced 3D printing solution for industrial production.

> “The first time capability is always good, the product is reliable and the products aren’t just for R&D or prototyping, we’re sending those parts into the field.”
>
> Simon Perrett, Head of Research and Development, Spectra Group

Origin Two from £267 per week*

*Indicative price for base machine only, subject to credit approval

Specification:

Machine Size:	500 x 520 x 1170mm
Build Envelope:	192 x 108 x 370mm
Achievable Accuracy:	up to +/-50 µm

Origin Two Materials:

Origin Two operates at 385 nm, a wavelength preferred by resins over 405 nm alternatives. It can successfully print a wide portfolio of materials for diverse end-use applications, ranging from high temperature to high-viscosity resins.

Achieve material properties like:

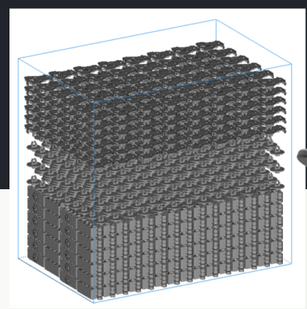
ULTEM
Nylon 6/6
ABS
Polyproylene
Flexible Rubbers
Delrin
Medical grade
Silicone
Ceramic

H350

Accurate, production-grade parts with best-in-class consistency.

Maximise process flexibility and boost your productivity.

Grow your part production business for a variety of industries and applications with a workflow you can fully control. Built for high-volume, short-run production, the Stratasys H350 3D printer gives you control of your materials, workflow, production and costs while delivering consistency and accuracy print after print.



H350 from £1,270 per week*

*Indicative price for base machine only, subject to credit approval

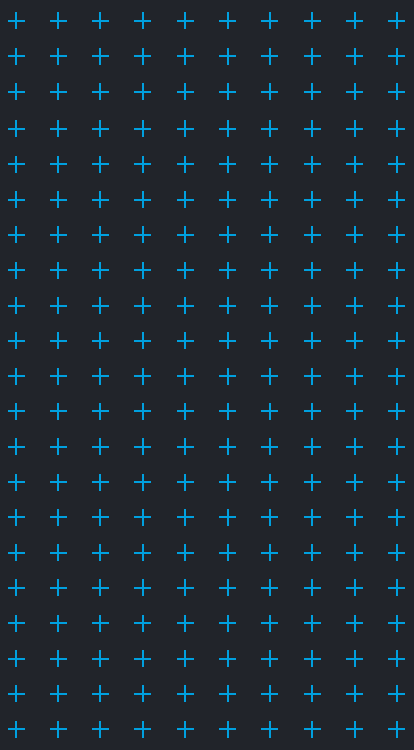
Specification:

Machine Size:	1900 x 940 x 1730mm
Build Envelope:	315 x 208 x 293mm
Layer Thickness:	from 100 microns

> “We are able to fit around 1000 parts onto the H350’s build tray. Importantly, this means that within 24 hours, we are able to produce the entire order, which is incredible.”
>
> Philipp Goetz, Owner, Goetz Maschinenbau

H350 materials range:

Nylon 11 (PA11)
Nylon 12 (PA12)
Polypropylene (PP)
SAF ReLife PA12



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