



# Flexible production of the most demanding applications

Expand production capabilities and shorten lead times with Origin® One

Get to market faster by converting parts to Origin One — manufacture on demand without inventory or retooling penalties.

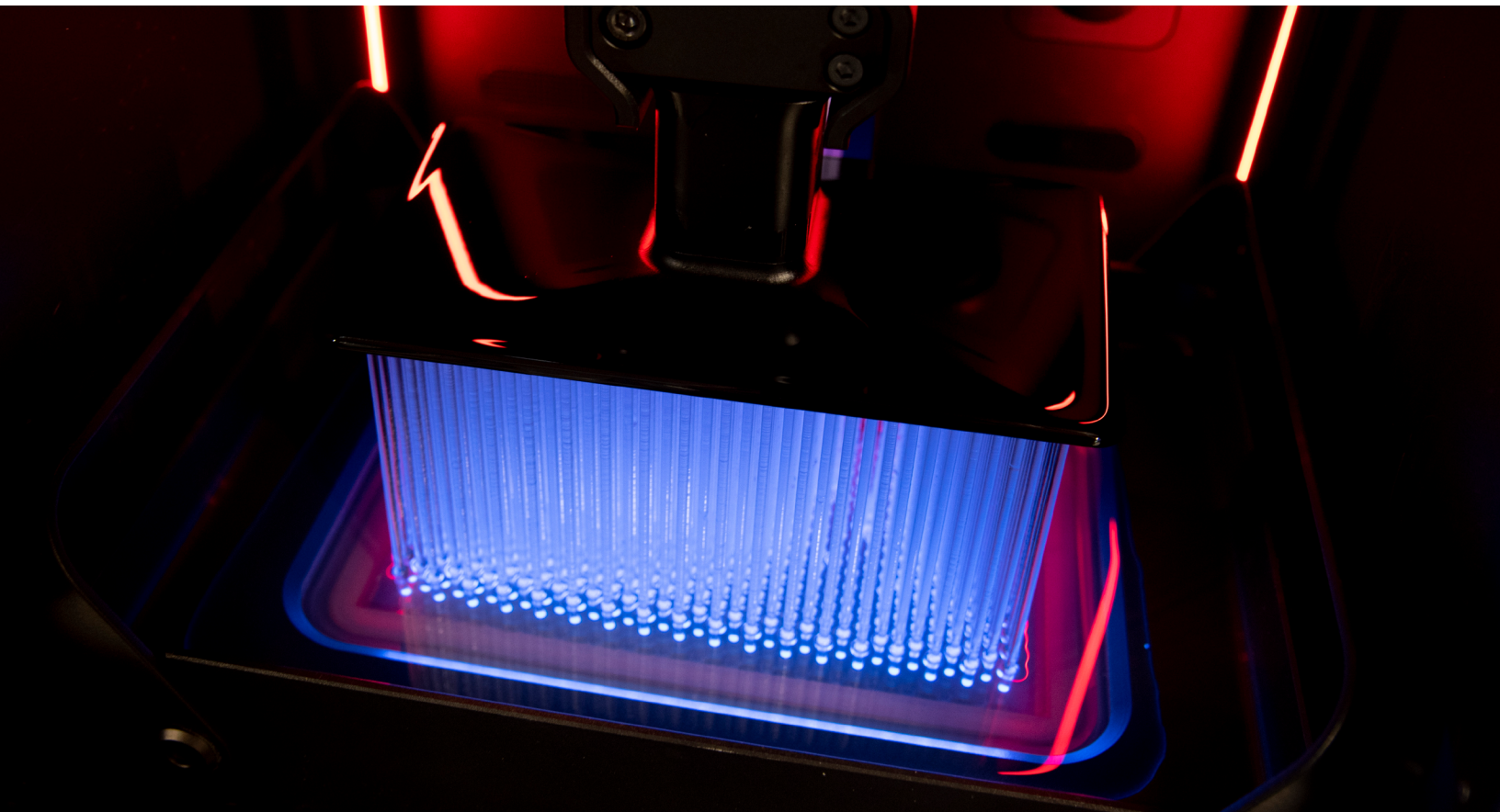
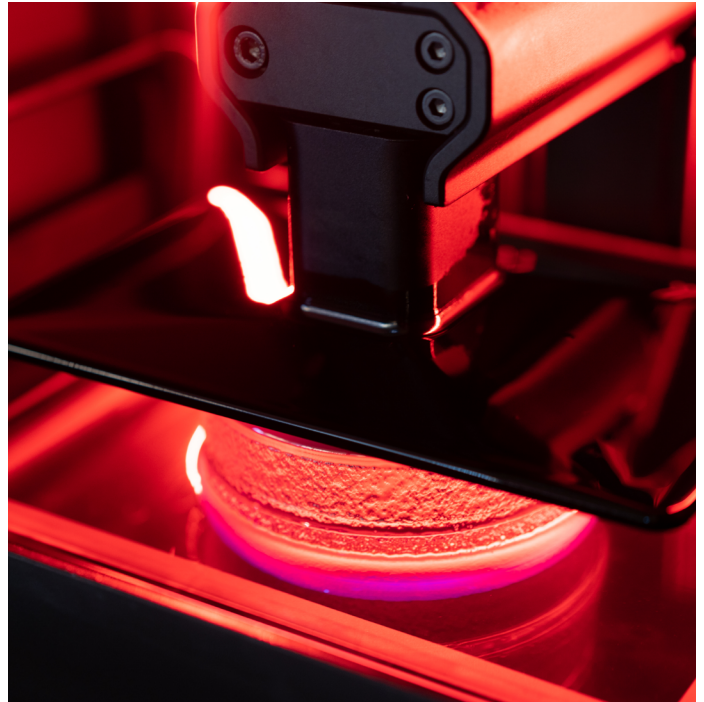


# Next-level part production starts here.

## Stratasys Origin® One

A transformative 3D printer enabling mass production of end-use parts in a diverse range of high-performance materials. Achieve industry-leading accuracy, consistency, detail and throughput with Programmable PhotoPolymerization P3™ technology. In situ analytics, combined with automatic pressure, separation force and temperature regulation, ensure the first part is the same as the last. See powerful product improvements over time, with over-the-air software updates that unlock new advanced materials and workflow optimizations.

High throughput, combined with best-in-class repeatability, helps you expand production without delays, so you can launch faster and respond flexibly to shifts in demand, while maintaining minimal inventory. Leverage the design freedom of 3D printing to reduce part count, simplify your workflow and improve product performance.

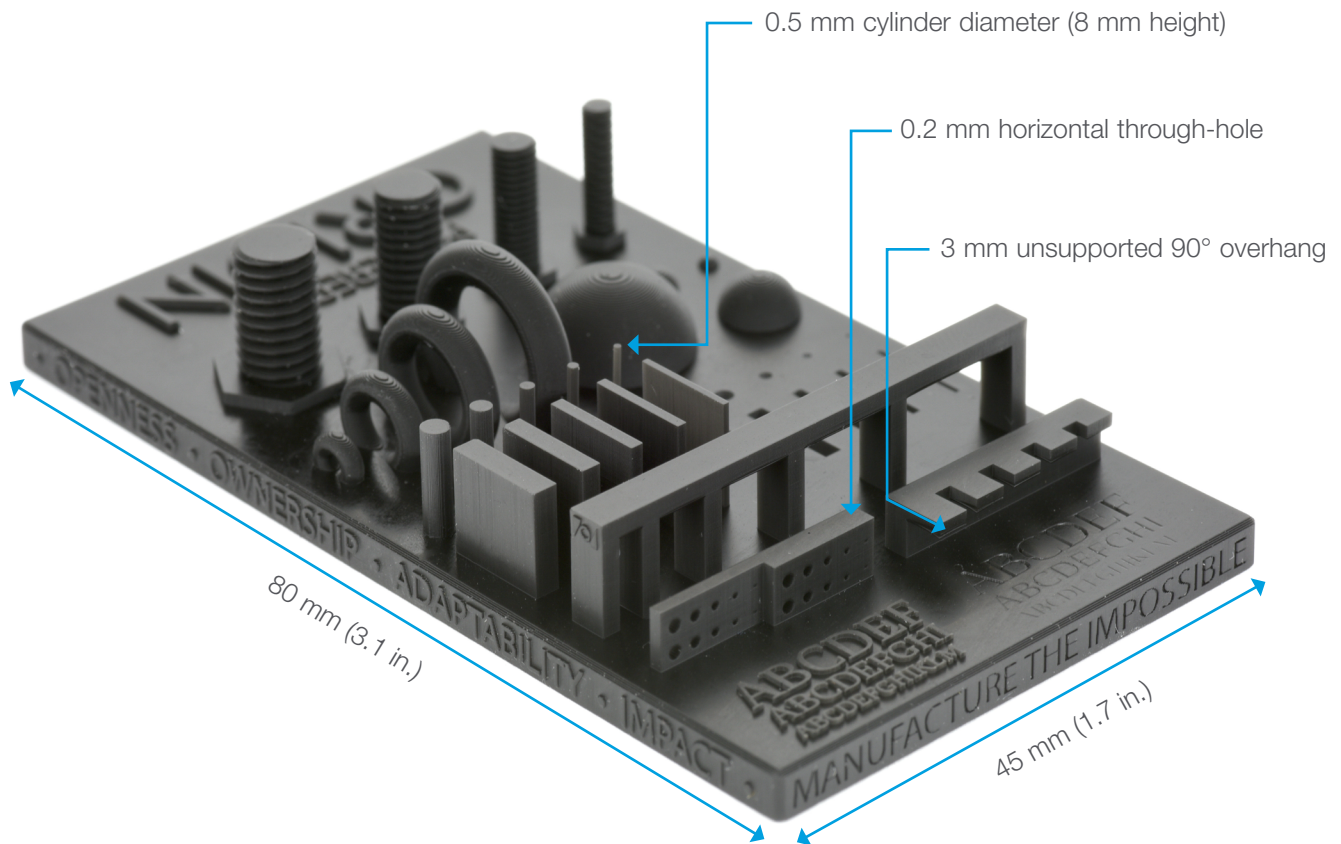




# A New World of Capabilities

The Stratasys Origin One, a manufacturing-grade 3D printer that enables mass production of end-use parts.

- P3 technology delivers exceptional accuracy, consistency and isotropy. Print details less than 50 microns in size with high-accuracy materials.
- Choose from a wide range of single-component, commercial-grade photopolymers, developed on and validated for Origin One. Resins are engineered to be easy to handle and rapidly post-processed, with long shelf lives.
- Smooth, beautiful surface quality without secondary finishing, sanding, painting or additional processing.
- An optimized build volume, compact footprint, and minimal power requirements enable manufacturers to efficiently maximize production capacity per sq ft.
- Simple and fast post-processing workflow, with minimal facility requirements, makes scaled production feasible.



# An expanding material ecosystem.

It takes an ecosystem to transform an industry. Stratasys works with leading chemical companies to co-develop innovative photopolymers in several categories to unlock end-use applications in 3D printing. Choose from a wide range of single component, commercial-grade materials, developed on and validated for Origin One.

**Heat-Resistant:** Materials for application-specific requirements, such as flame smoke and toxicity, HDT or mold durability.

**Tough:** Impact-resistant resins for functional applications that need to perform under stress and high-load conditions.

**General Purpose:** Fast-printing materials for end-use applications requiring cosmetic surfaces, fine features and high accuracy.

**Elastomers:** Resilient, high-resolution elastomers for applications requiring excellent tear strength or rebound performance.

**Medical:** Medically certified materials for devices where aesthetics, durability and biocompatibility are critical.

**Molds:** Low-pressure molds that produce high-quality results can be printed on site and as needed.





# GrabCAD® for Origin One

## Easy Printing of Production-grade Parts

GrabCAD Print for Origin One provides users with an easy-to-use build preparation solution that offers greater functionality and improves users' 3D printing workflow - yet is highly configurable.

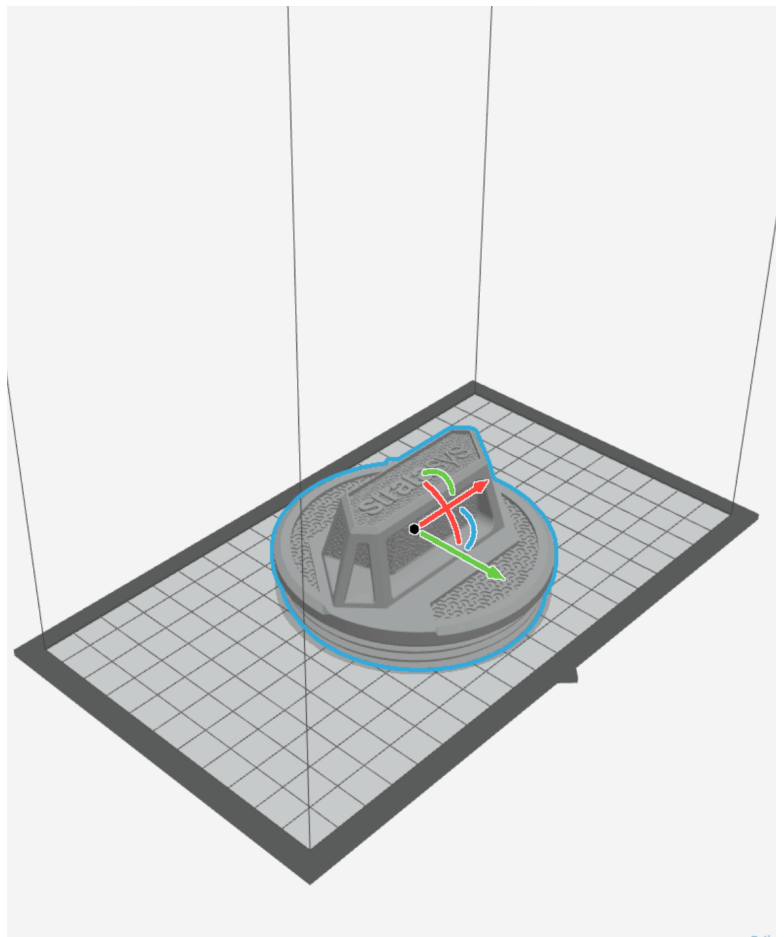
To simplify print job preparations and ensure successful outcome, GrabCAD Print for Origin One supports multiple 3D file formats and can arrange and orient parts on the build platform for automatic support generation and advanced slicing capabilities. Users can choose from pre-set print profiles -including for support generation - for the growing Origin library of validated materials (rigid, tough or elastomeric), or make their own support profile that suit their needs. This allows simplifying the preparation of print jobs and ensures successful outcomes without taking away control of a print job. And with the OpenAM™ for P3 license they can take control of GrabCAD Print even further.

### Reduce Prep Time For Printing Accurate, Quality Parts

- Automated Support Generation
- Optimize Part Accuracy
- Printer Monitoring
- Native CAD File Support

### Control Your Print Workflow

- Part Orientation, Placement, Slicing and Auto Fixing
- Print From Anywhere
- Highly Configurable
- Choose a Print profile from the Validated Materials Library
- Run Any Material You Want with the OpenAM License





From Fortune 500s to small job shops, early adopters of the Origin One have already produced hundreds of thousands of production parts across aerospace, defense, medical, automotive, footwear and molding industries, in nine different countries.

With Stratasys, customers benefit from a global support staff ready to assist, from professional installations to application guidance to on-site troubleshooting. Whether it's optimizing your print results, solving a problem or providing training, Stratasys service and support has the experience and reach to keep you operational.

To learn more about the Stratasys Origin One, see the specifications below. Or, contact a Stratasys representative by visiting [Stratasys.com/contact-us](https://www.stratasys.com/contact-us).



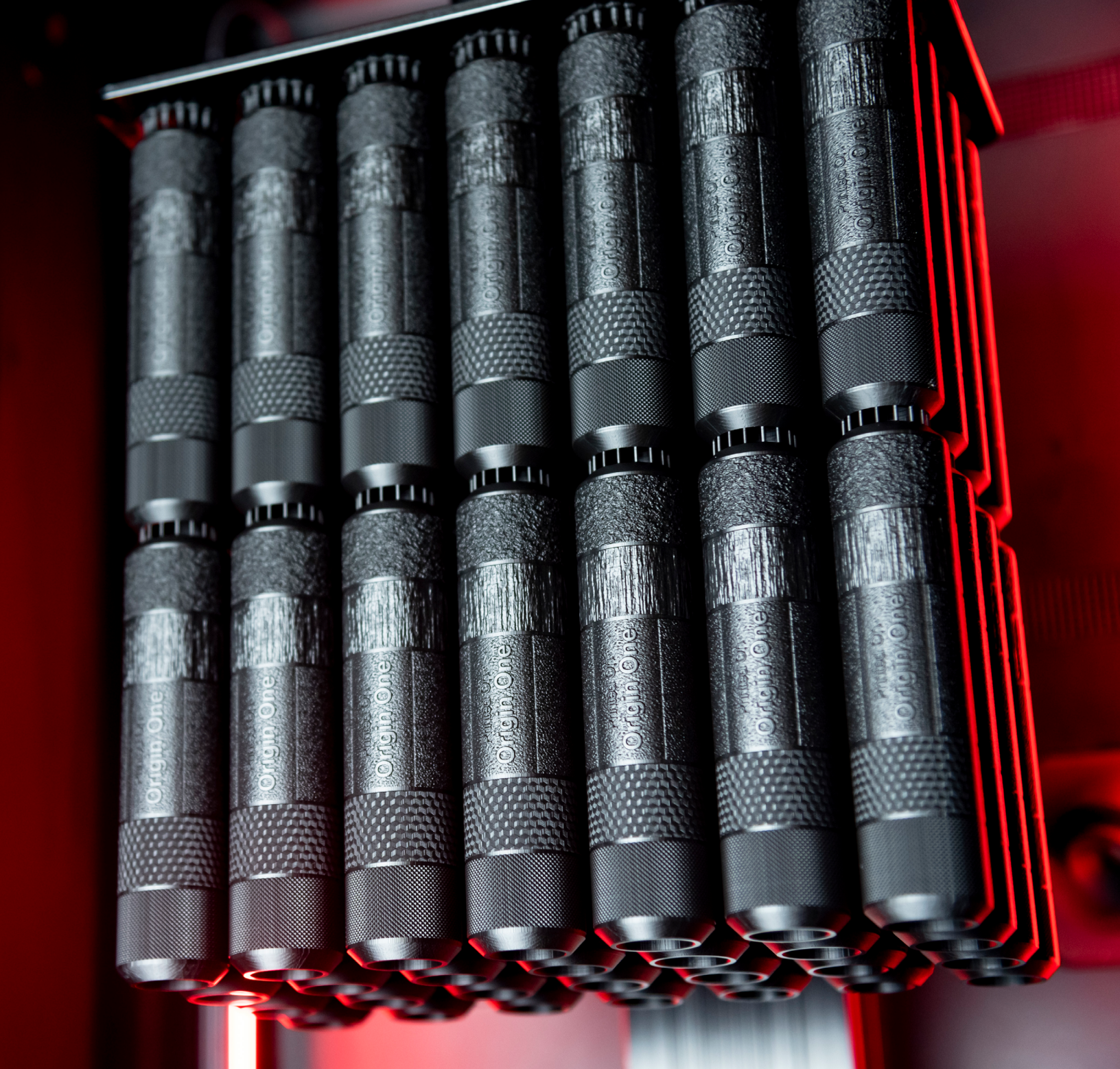
Stratasys Origin One parts are a combination of cosmetically appealing parts, with advanced material properties you don't typically see in 3D printed thermoset plastics. That's a winning combination for our clients and their production needs

Dan Straka  
**InterPRO President**



# Stratasys Origin<sup>®</sup> One

| General                |   |
|------------------------|---|
| Technology             | Programmable PhotoPolymerization P3™  |
| Materials              | Photocurable materials from Stratasys ecosystem material partners.<br>Refer to Stratasys website for an up-to-date selection.                     |
| Build Envelope (XYZ)   | 192 x 108 x 370 mm / 7,672 cm <sup>3</sup><br>(7.5 x 4.25 x 14.5 in. / 462 in <sup>3</sup> )<br>Maximum length on the diagonal — 220 mm (8.6 in.) |
| Minimum Feature Size   | Material and design dependent, as low as 50µm   |
| Resolution             | 4K light engine   |
| Process Energy         | UV (385nm) and thermal  |
| Pre-Print Software     | GrabCAD Print or optional 3rd party solutions   |
| Regulatory Compliance  | CE, FCC   |
| Physical Footprint     |   |
| System Size and Weight | 49.6 x 60.1 x 119.1 cm (19.5 x 23.6 x 46.8 in.)<br>84 kg (185 lbs.)   |
| Facility Requirements  |   |
| Power Requirements     | 100-120 VAC, 50/60Hz, 7.1A, 1 Ph or 200-240 VAC, 50/60 Hz, 3.5 A, 1 Ph  |
| Network Connectivity   | Ethernet / Offline connectivity available with Origin One Local   |
| Ventilation            | Refer to photopolymer material MSDS or contact Stratasys rep for guidelines.  |
| Operating Conditions   | Operating temperature 15°C to 30°C (59°F to 86°F)<br>Operating Humidity 30% to 70%  |
| Gas Exhaust (optional) | Facility exhaust  |
| Material Handling      |   |
| Resin Tray Capacity    | 2L  |
| Resin Storage Temp     | Typically 15°C to 30°C (59°F to 86°F)   |
| Security Features      |   |
| Printer Authentication | Cryptographically-secure handshake  |
| Network Security       | Industry-standard end-to-end encryption   |
| Optional Add-Ons       |   |
| On-Premise             | Origin One Local  |
| Air Extraction         | ProAero   |



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ISO 9001:2015 Certified

