

GrabCAD Streamline Pro™

Manage 3D Printing at Scale







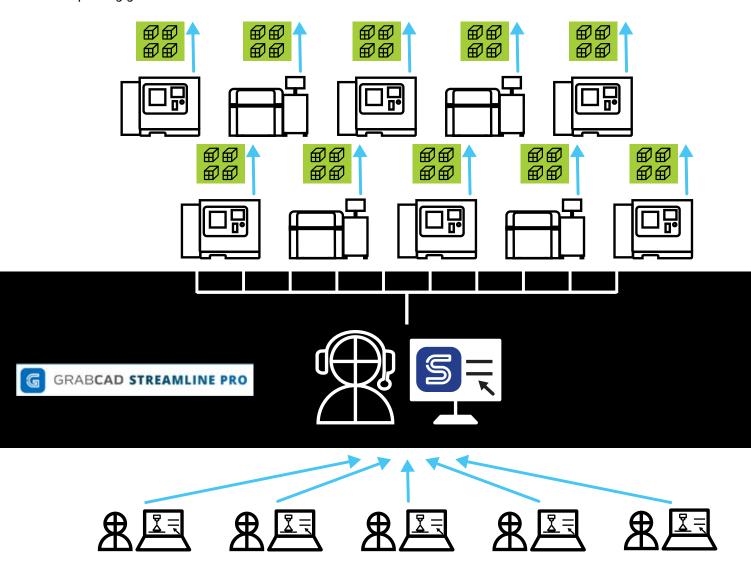
Connecting People, Parts and Printers to Scale 3D Printing

Remember when 3D printing was fast and easy with just one printer? As adoption of additive manufacturing grows, companies add more printers to meet rising demand. But more printers create complexity without better workflow management.

Requests pile up. Build queues grow. There's a lot more to manage with inventory, workflow and printer maintenance. Output flattens out instead of scaling linearly. Doubling printer capacity rarely doubles production. Why? It's a process problem, not a printer problem. More printers increases the workload to manage everything effectively. Manual processes become bottlenecks.

Built exclusively by Stratasys® for Stratasys printers, GrabCAD Streamline Pro™ solves the problem by connecting your workgroups and automating manual processes. It's an efficient organizer that prevents bottlenecks and maximizes utilization.

GrabCAD Streamline Pro integrates your entire network of Stratasys printers with simplified and automated workorder management capabilities, streamlining management of users and devices to maximize utilization and productivity — all in a secure environment. In short, the platform helps production scale linearly as your demand for 3D printing grows.





The Scaling Problem

Expectation:

Adding printers multiplies output linearly.

Reality:

Production does not double when you double printers. Output flattens as you add printers.

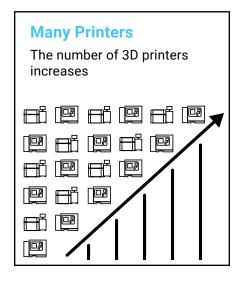
Reasons:

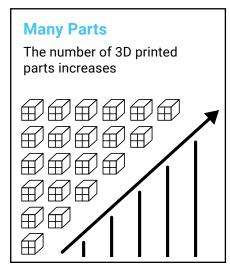
- More requests from more people increases labor hours and maintenance activities.
- · More printers equal more ramp up time.
- Print queues grow longer, increasing print time per part.
- · Without the ability to efficiently consolidate requests and builds, printer utilization decreases.

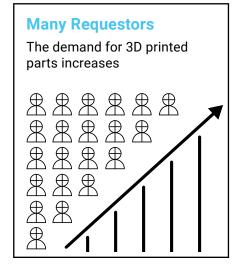
Additional challenges from growing demand for 3D printing include:

- Cybersecurity: security issues, including disruptions from unauthorized access and improper usage.
- Inefficient workorder management: lack of traceability and repeatability of orders, unexpected downtime.
- Tools: disconnected software applications require extra effort to properly manage 3D printing workflow, lack of analytics and notifications to efficiently manage production and gain business insights.

What does scaling 3D printing look like?









The Streamline Pro All-In-One Solution

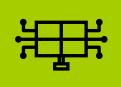
GrabCAD Streamline Pro is a software suite, powered by GrabCAD Print Pro™, that connects your workgroups, printers and parts for efficient workflow management — all essential elements to scale 3D printing. By consolidating multiple business applications into one platform, Streamline Pro is an affordable alternative to complex, disjointed and costly enterprise systems.

GrabCAD Streamline Pro seamlessly integrates with your Stratasys printers. It connects your workgroups and automates previously manual and disparate processes to manage and optimize your 3D print workflow.



Improved Productivity

- Faster printing
- · Improved printer utilization throughout the fleet and per each build
- Produce more parts with less operator time



Streamlined Software Workflow

- Automated workflow reduces manual tasks
- Avoids multiple systems and tools



Improved Cybersecurity

- Secure access to printers and software
- Prevent business interruptions
- Protect IP

GrabCAD Streamline Pro delivers the scalability you need as you add printers and increase 3D printing. This means that production scales linearly when adding printers.



Streamline Pro Platform Capabilities for Workgroups

Simplified Workorder Management

- Automates quoting, planning, request management
- Consolidates requests and prepares jobs automatically
- Reduces manual tasks by 30%-50%
- Accelerates part delivery

Effortlessly organize and manage the workorder process from request to delivery. Operator time is saved by automatically estimating parts and quoting orders. Automation eliminates manual bottlenecks so operators can deliver parts faster to requesters.

Increased User and Printer Cybersecurity

- · Secure printer access and connectivity
- Integrated firewall to protect against network vulnerabilities
- IPv6 support
- · Role-based access control
- Greater control over user onboarding and offboarding

Safeguard your printer fleet with controlled access, IP protection and secure data transmission. Prevent unauthorized access to printers and reduce business interruptions.

Robust Printer Management at Scale

- Real-time monitoring and analytics
- Printer utilization reports
- Custom dashboards show printer and material utilization, and printer performance
- Receive instant alerts of various events to ensure quick response and maximize printer uptime
- · Optimize production

With detailed data on printer status and use, quickly generate analytics to gain real-time insights and make smarter decisions. Dashboard alerts enable printer issues to be addressed quickly. Maximize uptime, optimize production and gain swift return on investment (ROI). Continuously improve performance based on actionable insights.

GrabCAD Streamline Pro
provides essential capabilities
to maximize the potential of
3D printing. The platform is
designed and priced for
workgroups ready to scale
production with an automated
workflow management platform.



Value and ROI of Streamline Pro

For companies scaling their additive manufacturing, GrabCAD Streamline Pro quickly provides positive ROI. By automating processes, streamlining workflow and improving asset utilization, the platform enables your existing printers to produce more parts each day with current resources. And importantly, the solution scales with your 3D printing operation — reducing the need for additional staff or excessive resources as you grow.

GrabCAD Streamline Pro yields significant savings from improvements in productivity, cybersecurity, and software workflow.

Efficiencies gained include improved productivity from reduced labor and manual tasks; less time spent generating and updating reports; enhanced interoperability and scalability from open APIs; fewer production delays and increased throughput from higher printer utilization and optimized build queues; less printer downtime due to inefficient or unauthorized printing reduced material waste.

Bottom-line Savings

Problems associated with scaling 3D printing can cost about \$80,000 annually when split across decreased productivity, inefficient and disconnected tools and process, cybersecurity incidents, and slow utilization growth.

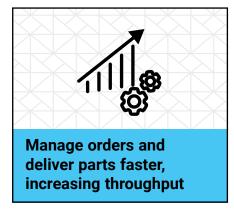
| Role | Challenges | Cost |
|--|---|---------------|
| Engineers and Designers | Delays getting parts | ≈ \$15k/yr |
| | Effort placing orders | |
| Shop Operators | Time managing orders | ≈ \$15-16k/yr |
| | Delays form inefficient tools and processes | |
| | Time mapping orders to trays | |
| | Failed build by unauthorized user | |
| IT Security | Internal or external cyber attack | ≈ \$1.5k/yr |
| | DDoS disruption | |
| Service Technician | Unplanned idle or down-time | ≈ \$5k/yr |
| Shop Managers | Slow utilization ramp-up | \$47k/yr |
| | Productivity decrease vs demand | |
| | Report creation | |
| | Total Potential Savings | \$83.5k |
| What if only 10% applies to you? (discount potential cost savings 90%) | | \$8.4k |
| Streamline Pro base price/printer | | \$2k |
| | ROI | 4+ |

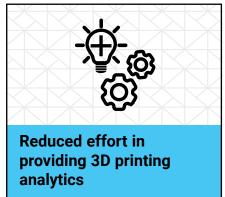


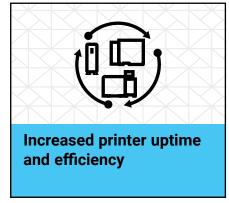
GrabCAD Streamline Pro yields savings of at least an hour per week (45 working weeks) per operator (\$45 per hour), resulting in per-printer savings with GrabCAD Streamline Pro of \$2000 per printer per year — which is the cost of the solution.

Using a cost basis of \$2,000 per printer per year for GrabCAD Streamline Pro, the solution generates an ROI of 4x per year, or a payback period of three months.









With workflow automation and improved asset utilization, GrabCAD Streamline Pro delivers strong ROI. It pays for itself while enabling workgroups to scale 3D printing output and achieve greater operating efficiencies and maximized revenue potential.

Scale your Stratasys Additive Manufacturing

As your organization continues to turn to Stratasys technologies for prototyping, tooling and production, rely on GrabCAD Streamline Pro to scale efficiently. With Streamline Pro, you can scale 3D printing linearly and capitalize on its full potential as a strategic asset for your business.

Gain visibility into production while improving labor productivity and 3D printing production output with streamlined software workflows, increased cybersecurity, and smarter decisionmaking. Reduce the effort required to generate analytics and receive better business insights from an aggregate view into additive manufacturing production.

The GrabCAD Streamline Pro platform delivers the essential capabilities you need to optimize processes, increase output and maximize assets. Automate workflows to print more parts without added labor costs. Manage orders efficiently and deliver parts faster, ultimately increasing your throughput and revenue potential.



FAQs

Is Streamline Pro a fully cloud-based offering?

No, many components of Streamline Pro require limited to no cloud connectivity. GrabCAD Analyze, which provides advanced analytics, dashboards and alerts, is an on-premise application. Shield is a hardware device that improves the security of the printers. GrabCAD Shop™ and the related automation features are the only fully-cloud components in Streamline Pro.

Why will customers with one or two printers need Streamline Pro?

Customers with 1-2 printers may have plans to increase utilization due to increasing demand, or have plans to scale 3D printing with new systems, or have limited staff to manage operations — Streamline Pro helps in all these instances.

Who will answer technical questions about Streamline Pro (re: setup, security, etc.)?

The GrabCAD software support and product teams are available for support, similar to other software products.

Is there a Streamline Pro Standard offering?

No. At this time, there is only Streamline Pro, the paid offering, at \$2000 per printer per year. Without Streamline Pro, customers will have access to current standard versions of GrabCAD Print™, GrabCAD Control and the Standard versions of Schedule and Reports.

What happens to GrabCAD Shop?

GrabCAD Shop will now be bundled with and sold only as part of Streamline Pro. It will not be sold separately. As a result, customers with Streamline Pro will be able to use all GrabCAD Shop features, for unlimited users, along with the new automation features. Shop customers will be upgraded to Streamline Pro and all their existing Shop data will be migrated over as well.

How do I get to Streamline Pro?

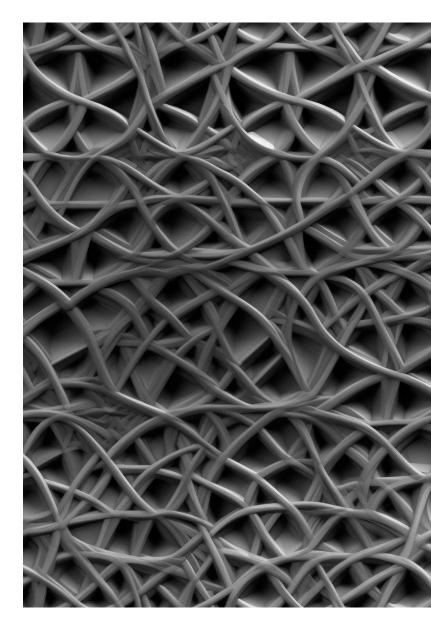
Streamline Pro features can be seen in GrabCAD Control, GrabCAD Shop, GrabCAD Print and GrabCAD Analyze. To get started, go to logical-actions, and follow the navigation to get to any one of these applications.



Start Your Streamline Pro Journey

Discover how GrabCAD Streamline Pro can add even greater value to your Stratasys 3D printing operations.

Visit https://grabcad.com/streamline-pro to learn more and get started. To see first-hand how Streamline Pro can automate your print workflow to scale production, schedule a live demo today!









HEADQUARTERS

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