stratasys | **alphacam**
SOLUTIONS FOR A 3D WORLD®

Advanced Capabilities for Origin P3™ DLP

GrabCAD Print Pro™ for Origin®

Premium Software Purpose-Built to Maximize Your Stratasys Investment
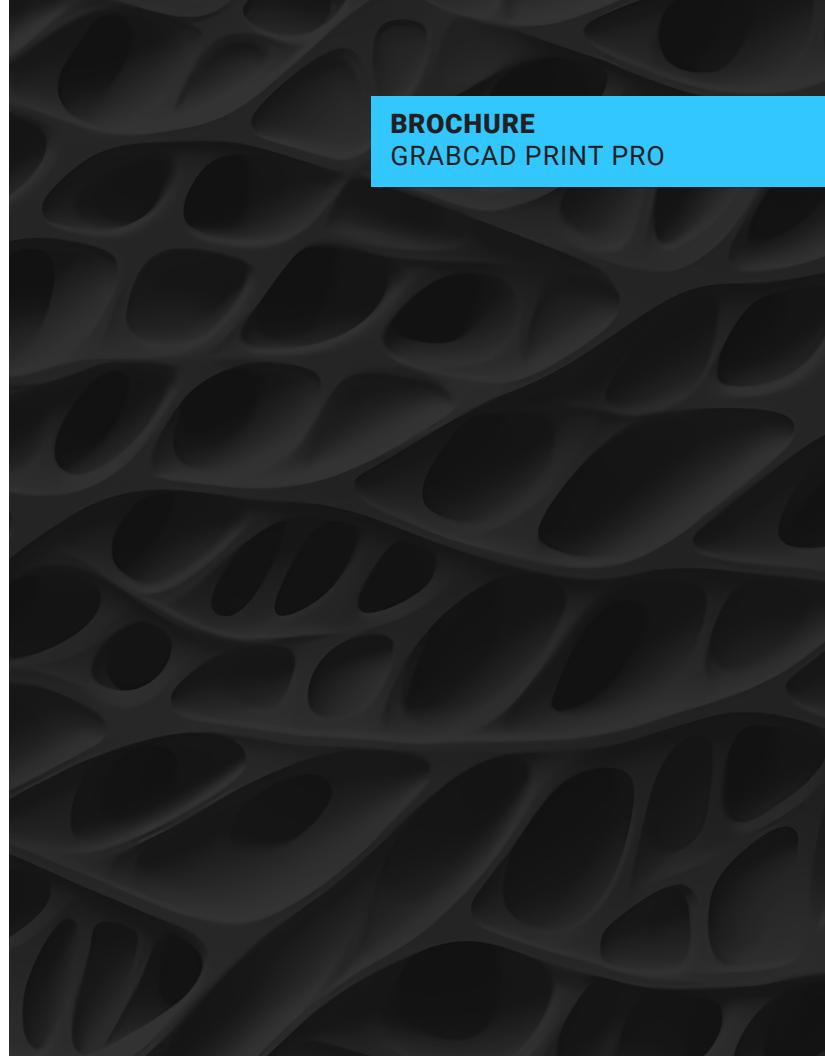
Elevate Your Production

GrabCAD Print Pro™ for Origin® takes additive manufacturing to the next level with powerful features specifically designed to enhance your production workflow. This premium software solution provides unmatched control, precision, and efficiency for Stratasys Origin P3™ DLP users who need to maximize output quality and production volume.

Key Premium Features

ADVANCED PRINTING CAPABILITIES/TOOLS

3D Stacking (Array)

Increase throughput and machine utilization by creating multi-layer arrays in X, Y, and Z axes. This powerful feature allows you to:

- Generate multiple copies with adjustable spacing for optimal packing density
- Visualize build volume usage with color-coded part placement indicators
- Automatically arrange parts for maximum efficiency with support strut optimization
- Achieve up to 24% faster printing times while maintaining quality

Raft & Brim Support

Improve build platform adhesion and easily remove parts with customizable raft and brim options:

- Address warping issues and stabilize models with small footprints
- Create strong foundations for complex geometries
- Adjust margin, thickness, and chamfer settings for optimal results
- Enable successful overnight and weekend batch printing

Labeling & Serialization Traceable End-use Parts Production

Add custom text directly to your parts with robust labeling features:

- Create embossed or debossed labels on any model surface
- Design label templates for automated serialization across batches
- Apply unique identifiers, part numbers, or tracking information
- Automatically increment serial numbers for production runs

Texture Library*

Enhance surface functionality with the comprehensive texture library:

- Apply gripping patterns, unique footprints, and functional textures
- Control scale, angle, and depth parameters for precise results
- Import custom bump maps for specialized applications
- Achieve consistent surface textures across production runs

*Available in release 1.103

Split Model

Produce parts larger than your build volume with intelligent splitting:

- Automatically create registration marks for precise reassembly
- Define custom split planes along X, Y, or Z axes
- Generate perfectly matched mating surfaces
- Enable the production of previously impossible large-scale parts
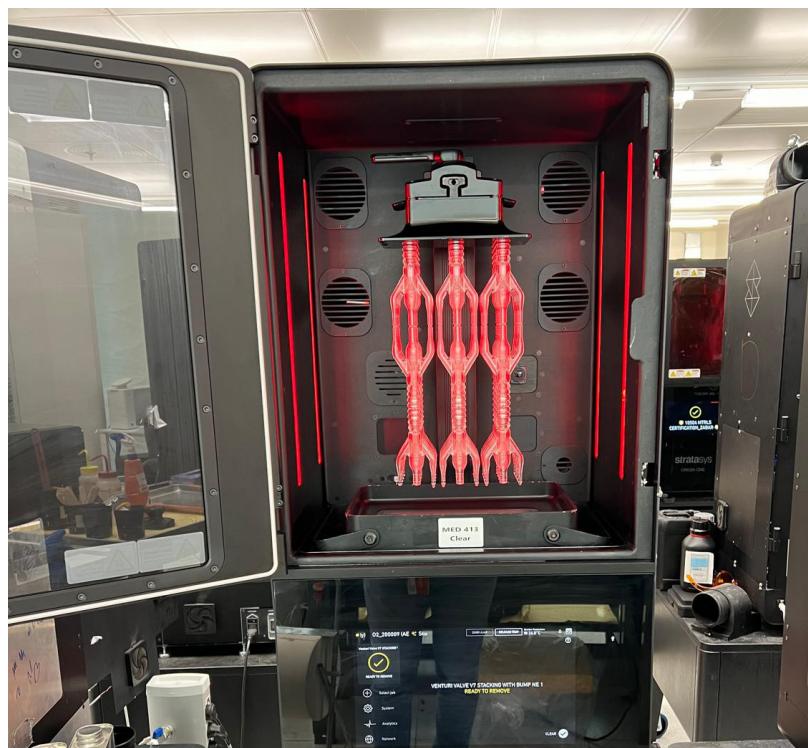
Key Premium Features

PRODUCTIVITY TOOLS

Advanced Cost Estimation

Make informed production decisions with detailed cost analysis:

- Calculate total costs including material usage, printing time, and labor
- Export detailed reports for customer quotations
- Track metrics across machine types and materials
- Analyze part-by-part production costs for batch optimization

Assembly Functionality

Combine multiple parts without requiring CAD modifications:

- Create tight arrangements for more efficient build volume usage
- Generate supports for assembled components as a single unit
- Dissolve assemblies back to individual parts when needed
- Optimize support structures for multi-part assemblies

Export Format

Seamlessly export your 3D models with complete support structures:

- Export to industry-standard STL and 3MF formats with full fidelity
- Preserve support structures in exported files for downstream processing
- Choose custom origin points for precise positioning in other applications
- Export multiple models as separate files for maximum workflow flexibility

APPLICATION VIEWER & ANALYSIS TOOLS

Accuracy Center (WAM)

Achieve unprecedented dimensional accuracy with Warp-Adjusted Models:

- Scan printed parts and compare to original designs
- Generate automatic adjustments to compensate for warping
- Track accuracy improvements across iterations
- Reduce the number of prints required to meet design specifications

Wall Thickness Analysis

Identify potential printing issues before they occur:

- Visualize areas below minimum resolution limits
- Choose between discrete (pass/fail) or continuous gradient display modes
- Set custom thresholds based on material properties
- Probe specific areas for precise thickness measurements

Industry 4.0 and APIs

Integrate with your manufacturing ecosystem:

- Connect to MES (Manufacturing Execution Systems) via open APIs
- Leverage partner plugins from AlphaSTAR, CASTOR, and Cognitive Design Systems
- Automate workflows with integration to production planning systems
- Enable complete digital thread tracking from design to production

Origin P3™ DLP Optimization

GrabCAD Print Pro is specifically optimized for Origin P3 DLP technology, providing features that maximize production capabilities:

Material Profile Control: Access to Origin's Open Materials License (OML) for developing custom material profiles.

Enhanced Slicing: Improved print preparation and part slicing specifically for P3 DLP technology.

Production Monitoring: Real-time printer status monitoring and enhanced scheduling.

Material Management: Create, manage and share material collections within your organization.

Streamlined Workflow Integration

Work Order Integration: Seamless connection with GrabCAD Shop for efficient workflow management.

CAD Compatibility: Direct import from popular CAD formats while maintaining color and texture data.

Remote Management: Monitor and control prints from anywhere via cloud connectivity.

Manufacturing Templates: Save and standardize printer settings for consistent production.
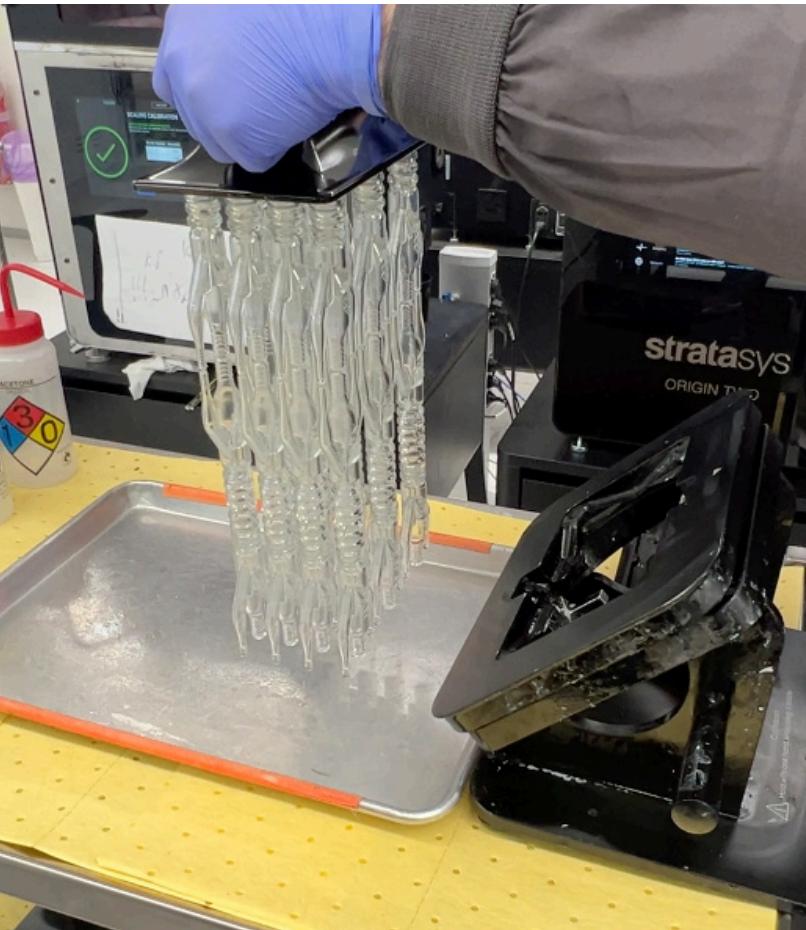
Start Maximizing Your Production Today

With GrabCAD Print Pro for Origin, you'll gain access to premium features designed to optimize your additive manufacturing workflow, reduce iteration time, and increase production efficiency.

Annual Subscription: $5,000 per user

Contact your Stratasys representative today to request a free trial and discover how GrabCAD Print Pro can transform your manufacturing process.

Compared to Standard GrabCAD Print

While standard GrabCAD Print offers essential functionality for basic 3D printing needs, GrabCAD Print Pro delivers advanced capabilities for production environments:

Feature	GrabCAD Print Standard	GrabCAD Print Pro
3D Stacking Array		●
Raft & Brim		●
Labeling & Serialization		●
Texture Library		●
Advanced Cost Estimation		●
Assembly Functionality		●
Split Model Feature		●
Accuracy Center (WAM)		●
Wall Thickness Analysis		●
Industry 4.0 APIs		●
Export as STL/3MF		●

HOME OF 3D PRINTING

alphacam GmbH
Erlenwiesen 16
D-73614 Schorndorf
Tel.: +49 7181 9222-0
info@alphacam.de

alphacam austria GmbH
Handelskai 92, Gate1 / 2. OG / Top A
A-1200 Wien
Tel.: +43 1 3619 600-0
info@alphacam.at

alphacam swiss GmbH
Zürcherstrasse 14
CH-8400 Winterthur
Tel.: +41 52 26207-50
info@alphacam.ch

alphacam
SOLUTIONS FOR A 3D WORLD®

alphacam.de
.at
.ch

stratasys.com
ISO 9001:2015
Certified

stratasys

BROCHURE
GRABCAD PRINT PRO