![stratasys]
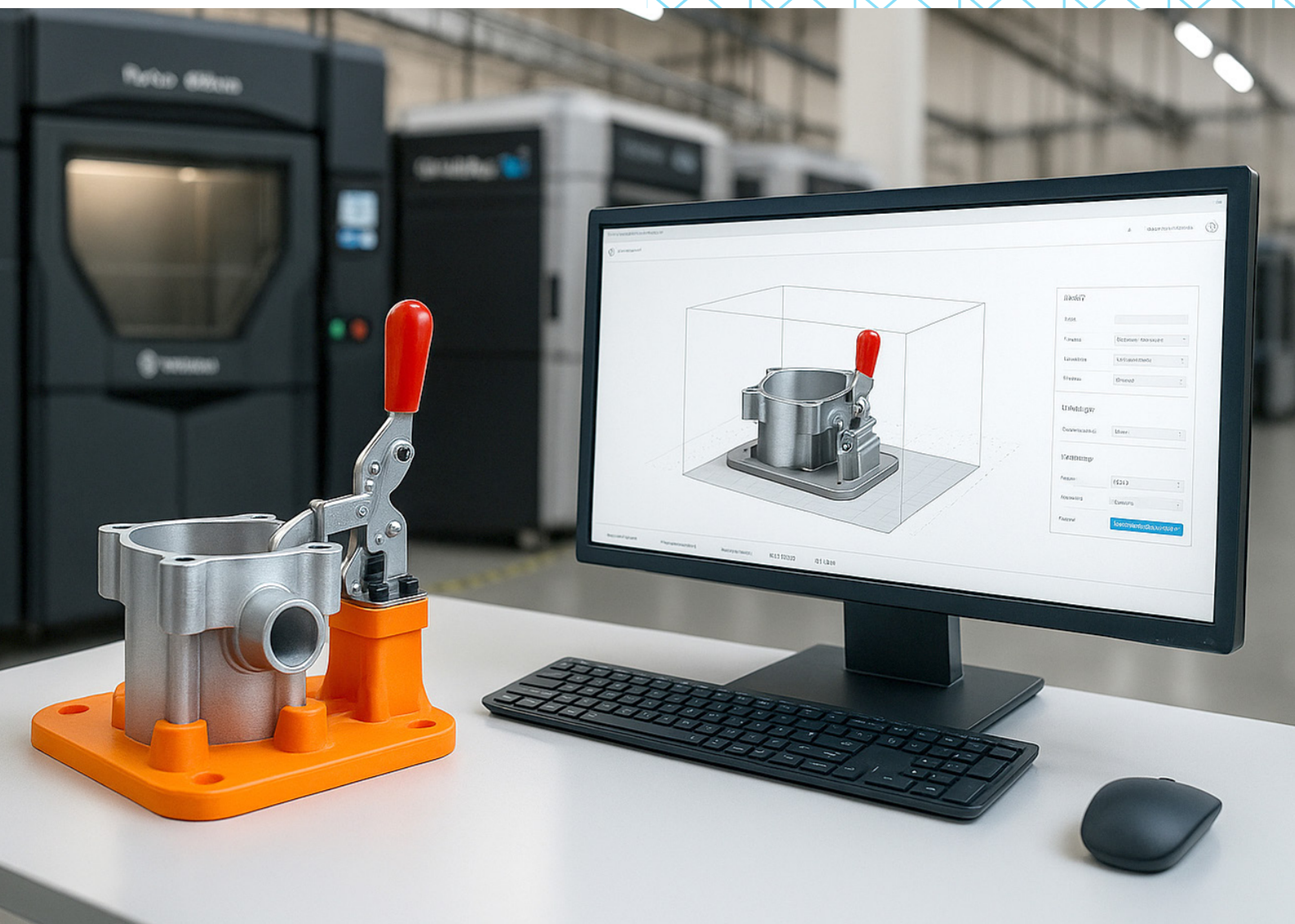
# GrabCAD Print Pro™

# Tool it.
# Print it.
# Own it.

- The most competitive and useful release for Stratasys machines to date.

- Advanced manufacturing control for production-grade additive manufacturing.

- Release 104 delivers 11 groundbreaking new features that consolidate your entire workflow into one powerful platform. From automated fixture design to advanced texturing and industry-leading technology support, GrabCAD Print Pro '25 transforms complex manufacturing processes into streamlined, accessible workflows.
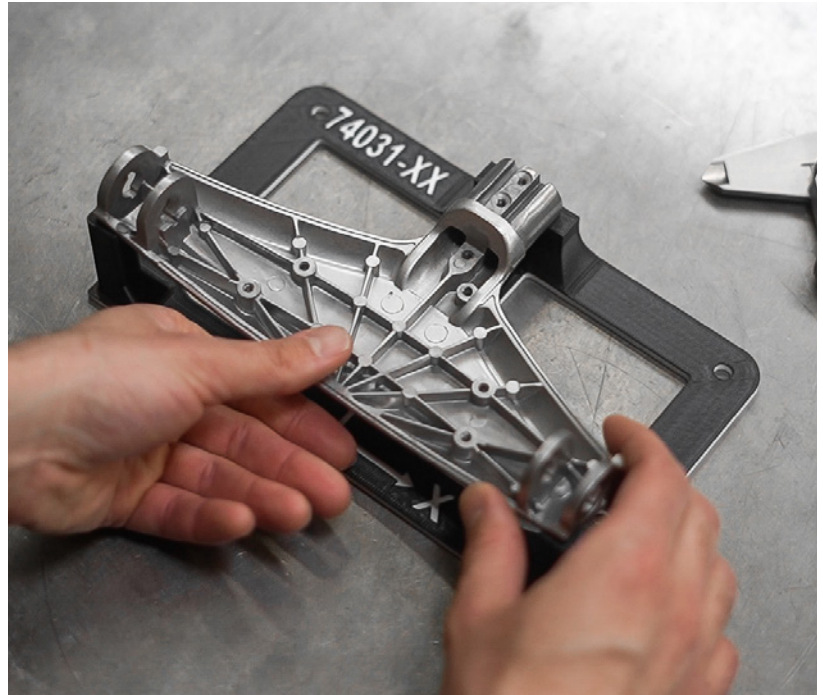
# Revolutionary fixturemate Integration

## Now Included at No Additional Cost

Design production fixtures in minutes without CAD expertise

The complete integration of fixturemate by trinckle eliminates engineering bottlenecks and directly addresses the skilled labor shortage facing manufacturers. Your AM operators can now design professional-grade tooling independently, reducing fixture design time by 80%.



### Real Customer Impact:

- **Setup time:** 3 hours → 20 minutes (85% reduction)
- **Fixture creation:** 2-3 days → 2-3 hours for manufacturing teams
- **CMM inspection:** 1+ hours → minutes vs traditional setup blocks
- **Early access customers:** 1-3 hours → 10-15 minutes fixture design time

### Complete Fixture Capabilities:

- **Assembly Fixtures** - Hold components during production operations
- **Welding Fixtures** - Ensure consistent positioning and weld quality
- **Inspection Gauges** - Custom go/no-go gauges for quality control
- **Machining Fixtures** - Secure workpieces for CNC operations
- **Measuring Fixtures** - Dimensional inspection and CMM setup tools
- **Carrier Trays** - Transport and organize components efficiently

### Simple 4-Step Workflow:

1. **Import Workpiece** - Use GrabCAD Print's powerful CAD compatibility
2. **Generate Support** - Intelligent automation creates optimal structures
3. **Configure & Customize** - Select clamps, set clearances, add hardware
4. **Export & Print** - Direct integration to your GrabCAD Print Pro project

"

The fixturemate integration has reduced our fixture design time from hours to minutes. The simplicity is remarkable – engineers and non-engineers alike can create professional fixtures without CAD expertise."

**Additive Manufacturing Lead**
Automotive Industry

# Industry-Leading
# Technology Support

First and only additive manufacturing software supporting
all five Stratasys technologies plus third-party printers

## Complete Stratasys Portfolio Coverage:

### FDM  (Fused Deposition Modeling



- Industrial thermoplastics for robust production parts
- Enhanced support tools with precise placement control
- Manufacturing Templates for consistent FDM workflows
- Advanced accuracy correction for dimensional requirements
- ABS-CF10, FDM® Nylon 12CF™, PC-ABS, and ULTEM™ filaments

### PolyJet  Multi-Material Jetting



- PANTONE® validated colors for precise color matching
- Digital material assignments simplified interface
- Multi-material fixtures with varying properties
- Complex assemblies with embedded components
- X-Rite color profiles for broader color accuracy

### SAF  (Selective Absorption Fusion)



- High-throughput production with advanced nesting
- 3D nesting algorithms for maximum build efficiency
- Ad-hoc and template labeling with automatic serial numbers
- Sinter box protection for fragile parts during de-powdering
- Production-grade Nylon 12 for end-use applications

### Neo Stereolithography (SL)



- Large-format printing for big tooling applications
- High-precision fixtures with excellent surface finish
- Advanced resin processing optimized for production
- Detailed part preparation for complex geometries
- Industrial resins for functional applications

### P3 DLP  (Digital Light Processing)



- Production-grade resin printing with speed and accuracy
- Full Pro feature support across all P3 capabilities
- Advanced slicing algorithms for optimal part quality
- Batch processing efficiency for high-volume operations
- Functional resins for end-use manufacturing parts

### Third-Party Integration:

- PBF nesting support for major non-Stratasys powder bed fusion brands
- Unified interface reduces operator training across printer types
- Universal file export (STL, 3MF) for any printer workflow
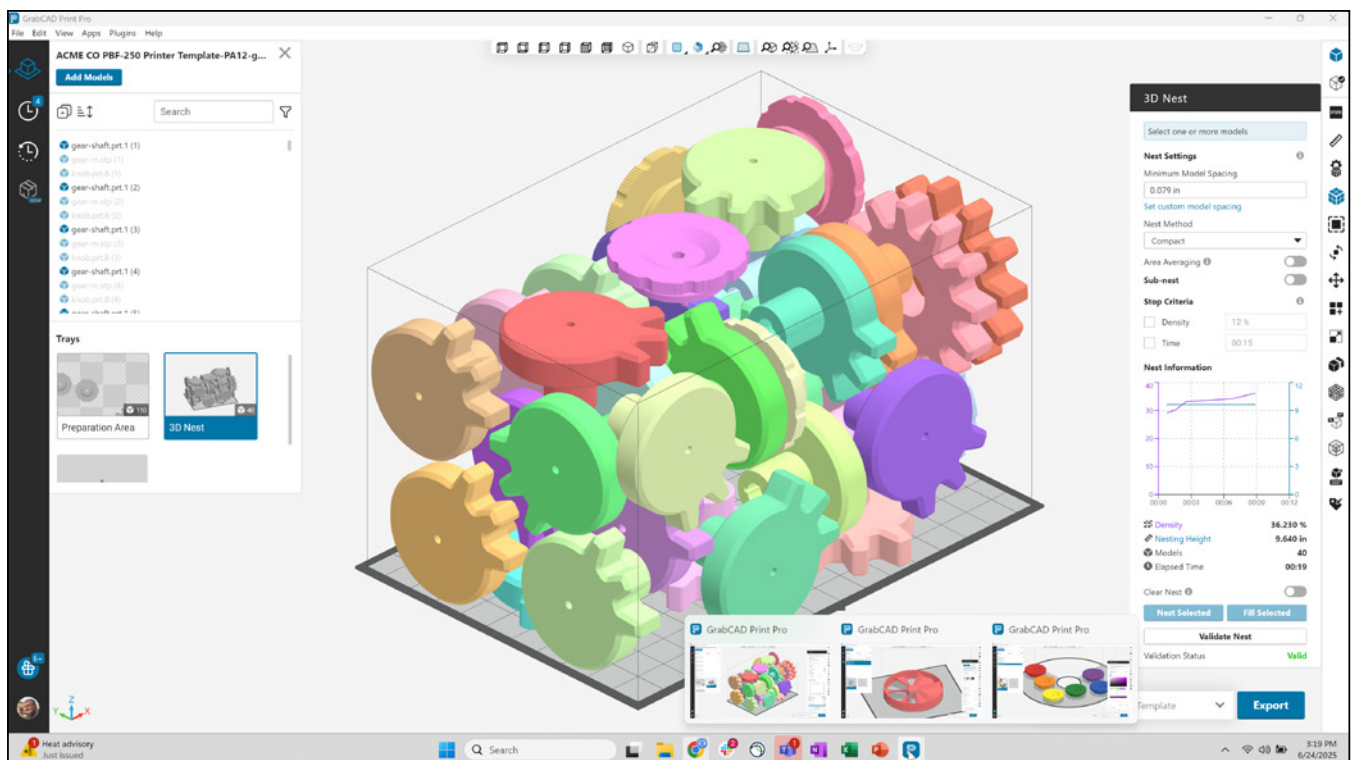- Multi-vendor environments supported with single software platform

# Advanced Manufacturing Features

## Workflow Consolidation - Replace Multiple Software Packages

**Traditional Workflow:** CAD Design → Magics Processing → Insight Preparation → Print Queue
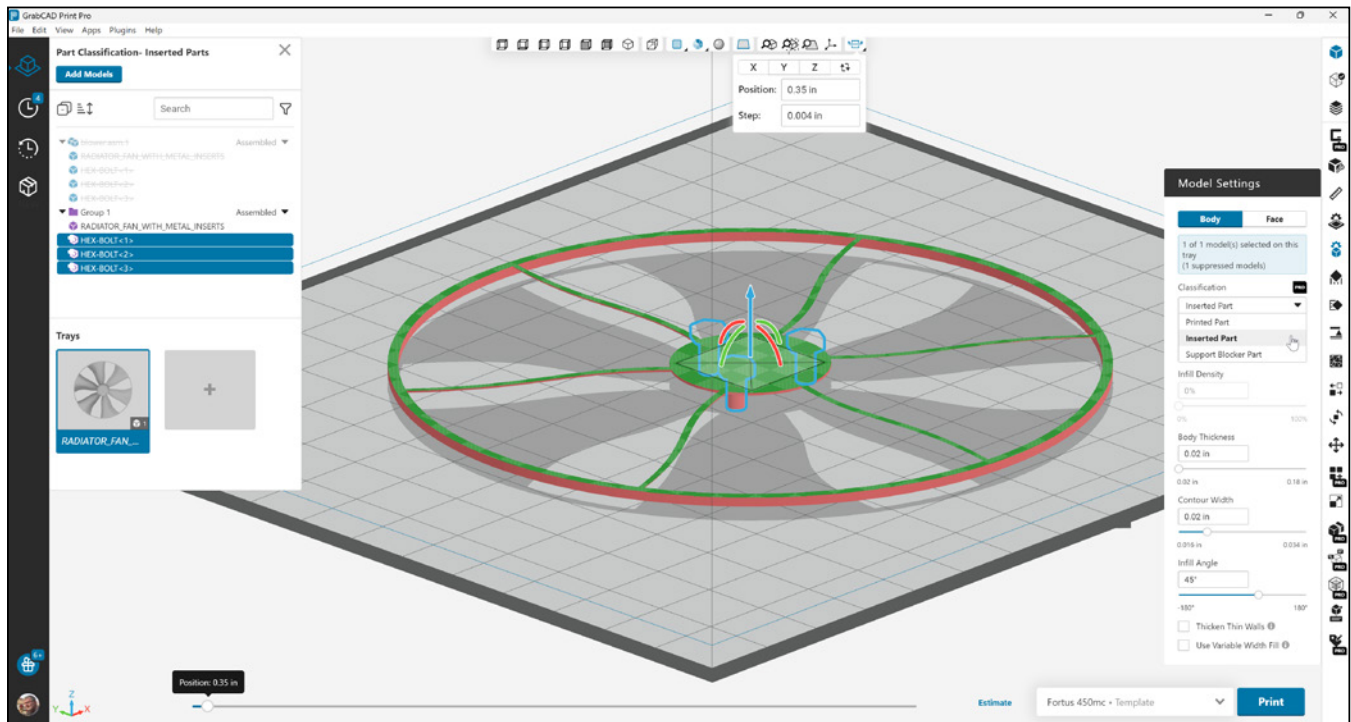**GrabCAD Print Pro '25:** One Unified Platform → Print



## Multiple Sessions

- Concurrent print preparation for higher throughput operations
- Parallel workflows across different technologies simultaneously
- Increased overnight/weekend production capacity
- Perfect for service bureaus running multiple printer types

## 3D Surface Textures

- Surface displacement mapping applied in just a couple of clicks
- Eliminates separate CAD work and massive file size challenges
- Functional texture enhancement for improved part performance
- Direct integration within GrabCAD Print Pro environment
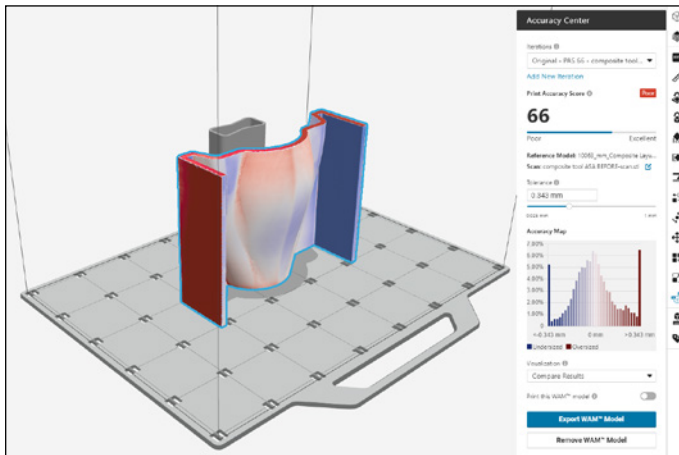
## Insert Part Functionality

- Advanced part manipulation for creating voids in assemblies
- Object insertion for complex multi-component designs
- Assembly preparation with precise component placement
- Design flexibility without external CAD modifications
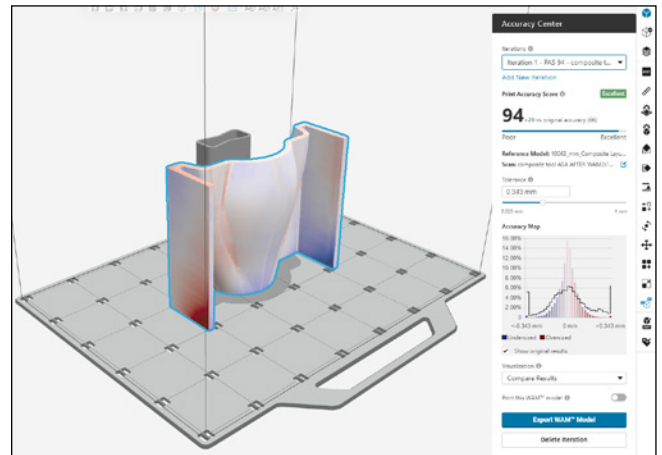
## Enhanced Support Tools

- Support Blocker for FDM printing with precise placement control
- Intelligent support generation with manual override capabilities
- Build analysis and pre-print issue identification
- Support optimization for material efficiency and print success

# Production-Grade Capabilities



**Accuracy Center Step 1:** Easily understand part warp and other deviations



**Accuracy Center Step 2:** Closed loop manufacturing for higher part accuracy with WAM

## Manufacturing Templates

- Save proven settings for consistent, repeatable results
- Standardize processes across your manufacturing team
- Reduce setup time for common job types
- Quality assurance through documented workflows

## Accuracy Center

- Automatic correction of print warpage using 3D scan data
- Use first print to correct subsequent prints 2-10,000
- Dimensional accuracy for functional prototypes and end-use parts
- Quality prediction and risk assessment tools

## Material Usage Estimation

- Per-part material tracking for accurate job costing
- Multi-part build analysis with individual consumption data
- Spreadsheet export for customer estimates and billing
- Inventory management support with precise usage data

## Offline Licensing

- Secure operation without constant internet connectivity
- IP protection for sensitive manufacturing environments
- Local installation with enterprise-grade security
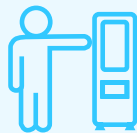- Compliance ready for aerospace and defense requirements

# Target Markets
## & Applications

### Manufacturing & Automotive

- Rapid tooling creation without engineering bottlenecks
- Production fixture automation addressing skilled labor shortage
- Quality control tooling with custom inspection gauges
- Assembly line efficiency with optimized fixture design

### Service Bureaus & Contract Manufacturing

- Multi-technology operations with unified workflow management
- Concurrent job preparation for higher throughput
- Customer cost estimation with detailed material tracking
- Technology flexibility supporting multiple printer brands

### Aerospace & Defense

- FIPS environment compatibility for government requirements
- Compliance and documentation tools for regulated industries
- Precision tooling for critical component manufacturing
- Secure offline operation protecting sensitive designs

### Medical Device Manufacturing

- Custom fixture design for device assembly operations
- Precision measurement tools for quality validation
- Biocompatible materials supported across technologies
- Rapid prototyping to production tooling workflows

# Why Choose
# GrabCAD Print Pro?

## Platform Approach to Additive Manufacturing

- 75% of target market already uses GrabCAD Print Standard
- Complete Stratasys integration across all printer technologies
- Open ecosystem supporting third-party equipment
- Future-proof investment with regular capability updates
- Industry leadership in unified additive manufacturing software

# Proven ROI
# & Customer Success

## Operational Efficiency Gains:

- 80% reduction in fixture design time (from days to hours)
- Consolidation of 4+ software packages into single platform
- Reduced training requirements with unified interface
- Increased printer utilization through advanced workflow tools

## Cost Structure Improvements:

- Eliminated CAD licensing for routine fixture design
- Reduced engineering time on low-value tooling tasks
- Faster production setup with optimized fixture deployment
- Scalable operations without proportional software cost increases

## Quality & Consistency Benefits:

- Standardized processes through Manufacturing Templates
- Improved part accuracy with advanced correction tools
- Reduced scrap rates through pre-print validation
- Consistent fixture quality with automated design tools

> "
>
> GrabCAD Print Pro '25 represents our commitment to software innovation that addresses real manufacturing workflow challenges. By integrating fixture design capabilities directly into our platform, we're not just providing tools – we're addressing the skilled labor shortage that's impacting manufacturers across every industry."
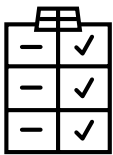>
> **Victor Gerdes**
> VP of Software
> Stratasys

# Ready to Transform
# Your Manufacturing?

Experience the power of unified additive manufacturing software with GrabCAD Print Pro '25

## Next Steps:

Start 30-Day Free Trial - Complete access to Release 104 features

Join our Monthly Office Hour - See fixturemate and advanced features in action

Download Technical Specs - System requirements and compatibility guide

## Additional Resources:

- **fixturemate Capabilities** - Dedicated fixture design automation guide
- **Technology Compatibility** - Complete printer and material support matrix
- **Customer Success Stories** - Real manufacturing transformation examples
- **Training & Certification** - Comprehensive learning resources

## Support & Contact:

**Technical Support:** print@grabcad.com

**Sales Inquiries:** Contact your local Stratasys representative

**Training Resources:** Complete documentation and video tutorials available

GrabCAD Print Pro '25 (Release 104) - Available Q3 2025
First and only additive manufacturing software supporting all 5 Stratasys technologies plus third-party printers
trinckle empowers automotive, manufacturing, and medical industries with advanced design automation software. For more information, visit trinckle.com

**stratasys**

**BROCHURE**
GRABCAD PRINT PRO