



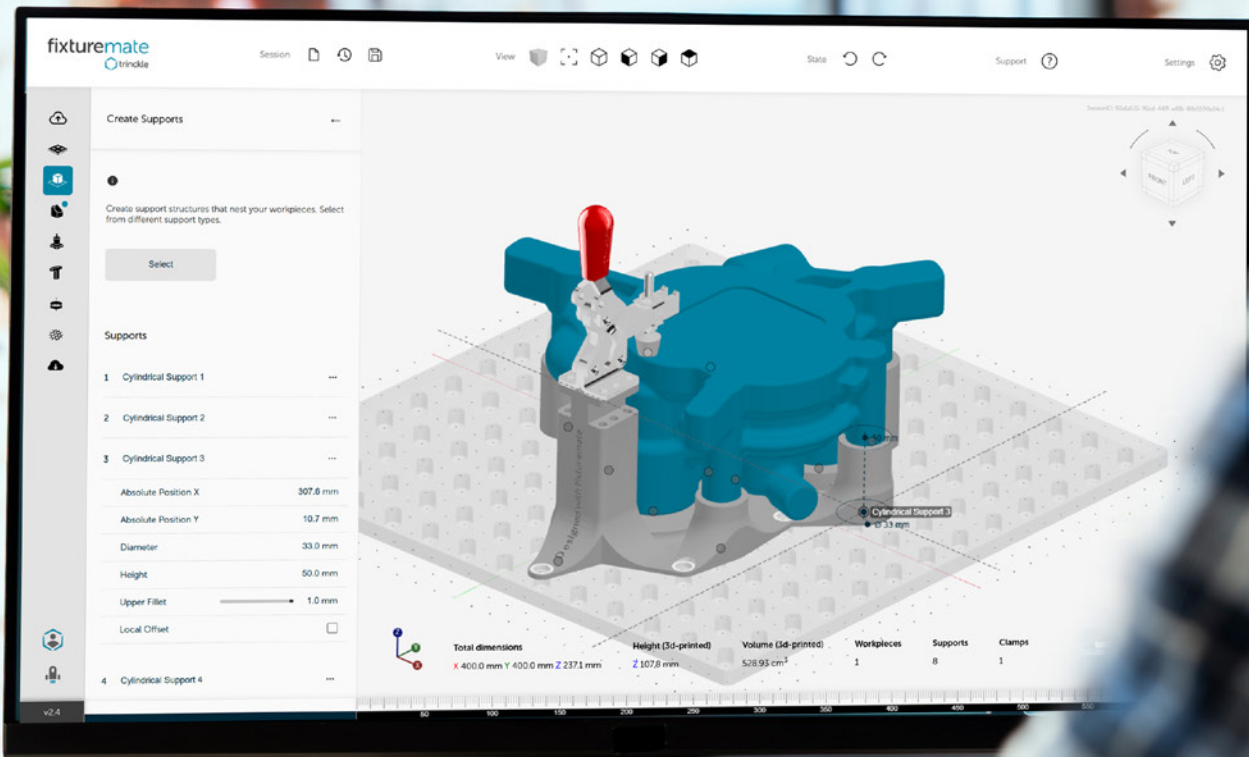
**BROCHURE  
SOFTWARE**

# fixturemate by trinckle + GrabCAD Print Pro

Automated Fixture Design  
for Manufacturing Operations



- Address the skilled labor shortage with production tooling automation
- Eliminate engineering bottlenecks and reduce fixture creation time by 80% with automated design tools that enable your AM operators to create professional-grade fixtures without CAD expertise or expensive software licenses.







# Manufacturing Challenge: Engineering Bottleneck

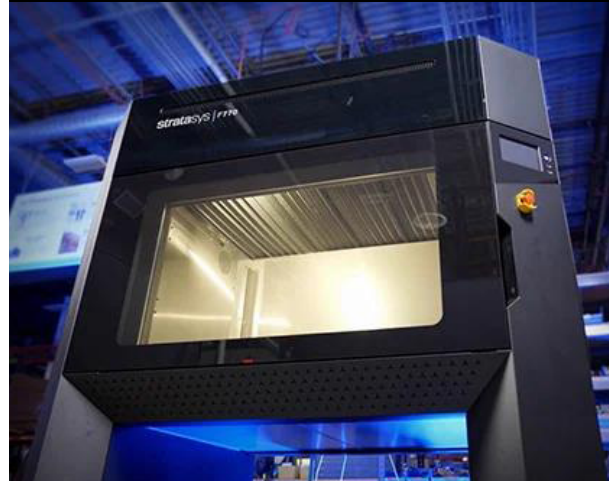
## The Problem:

- Skilled labor shortage affects 80% of manufacturers
- 2-3 day wait times for routine fixture design
- CAD expertise required for simple tooling needs
- Engineering resources tied up on low-value tasks
- Multiple software licenses increase operational costs

## The Solution:

Wizard-style fixture design integrated directly into GrabCAD Print Pro

## The Potential ▼



## The Bottleneck ▼



# Proven Manufacturing Results

## Automotive Supplier Case Study:

**Before:** Manufacturing engineer required 2-3 days for custom inspection fixture

**After:** AM operator completes fixture design in 2-3 hours using fixturemate

**Result:** 80% time reduction, eliminated engineering dependency

## CMM Inspection Operations:

**Before:** CMM setup using traditional blocks took 1+ hours

**After:** fixturemate-designed fixtures reduce setup to minutes

**Result:** Dramatically improved inspection throughput

## Production Tooling:

**Before:** 3-hour setup times for fixture deployment

**After:** 20-minute setup with fixturemate-designed fixtures

**Result:** 85% reduction in fixture deployment time



# Complete Fixture Design Capabilities

## Production Tooling Applications:

- **Assembly Fixtures** - Consistent component positioning for production lines
- **Welding Fixtures** - Repeatable part alignment for quality welds
- **Inspection Gauges** - Custom go/no-go gauges for quality control
- **Machining Fixtures** - Secure workholding for CNC operations
- **Measuring Fixtures** - Dimensional inspection and CMM setup
- **Carrier Trays** - Component transport and organization

## Design Time:

Under 20 minutes from concept to print-ready

## No CAD Required:

Wizard-style interface for manufacturing technicians

# ROI Analysis for Manufacturing Operations

## Labor Cost Savings:

- Eliminate engineering time for routine fixture design
- Reduce fixture lead times from days to hours
- Free up skilled engineers for higher-value design work
- Enable cross-training of AM operators on tooling design

## Operational Efficiency:

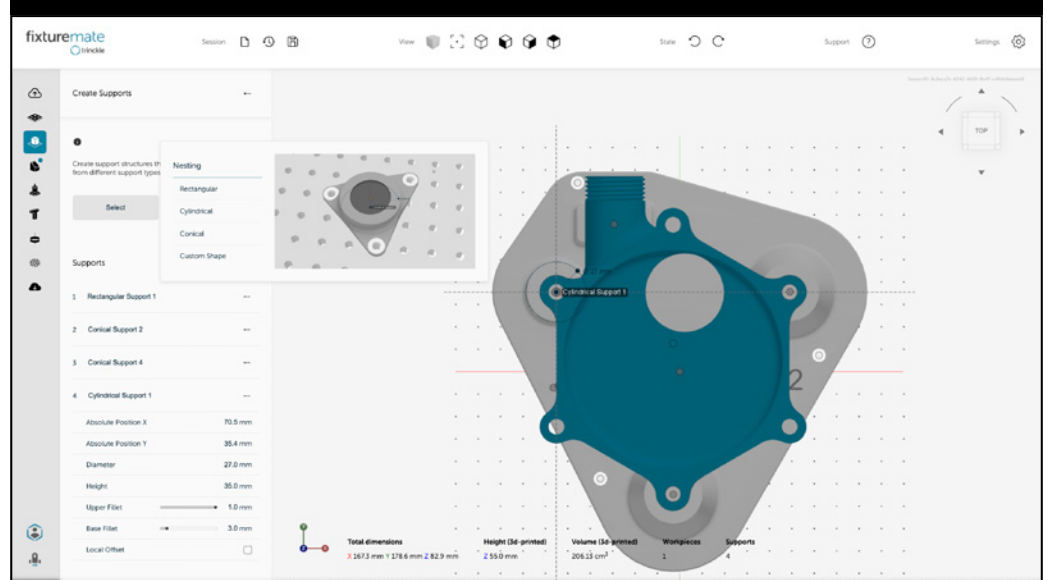
- Faster production setup with optimized fixture design
- Reduced downtime waiting for custom tooling
- Improved part quality with precision fixture positioning
- Scalable tooling production for varying batch sizes

## Cost Structure Impact:

- No additional software licensing - included with GrabCAD Print Pro
- Reduced CAD software needs for routine tooling
- Lower training costs with intuitive interface
- Faster ROI through immediate productivity gains

### Simple 4-Step Process:

## Import Workpiece - Use existing CAD files or scan data

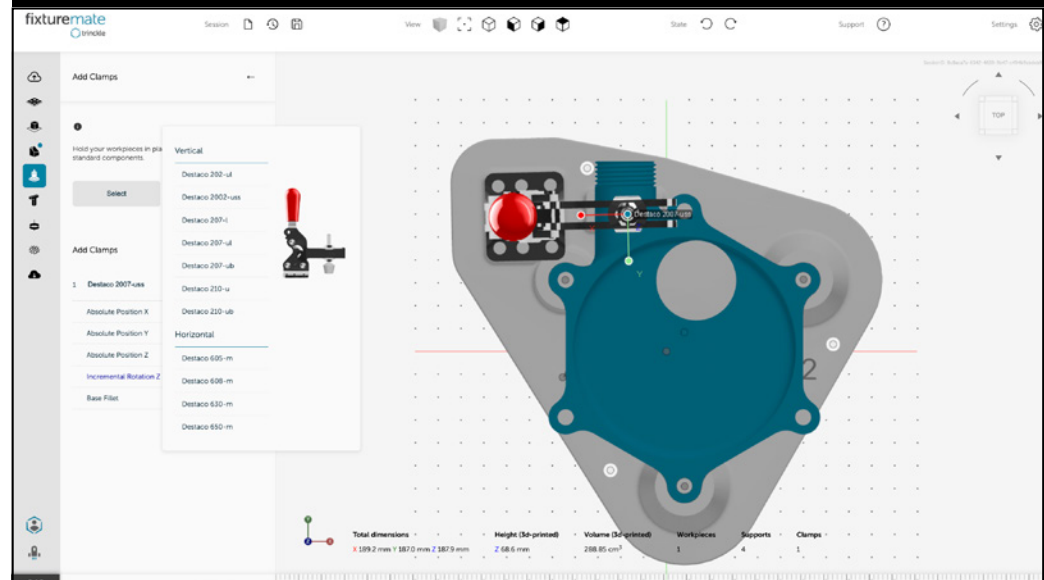






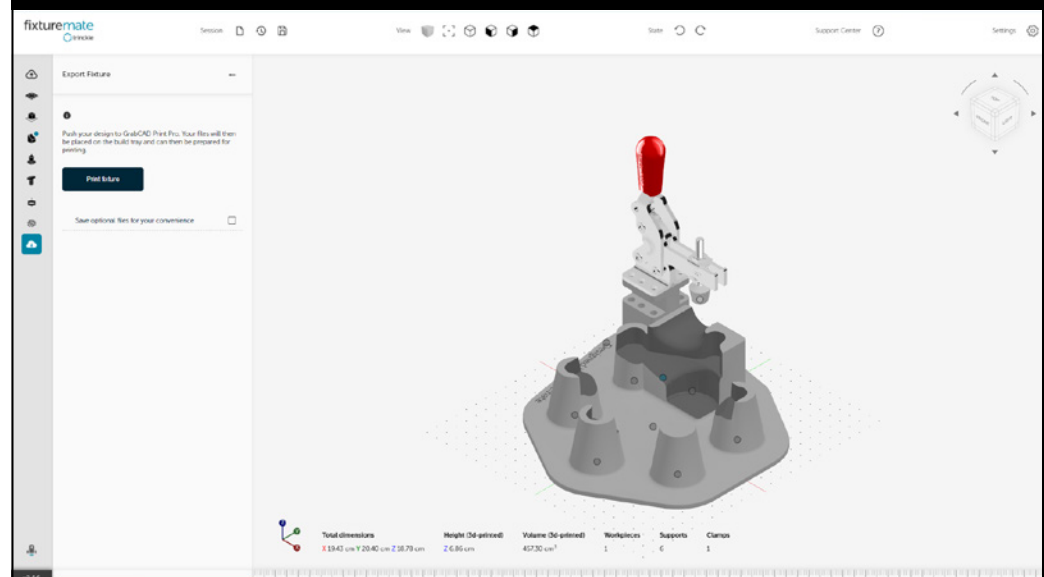
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### Configure Clamps - Select from built-in hardware library



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### Export & Print - Direct integration to GrabCAD Print Pro workflow



### Manufacturing Environment Features:

- **Offline Operation** - No cloud connectivity required for IP security
- **Local Installation** - Runs entirely on your manufacturing computers
- **Multi-Language Support** - Available in English, German, Simplified Chinese
- **Enterprise Security** - Integrated with GrabCAD Print Pro security features



# Material & Technology Compatibility

## Industrial-Grade Materials:

- **ABS-CF10** - Carbon fiber reinforced for high-strength applications
- **Nylon 12 CF** - Chemical resistance and dimensional stability
- **TPU 92A** - Flexible fixtures for delicate components
- **PolyJet Resins** - Smooth finish for precision applications

## Production Technology Support:

- **FDM** - Proven reliability for manufacturing tooling
- **SAF** - High-throughput production of fixture components
- **P3 DLP** - Precision fixtures with excellent surface finish
- **PolyJet** - Multi-material fixtures with varying properties

# Implementation & Support

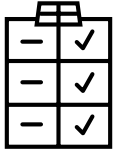
## Getting Started:

- **Included with GrabCAD Print Pro** - No additional licensing costs
- **30-day free trial** - Full feature evaluation (available Q3 2025)
- **Direct technical support** - GrabCAD Print customer success team
- **Training resources** - Complete documentation and video tutorials

## Transition Planning:

- **Existing trickle customers:** Contact Stratasys for transition support
- **New implementations:** Seamless integration with existing workflows
- **Team training:** Intuitive interface requires minimal CAD knowledge





# Next Steps for Manufacturing Teams?

Ready to eliminate fixture design bottlenecks and address skilled labor shortages?

## Evaluate fixturemate:

[Join our Monthly Office Hours](#) - See real fixture design in under 20 minutes

[Start GrabCAD Print Pro Trial](#) - Full access including fixturemate (Q3 2025)



## Questions?

Technical Support: [print@grabcad.com](mailto:print@grabcad.com)

Manufacturing Consulting: Contact your Stratasys representative

fixturemate integration available Q3 2025 with GrabCAD Print Pro  
trinkle empowers automotive, manufacturing, and medical industries with advanced design automation



**stratasys.com**  
ISO 9001:2015  
Certified



### HEADQUARTERS

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