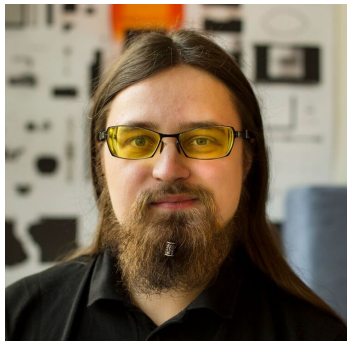


# SLA Applications in Engineering: Advancing from Prototyping to Production

# Who we are

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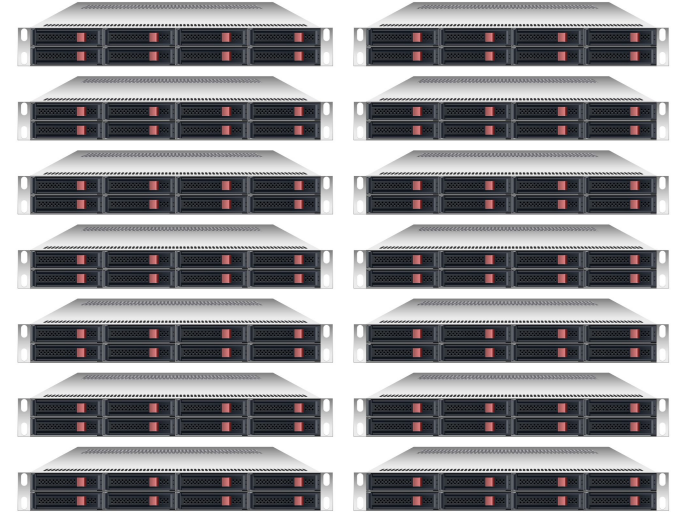
Jakob Dobberow

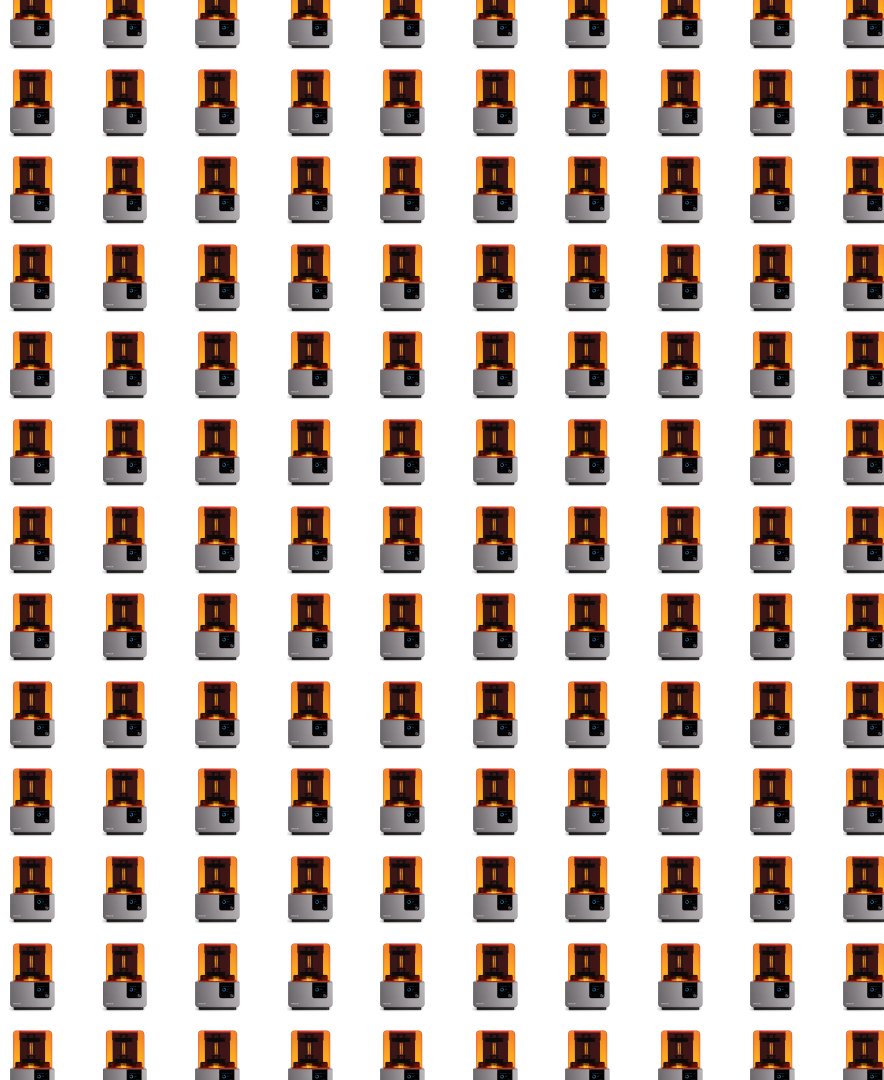


- Customer Care - Pro Services Europe
- Giving Onsite Trainings and Workshops in Berlin
- Previously: Reviews & Trainings of 3DP technologies at iGo3D









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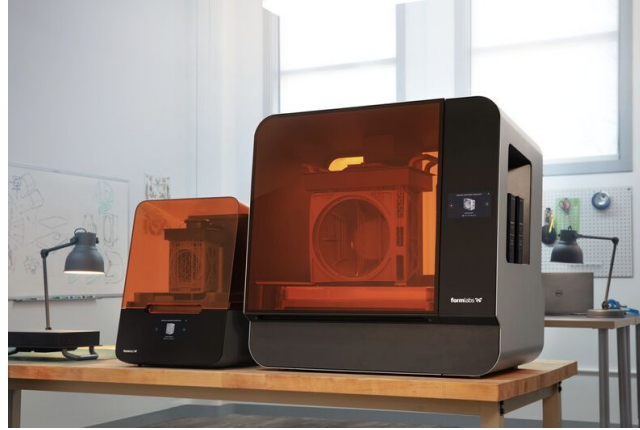
# We make professional SLA technology accessible.

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3dsystems.creativetools.se

low cost



Industrial quality on the desktop

Free software, updated regularly

Wide materials availability

Affordable price point



high performance & detail





**500+** people



**4** offices

Boston, Berlin, Tokyo, Shenzhen



**3** factories

USA, China, Hungary



**150+** engineers and scientists

Many of the world's experts in 3D printing, materials science, SLA, and SLS



**\$1B Valuation and 50,000+** printers sold  
in **40+** countries





**Form 3**



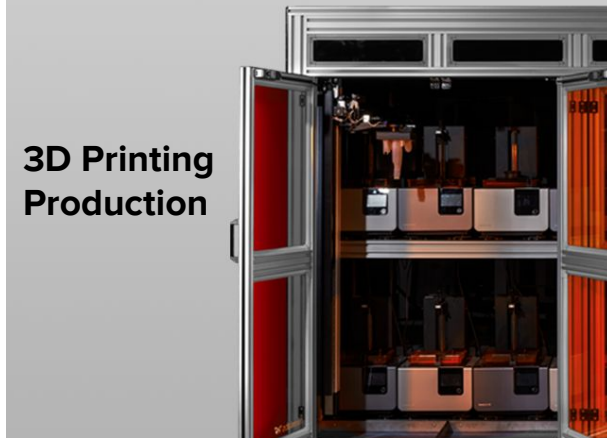
**Form 3L**



**SLA Materials**



**Fuse 1**



**3D Printing  
Production**



**Form Wash + Form Cure**

# SLA Material Library

## DENTAL RESINS



Dental SG



Model



LT Clear



Denture

## ENGINEERING RESINS



Tough



Durable



Flexible



High Temp



Grey Pro



Rigid



Elastic

## JEWELRY AND CERAMIC RESINS



Castable



Castable Wax



Ceramic

## STANDARD RESINS



Black



Grey



White



Clear



Color



Draft

# Applications

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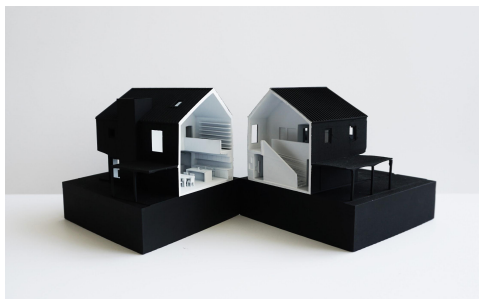
Product Design / Prototyping



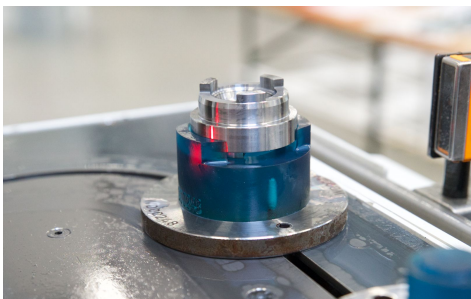
Jewelry



Dentistry



Architecture



Rapid manufacturing



Art & Entertainment

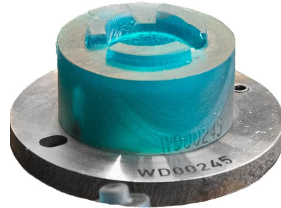
# The path to production

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Rapid prototyping



Jigs and Fixtures



Small scale production



Mass customization



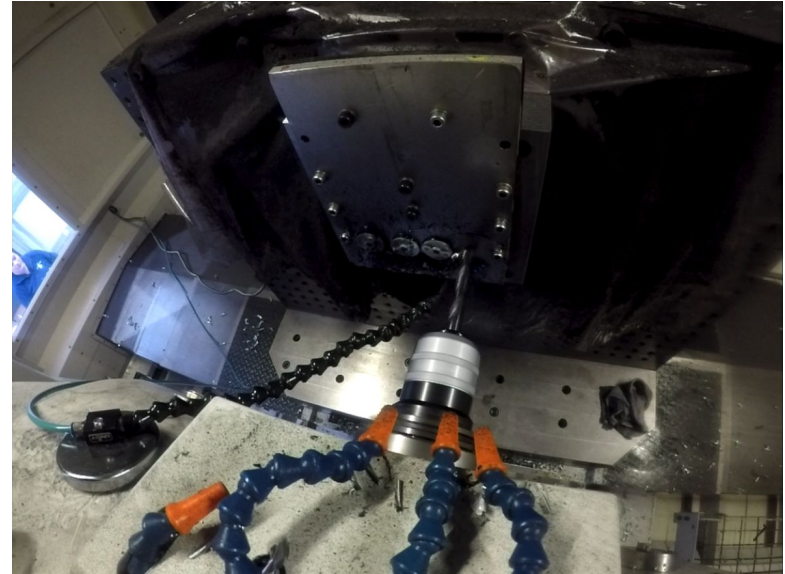




# High Precision Jigs and Fixtures - Standard Resins

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**AMRC** 3D printed 500 protective caps in two days to prevent cross-contamination during drilling trials for **Airbus**

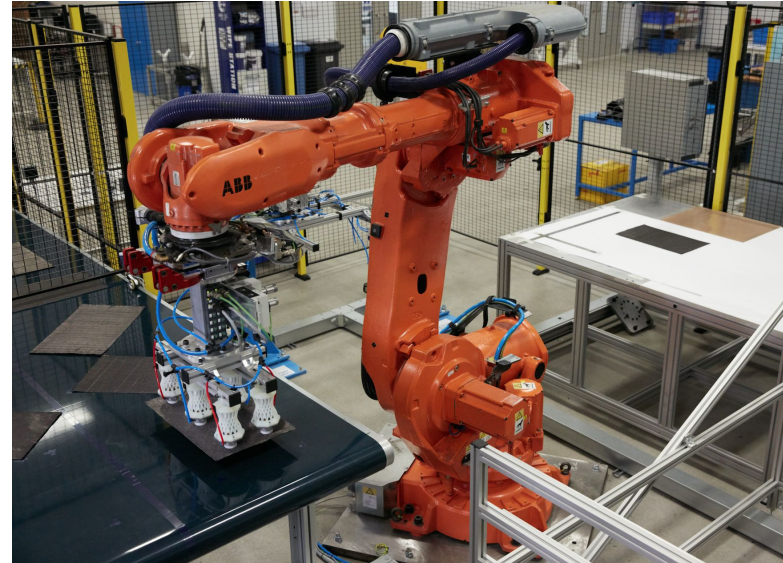




# High Precision Jigs and Fixtures - Durable Resin

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**AMRC** 3D printed grippers that have both the stiffness and flexibility required to reliably move carbon fiber plies

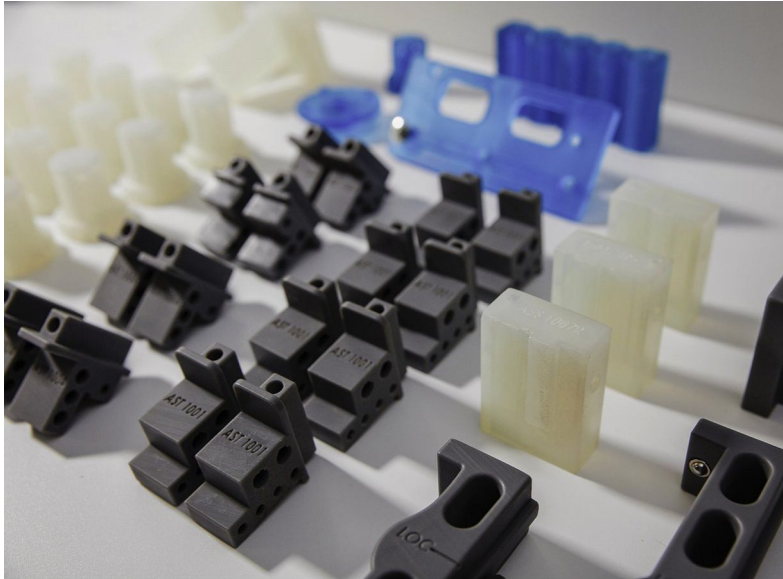




# High Precision Jigs and Fixtures - Standard and Engineering Resins

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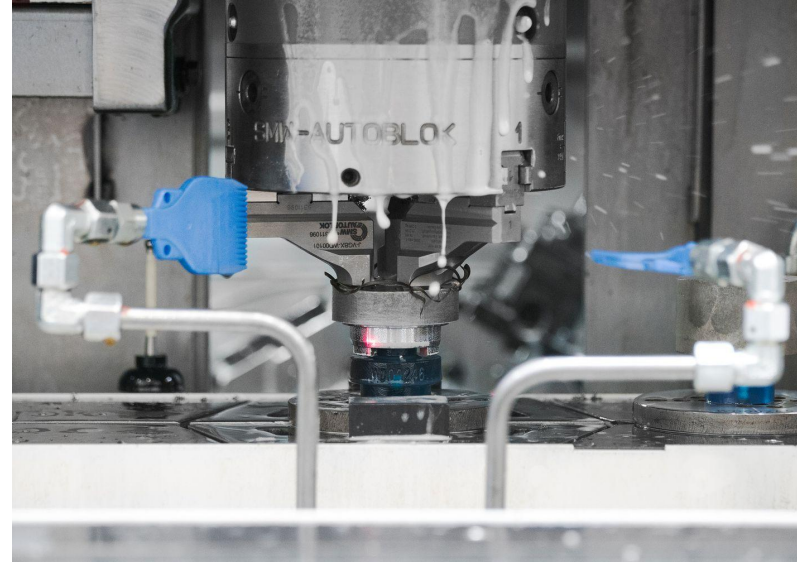
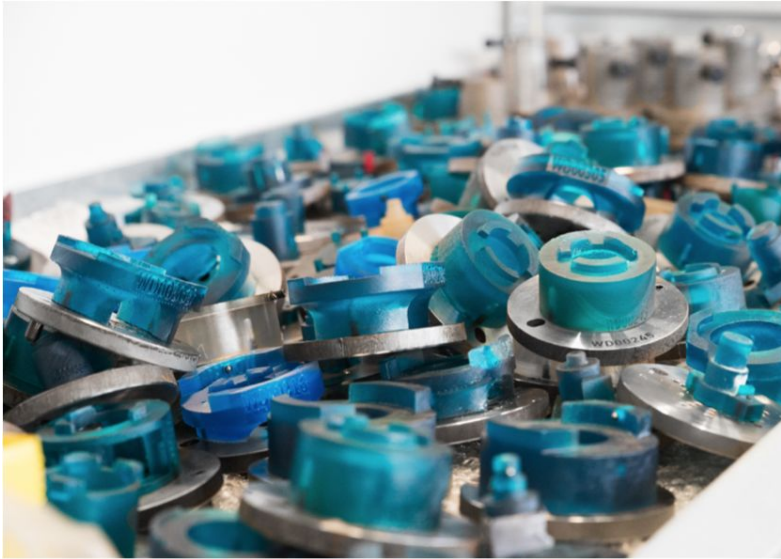
**Ashley Furniture** printed over 700 parts on their factory floor, to boost efficiency from assembly to fabrication



# High Precision Jigs and Fixtures - Tough Resin

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By 3D printing custom jigs with the Form 2, **Pankl** reduced production costs by 80-90%, and lead time by 90%

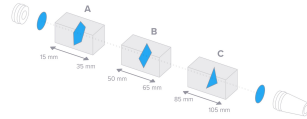


# Formlabs Collaborative R&D Program



## Discovery

- Machines
- Training
- Workshop



## Project

- Material
- Application
- Demo
- Study



## Collaboration

R&D effort to bring an opportunity to market readiness



## Implementation

Consulting and services to implement technology





razor  
maker™  
powered by **Gillette**









Thank you for your attention!

Jakob Dobberow  
[jakob@formlabs.com](mailto:jakob@formlabs.com)